KAYSUN

Catalogue 2023
HVAC systems

Kaysun
by frigicoll

Kaysun
by frigicoll

Inspiration, Innovation, Evolution

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Climate control and energy catalogue **May 2023**

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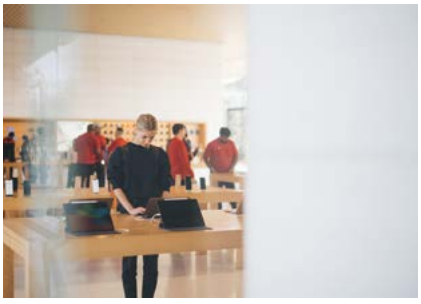

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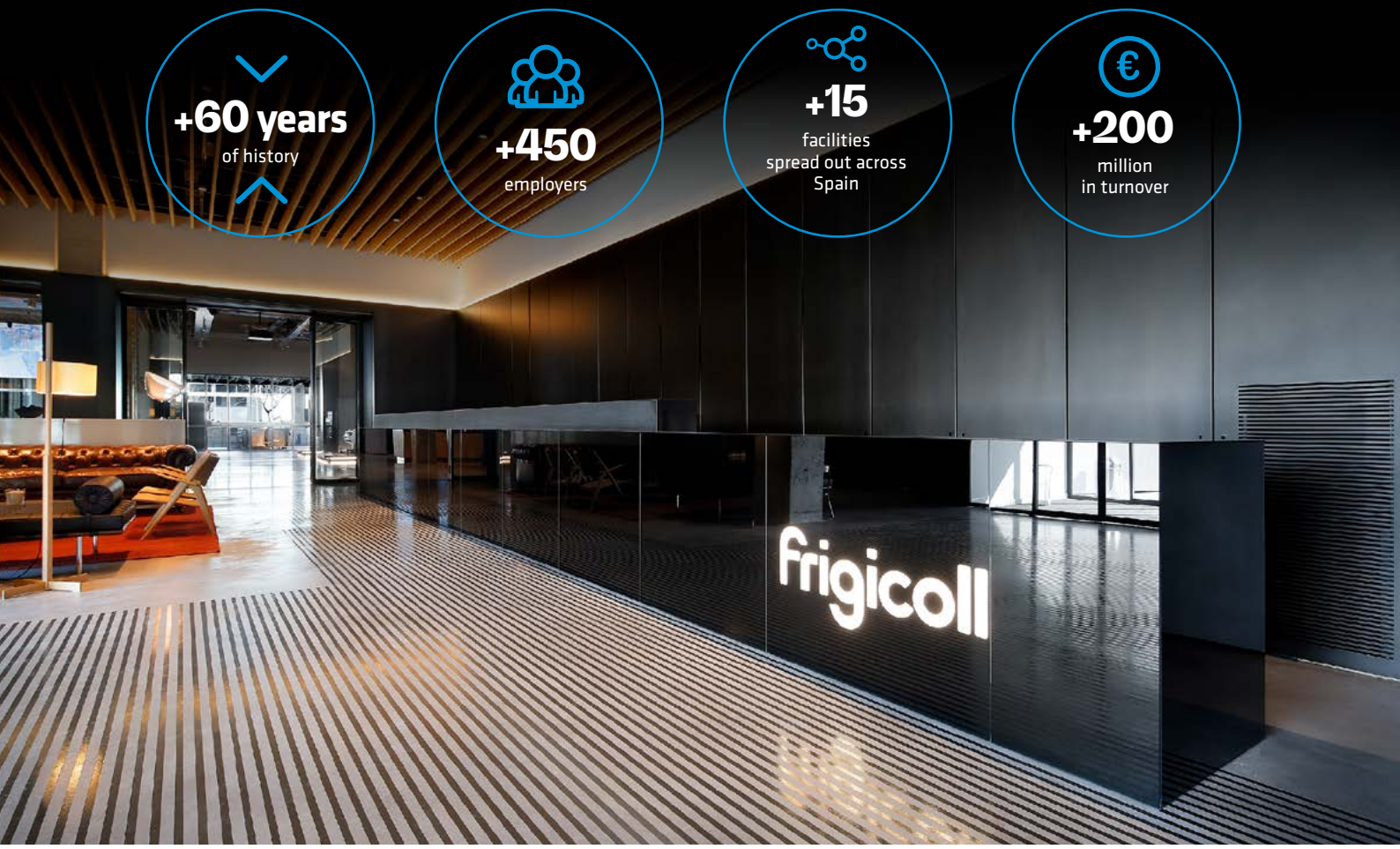


This is our story

1957
Fernando Coll Soms began his operations in the automobile sector as an importer and distributor of spare parts and accessories. In the 1960s, he added air conditioning systems and, later, refigeration equipment for transport to his repertoire.

1967
Fernando Coll Soms, S.A. is founded. The company became a distributor of the Liebherr brand.

1969
We opened our first office in Madrid. This period was characterised by a broad vision of the needs of the market and the subsequent diversification of products.

1970
The company started production of refrigeration units for transport, becoming the only Spanish manufacturer engaged in this activity.

1975
The name of the company was changed to Frigicoll, S.A.

1982
The company became a distributor of Thermo King in Spain.

1985
Joint venture created with Thermo King.

1987
The climate control business was created.

1988
A new branch is opened on the Canary Islands.

1996
We consolidated ourt position, opeming opening two new subsidiaries in Murcia and Valencia.

2001
Relocation of our headquarters from Madrid to the municipality of Coslada. In this way, we expanded our presence and positioneoutselves as pioneers and leaders in the Spanish market for high-tech products and first-rate solutions.

Frigicoll

Who we are

Frigicoll is a family-owned Spanish company that has been in operation for more than 60 years and is a pioneer in the introduction of technological solutions of leading global brands in various sectors of industry.
At Frigicoll we undertake comprehensive projects, supplying machinery to the air conditioning, energy, transportation, food and catering and refrigeration sectors, as well as to the household appliances sector.

Our values

Our whole history has been notable for our contribution to the market: the best quality of product, trust, proximity and excellence in customer service and an ongoing quest for improvement and innovation, attributes that have made us leaders in the market. With a long record of providing premkum integrated solutions, we face the future with the desire to keep searching for new, sustainable technological solutions.

CSR

Corporate social responsibility is one of the fundamental pillars of Frigicoll, carrying out actions based on the growth and social commitment of its employees and actions that help create a better, fairer and more sustainable world.

2002-2011

We started up subsidiaries of the Frigicoll group in Sevilla, Lugo, Madrid Sur, Cádiz and Barcelona Norte in the area of refrigeration for transport, as well as Ecliman, a manufacturer of refirgeration systrems designed to improve energy efficiency and environmental protection.

2004

We created Kaysun, our brand that specialises in the industrial segment and residential segmentwitn a very clear idea: to transfer all of the experience in products and services at the compny to the development of this line of business.

2012

We boosted the central zone with the refurbishment and development of the installations in Madrid (Coslada) and inaugurated the logistics centre in Vila-Rodona.

2015

We completed construction of our office in the south of Madrid (Getafe) so that it, together with Coslada, can provide clients with access to our service bases located in the centre.

2017

We inaugurate our new headquarters in Barcelona and also The Art of Living Frigicoll in Madrid to exhibit our advanced household appliances.

We reach an agreement with Midea, a household appliances brand, for an exclusive distribution of air conditioners in Spain.

2019

Frigicoll and Midea reach an agreement for Midea air conditioners distribution in France. Frigicoll France is established.

We inaugurate our second showroom, The Art of Living Frigicoll, in Barcelona.

We reached an agreement with Clivet for the exclusive distribution in the Spanish market of the entire product range.

2020

Midea has signed an agreement with Frigicoll to distribute household appliances in Spain.

We have opened AKD Midea, the new technical training centre for professionals in the air conditioning sector.

2022

New warehouse management software.

Amazon sales channel launch.

Frigicoll and Midea close an agreement for the distribution of Small Appliance in Spain.

Business units

Transport

Frigicoll offers refrigeration systems for the transportation and distribution of perishable products, climate control for coaches and buses, refrigerated mobile containers and solutions for the transportation of pharmaceutical products. It holds the official concession for the Thermoking brand in Spain and Portugal and offers technical support through a network of its own workshops and associated services that covers the whole of Spain, with ongoing service available 24 hours a day, 365 days a year.

THERMO KING

Inventor of the refrigeration system for transport.

FRIGOBLOCK

The green solution.

COLDTAINER

A pioneer in refrigerated mobile containers.

Household appliances

Frigicoll offers all equipment for high-end household cooking through the Liebherr, De Dietrich and Falmec brands, leaders in refrigeration, cooking and vacuuming. The three brands are a perfect alliance of design, quality and technology, turning each kitchen into a unique space and guaranteeing the best services for the client.

LIEBHERR

More than 60 years as leader in the world of cold.

De Dietrich

Cooking experts since 1684.

falmec

The most silent extractor hoods in the market (NRS technology).

Midea

Leader in the household appliances and air conditioning, positioned in the Top 500 ranking of Forbes.

HVAC systems

In Spain and France, Frigicoll has an alliance with Midea, a world leader in air treatment equipment*, to offer integrated climate control projects suitable for all types of installations, from the residential range to the industrial range. Frigicoll is also present in leading projects worldwide with its own brand, Kaysun, with which it has experienced rapid expansion overseas.

* Source: Euromonitor International (Shanghai) Limited; Consumer Appliances 23ed retail volume sales in units, 2022 data.

Midea

The world's nº 1 manufacturer of HVAC products*

CLIVET A Group Company of Midea

Experts in chillers, heat pumps, rooftops, primary air, water-air heat pumps and exclusive systems for residential.

Kaysun

Great versatility of equipment and advanced technological innovation.

Hospitality and Refrigeration

We supply high quality machinery with cutting-edge technology for the exhibition and storage of perishable products as well as professional kitchen equipment for the catering sector.

Plus the following brands: ADVENTYS, FIREX, MORETTI FORNI, SILKO, MENUMASTER Commercial, hiber, ambach

Hotels

LAINOX

The first oven with a cloud WiFi connection (Lainox Naboo).

COMENDA

An internal energy cycle that reduces detergent, water and electricity consumption by 50%.

LIEBHERR

Strict temperature and moisture control in laboratory coolers and reliability in gastronomy.

Refrigeration

frigicoll

Complete range of commercial refrigeration solutions.

DORIN

Complete range of high quality refrigeration compressors.

LIEBHERR

Specialized furniture for supermarkets, with R-290 refrigerant.

Spare Parts

Frigicoll also has a spare parts business, the aim of which is to provide the best possible service with delivery within 24h and specialist advice and service for each product over the phone, so as to protect the prestige and excellence of the products represented.

Frigicoll spare parts

- Automated logistics warehouse of 2,500m^2.
- 30,000 parts in stock.
- + 200 shipments daily.
- + 400,000 delivered items per year.

After-sales service

To ensure the quality of service at all stages of its value chain, Frigicoll has a highly specialised after-sales service area to foster the agile and effective resolution of any incidents that may arise.

Frigicoll after-sales service

- ISO 9001 and ISO 14001.
- Over 170 technical asistance points across the whole of the mainland, the Canary Islands and Portugal, as well as 11 service centres.
- Uninterrupted service all year round (24/7 in the transport unit).

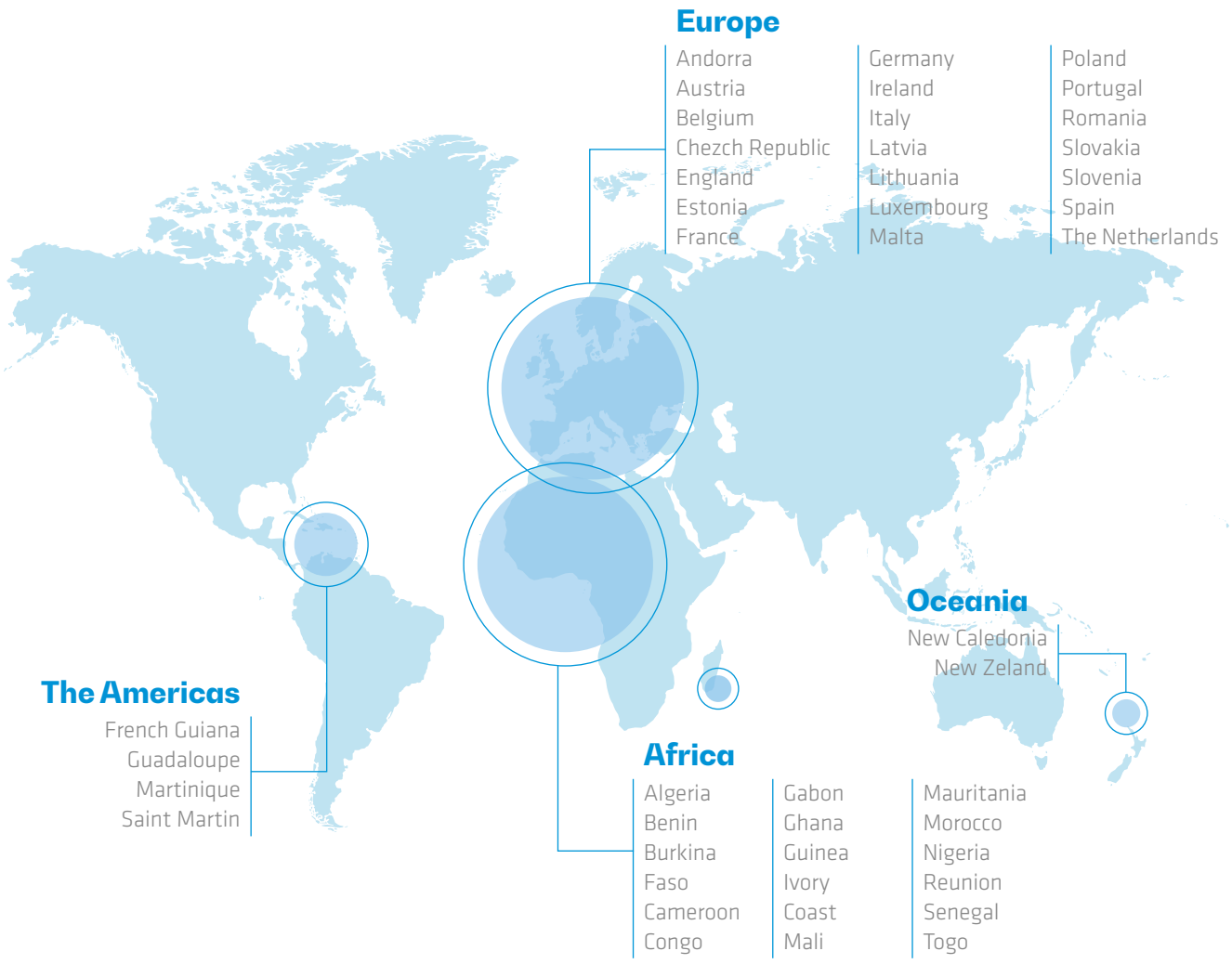
“A well-established Team”

Over more than 60 years, Frigicoll has worked at all times in collaboration with the most reputable brands in the different business units that comprise the company. Our technical team has combined, for each and every project, the premium qualities of our equipment with its professional experience to achieve the best outcomes. Today we complete key installations, noteworthy due to both the technological prowess of their solutions and their social importance.

In the HVAC Business Unit, we are proud to apply our first-hand knowledge, acquired from our long history and the best professionals, to the continual development of our own brand, Kaysun, which grows more established every day with a strong national and international plan. We have a clear goal: to continue providing the best residential and industrial solutions with comprehensive offerings underpinned by a constantly evolving and diverse range of products. That is why we remain loyal to our brand's philosophy – a balance between technology, efficiency, cost and warranty.

We believe that the best way to explain to you why Kaysun is rising to the top in the sector is to invite you to experience our work first hand.

Thank you for joining us.
Your trust is our guide.



“Ten reasons why we stand out”

1 The Frigicoll guarantee

Frigicoll is known for its premium products and its broad experience in excellent after-sales services. KAYSUN, the company’s own brand, was developed with the standards for quality and technological innovation that have always set us apart.

2 Maximum reliability of our equipment

We guarantee that our units will have a long service life, thanks to top-quality materials. This ensure that **the need to make use** of their warranties is reduced to a minimum.

3 ISO 9001 / ISO 14001

The quality of our products and environment benefits are two key pillars for KAYSUN. We are proud to have achieved **ISO 9001** and **ISO 14001**, under the seal of Frigicoll.

4 Wide range

We offer **comprehensive solutions for any facility** thanks to the diversity of our product ranges. From residential split systems to the most complex water terminal units, and including air curtains, recovery systems, VRFs, chillers, solar and domestic hot water units.

5 Comprehensive projects

Our team of expert technicians carries out HVCA and ventilation comprehensive specific projects for every single customer, which allows our company to be able to adapt to any space and need. A personalised advice complements this service, thus ensuring the correct performance of our installation works.

6 Cutting-edge technology

Our forward-looking approach goes hand-in-hand with the incorporation of the latest technology in all of our equipment. We include features that improve everything from energy consumption to practicality and comfort, as in the case of the built-in **motorised panel** used in the cassettes.

7 Smart control

Our smart control **devices**, allow us to offer comfort and well-being in any facility. The K01-WIFI device is the first smart solution for our units, providing the option of programming and managing air conditioning units inside and outside your home.

8 Committed to the environment

Our equipment is manufactured almost entirely **from recyclable materials**. We have reduced consumption as far as possible in STANDBY mode and have improved the energy efficiency of units working at full capacity, resulting in energy savings for facilities.

9 Excellent after-sales service

We **work to solve all incidents as quickly as possible**, leaving our customers completely satisfied with our after-sales service. We have a team of expert professionals working for you.

10 The best management of spare parts in the sector

We understand the key role of air-conditioning systems play in our facilities, **and we offer unbeatable replacement services**. Our commitment is absolute and we offer immediate solutions.

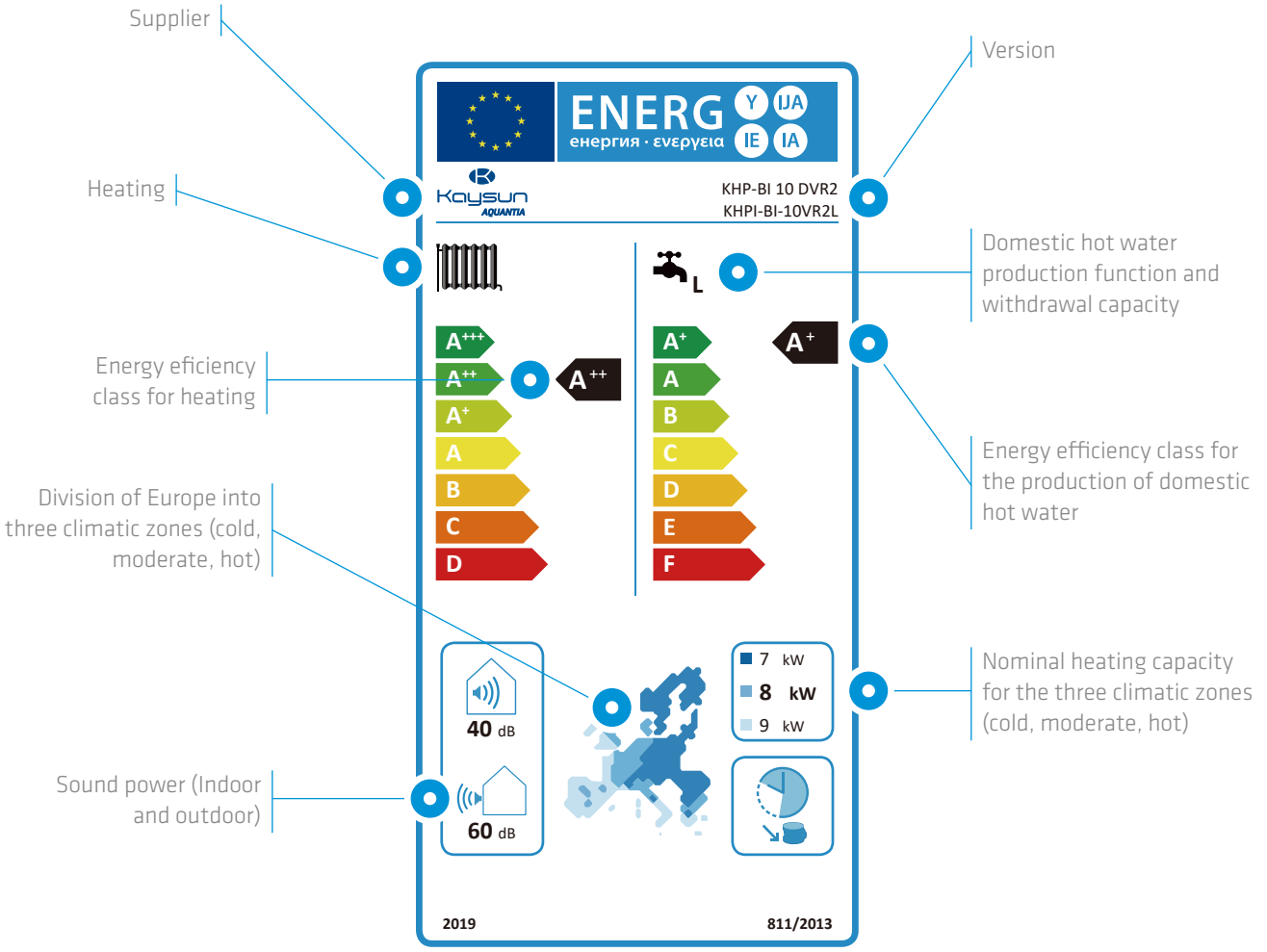
ErP - Energy Related Products

The Delegated Regulations on ErPs (Energy-related Products) came into force on 26 September 2015 and are aimed at reducing energy consumption and supporting the most efficient solutions.

The regulations apply to heat generators used to heat rooms, appliances for domestic hot water production and systems consisting of a combination of several elements:

- All appliances with rated heating capacity up to 400 kW and boilers up to 2000 litres must comply with the requirements for environmentally compatible design, also based on minimum seasonal energy efficiency values;
- Ony appliances with heating capacity up to 70 kW and boilers up to 500 litres must also comply with maximum noise level values (for heat pumps) and energy labelling.

Kaysun's specialised systems considerably exceed the strict requirements of these directives.



PRODUCT LABEL

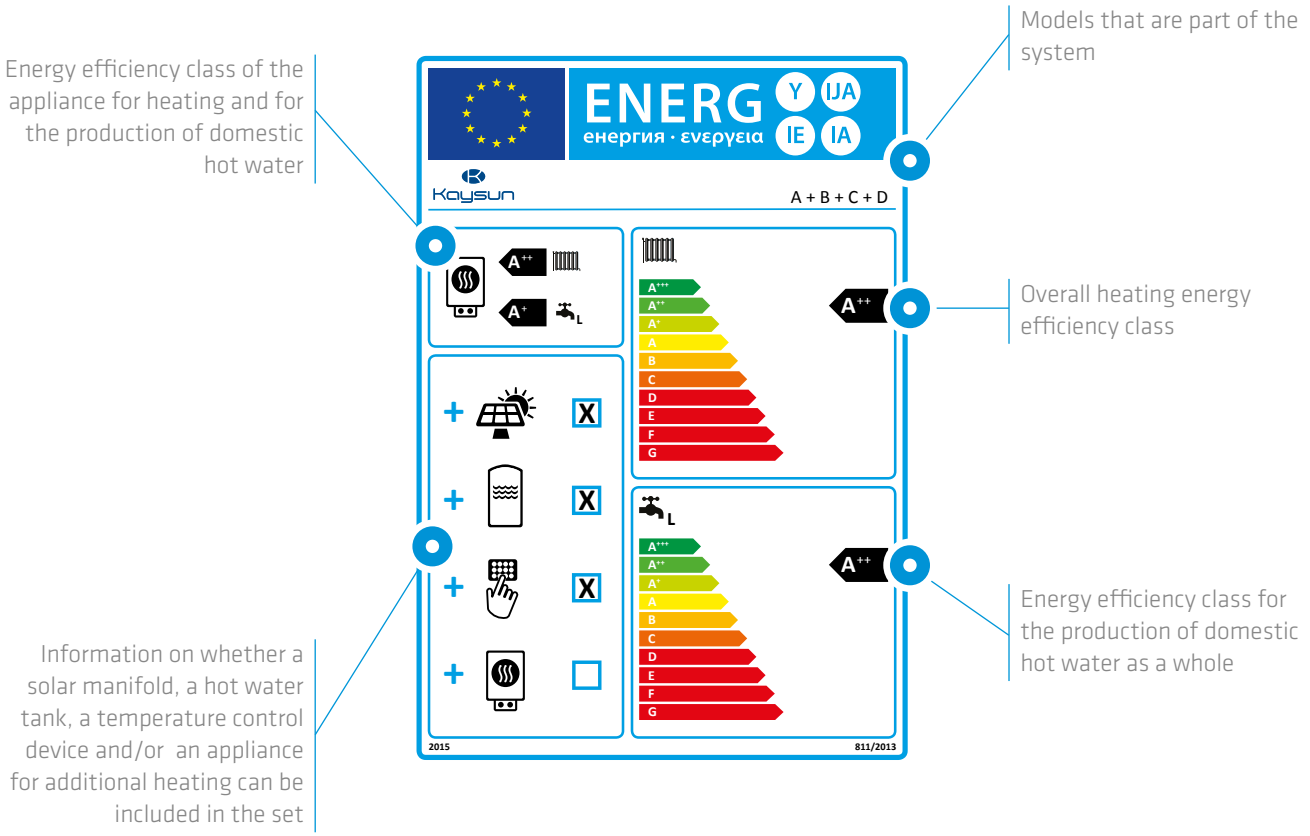
It indicates the seasonal energy efficiency of a product according to a scale ranging frorn A+++ to D: it distinguishes heating efficiency from heating for the production of domestic hot water (DHW), reporting both in the case of products that can provide both services.

It also reports other useful information such as capacity and consumption in the various climate zones, noise levels, etc.

SYSTEM LABEL

Indicates the energy eficiency for the installed system.
A system is the set of single products. in any combination, operating as a whole.
For instance. a heat pump, a boiler, a thermal solar system and electronic control for the system: if they work as a single system, their energy performance can be calculated as a combinaton of the individual components.

Kaysun's complete system approach. which is based on the energy benefits of controlled mechanical ventilation with thermodynamic recovery and control over the entire system, allows for higher seasonal efficiency levels compared to those required by current directives.



Keymark

KEYMARK is a recognized brand in many European countries for providing incentives for the installation of heat pumps for heating and the production of sanitary hot water.

Countries that recognize the brand and products certificates are available at https://keymark.eu/en/products/heatpumps/heat-pumps

Eurovent

Kaysun/Frigicoll participates in Certification programs EUROVENT for Residential, Fancoils, Chillers and "VRF". Products included are listed in the EUROVENT guide of certified products and on the website www.eurovent-certification.com.

The schedules apply to chillers and heat pumps up to the limits determined by the purpose of each schedule.

Suite

Residential Product Range

		kW	2.0	2.6	2.8	3.5	4.2	4.8	5.2	6.2	7.1	7.8	8.0	10.5	12.0	14.0	16.0
SUITE 1X1	R-290	 PORTABLE				■											
	R-32	 CASUAL		■		■			■		■						
	R-32	 PRODIGY PRO NEW		■		■			■		■						
	R-32	 ONNIX 2.0 NEW		■		■			■								
	R-32	 DOUBLE FLOW CONSOLE				■		■									
MULTISYSTEM / MULTISPLIT	R-32	 CASUAL	■	■		■			■		■						
	R-32	 PRODIGY PRO NEW		■		■			■		■						
	R-32	 ONNIX 2.0 NEW		■		■			■								
	R-32	 CASSETTE		■		■			■		■						
	R-32	 DUCTS				■			■		■						
	R-32	 DOUBLE FLOW CONSOLE				■		■									
	R-32	 OUTDOOR					2x		2x	3x		3x	4x	4x	5x		

Aquatix

Heat Pumps Range

	kW	4	5	6	7	8	9	10	12	14	16
R-32  KHPIS-BI PRO AQUANTIA BIBLOC INTEGRATED	SINGLE-PHASE L	■		■		■		■			
	SINGLE-PHASE XL	■		■		■		■	■	■	■
	THREE-PHASE XL									■	■

	kW	4	5	6	7	8	9	10	12	14	16
R-32  KHPMS-BI PRO AQUANTIA BIBLOC WALL-MOUNTED	SINGLE-PHASE	■		■		■		■	■	■	■
	THREE-PHASE									■	■

	kW	4	5	6	7	8	9	10	12	14	16
R-32  KHPS-MO PRO AQUANTIA MONOBLOC	SINGLE-PHASE	■		■		■		■	■	■	■
	THREE-PHASE								■	■	■

	kW	18	22	26	30
R-32  KHPS-MOPROHP AQUANTIA MONOBLOC	THREE-PHASE	■	■	■	■

	kW	4	5	6	7	8	9	10	12	14	16
R-32  KHHP-BI KAYSUN'S HYBRID SOLUTION	SINGLE-PHASE					■					

	L		270		745	
 DOMESTIC HOT WATER TANKS	TANKS BSX		■		■	

	L	150	200	250	300	350
 COMPAK DHW HEAT PUMPS (with Solar Coil)			■		■	

	kW	7	9	10	12	14	16	18
 SWIMMING POOL HP KSWP		■	■		■		■	■

Zen
Commercial Range

		kW	2.6	3.5	5.2	7.1	9.0	10.5	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0	56.0
1X1 SYSTEMS	R-32	DUCTS	HORIZONTAL	■	■	■	■	■	■	■	■						
			VERTICAL	■		■		■			■						
	R-32	CASSETTE 600X600		■	■												
	R-32	SUPERSLIM CASSETTE 840x840				■	■	■	■	■	■						
	R-32	FLOOR / CEILING			■	■	■	■	■	■	■						
TWINS	R-32	SUPERSLIM CASSETTE 840x840								■	■						
	R-32	FLOOR / CEILING						■		■							
	R-32	DUCTS				■		■		■	■						

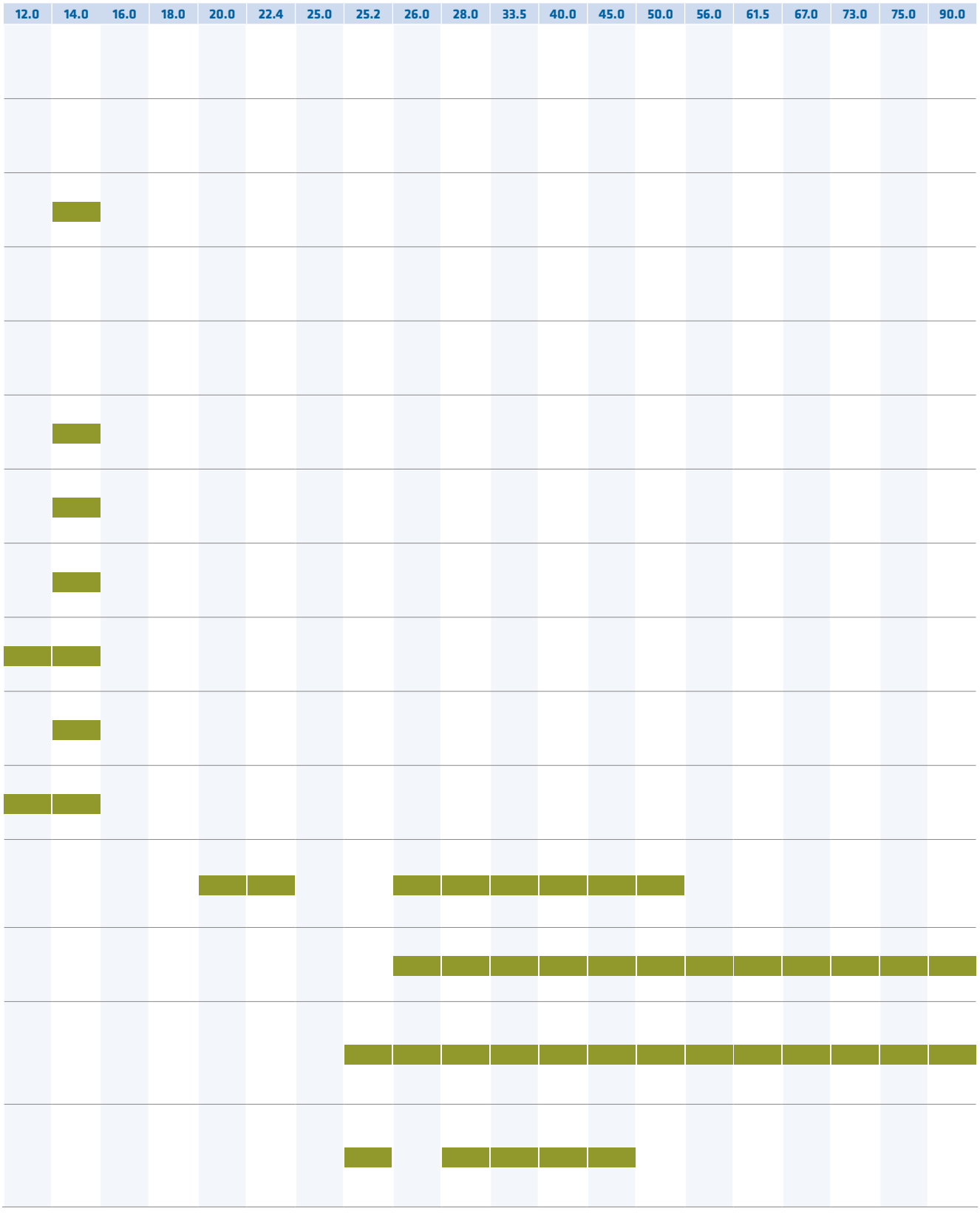
Zen High Capacity

Commercial Range

kW	2.6	3.5	5.2	7.1	9.0	10.5	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0	56.0
R-410A  FRONT AIR DISCHARGE											■	■			
R-410A  FRONT AIR DISCHARGE										■	■	■	■	■	
R-410A  TOP AIR DISCHARGE												■	■	■	■

Amazon
Industrial VRF Range

			kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2
INDOOR UNITS			WALL-MOUNTED	■	■	■	■	■	■		■			
			FLOOR STANDING EXPOSED/ CONCEALED		■		■		■					
			CEILING/FLOOR						■			■		
			ONE WAY CASSETTE		■		■			■				
			CASSETTE ART FLUX 360° 600X600	■	■	■	■	■						
			CASSETTE ART FLUX 360° 840X840						■	■	■		■	■
			DUCTS	■	■	■	■	■	■	■	■	■		■
			HIGH CAPACITY DUCTS							■		■		■
			KAHU		■	■	■	■	■	■	■	■	■	■
			HIGH TEMPERATURE HYDRAULIC MODULE											
OUTDOOR UNITS	2 PIPES		MINI AMAZON								■		■	
			AMAZON UNITARIO III FRONT AIR DISCHARGE											
			AMAZON UNITARIO TOP AIR DISCHARGE											
			AMAZON V											
	3 PIPES		AMAZON IV HR											


12.0
14.0
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22.4
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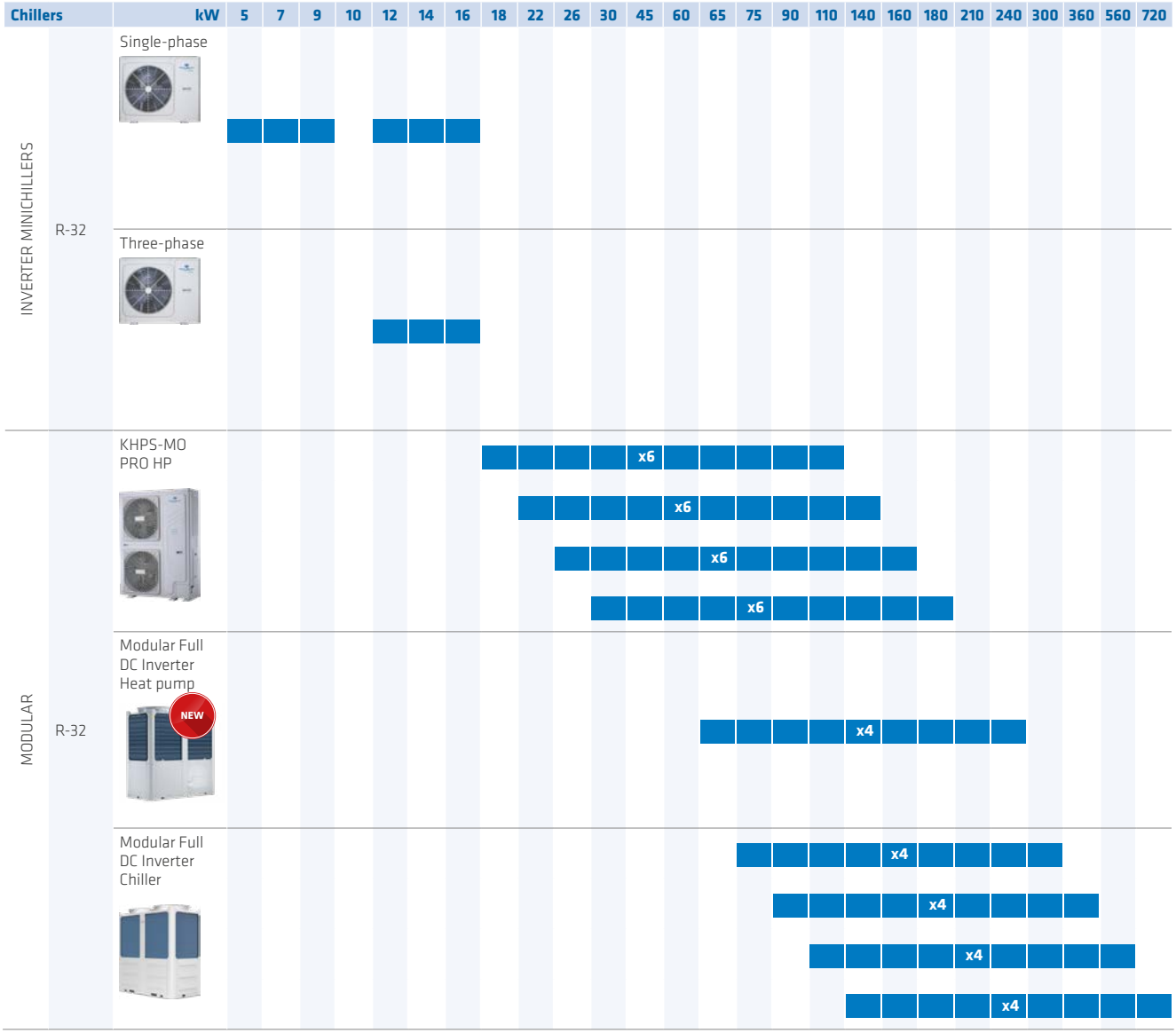
56.0
61.5
67.0
73.0
75.0
90.0

Nexus

Chillers Product Range



Fancoils

Water Terminal Units Product Range

Indoor Units (m³/h)	460	600	800	1000	1200	1400	1600	1800	2000
CEILING/FLOOR 2nd GEN. 2 PIPES									
 CASED	■	■	■			■			
 UNCASED	■	■	■			■			

Indoor Units (m³/h)	370	490	540	600	680	750	780	980	1500
WALL MOUNTED 2 PIPES									
		■			■			■	

Indoor Units (m³/h)	370	490	540	600	680	750	780	980	1500
CASSETTE 600X600									
 2 PIPES			■				■		
 4 PIPES			■				■		

Indoor Units (m³/h)	340	510	600	680	730	1020	1175	1230	1360	1450	1530	1580	1700	1870	2380	3060
CASSETTE 840x840																
 2 PIPES							■				■			■		
 4 PIPES							■				■			■		

Indoor Units (m³/h)	340	510	600	680	730	1020	1175	1230	1360	1450	1530	1580	1700	1870	2130	2400	2700
DUCTS																	
 2 PIPES	■		■		■		■			■							
 4 PIPES	■	■		■		■		■									

Indoor Units (m³/h)	340	510	600	680	730	1020	1175	1230	1360	1450	1530	1580	1700	1870	2130	2400	2700
NEW DUCTS NEW																	
 2 PIPES		■				■	■	■				■			■		

Indoor Units (m³/h)	800	900	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
DUCTS NEW																
 2 PIPES	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
 4 PIPES	■	■	■	■	■	■	■	■	■	■	■	■	■			

Indoor Units (m³/h)	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3400	3800	4200	4600	5000
DUCTS NEW																
 2 PIPES	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
 4 PIPES	■	■	■	■	■	■	■	■	■	■	■	■	■			

IAQ
Indoor Air Quality

Air Purifiers (m²)	0	45	90
KPU - 350.1 	■		
KPU - 700.1 		■	

Heat Recovery Units (m³/h)	500	1000	1500	2000	3100
KRE 	■	■	■	■	
KRE DX 	■	■	■	■	■

Heat Recovery Units (m³/h)	500	1200	1400	2200	3200	4200
ERP PRO 	■	■	■	■	■	■
AZURE 	■	■	■	■	■	

Heat Recovery Units (m³/h)	1500	3000	4500	6000	9500	12000	15000
EVO R 	■	■	■	■	■	■	■

Air Handling Units (m³/h)	1000	65000
EVO-M 	■	■

Icons descriptions

ENERGY

A+ SCOP Classification of energy efficiency according to seasonal performance for heating.

A++ SCOP Classification of energy efficiency according to seasonal performance for heating.

A+ SEER Classification of energy efficiency according to seasonal performance for cooling.

A++ SEER Classification of energy efficiency according to seasonal performance for cooling.

A+++ SEER Classification of energy efficiency according to seasonal performance for cooling.

SCOP 4.0 The heat pump performance of a set of units exceeds SCOP 4.0.

SCOP 4.6 The heat pump performance of a set of units exceeds SCOP 4.6.

THERMAL SOLAR SUPPORT Units compatible with thermal solar support for a greater installation efficiency.

SMART GRID READY Units with Smart Grid technology, for a greater installation efficiency.

REFRIGERANT

R-134A REFRIGERANT The unit works with R-134A ecological refrigerant.

R-290 REFRIGERANT The unit works with R-290 ecological refrigerant.

R-32 REFRIGERANT The unit works with R-32 ecological refrigerant.

R-410A REFRIGERANT The unit works with R-410A ecological refrigerant.

TECHNOLOGY

DOMESTIC HOT WATER A system that produces domestic hot water and underfloor heating.

DC INVERTER COMPRESSOR This feature allows to regulate the power of the compressor, providing optimum control and extremely efficient operation.

CONDENSATION CONTROL Allows the system to refrigerate, even with low outdoor temperatures.

HYDRAULIC KIT A complete, built-in hydraulic kit.

K-ION Active bipolar ionization technology that neutralizes viruses and bacteria.

0-10V INPUT SIGNAL Unit compatible with 0-10V control systems.

CROSS FLOW RECOVERY The unit has a high efficiency cross flow recovery.

ROTARY RECOVERY The unit has a high efficiency rotary recovery.

COOLING AND HEATING The unit is equipped with air conditioning and a heat pump.

3D TECHNOLOGY Triple DC inverter technology that allows a more constant temperature, high energy saving and significant energy efficiency.

DC INVERTER EXTERNAL FAN The unit is fitted with a DC Inverter external fan.

DC INVERTER INTERNAL FAN The unit is fitted with a DC Inverter internal fan.

FREECOOLING The unit has a freecooling function.

DOUBLE STAGE FILTRATION The unit has a pre-filter and discharge filter.

PCO Photocatalytic oxidation.

GOLDEN FIN High durability treatment to reduce the impact of bad weather and aggressive external environments.

INSTALLATION AND SERVICE

DRAINAGE PUMP A system which is capable of removing condensate up to 750 mm.

TWO COMMUNICATION WIRES The system uses two shielded communication wires without polarity.

ADDRESSING The control system allows setting an address for indoor units inside the communication bus.

HERTZ The units can function at 50 or 60 Hz.

TWINS Connection system that allows the two indoor units to be combined with an outdoor unit, making installation easier and more economical.

OUTDOOR INSTALLATION Unit for outdoor installation.

INDOOR INSTALLATION Unit for indoor installation.

Icons descriptions

CONTROL

COMPATIBLE WITH AIRZONE Integration with Airzone control Systems

WiFi This unit can be controlled by a WiFi network through a smartphone application.

SMART HOME A feature that allows to control the air conditioning remotely with a smart phone.

MODBUS The unit has a Modbus output for communication with PC/ BMS.

CONFIGURATION VIA USB PORT The USB port allows you to configure the unit in seconds and carry out diagnostics in order to minimize start-up or maintenance time.

ON/OFF CONTACT The unit has an ON/OFF contact that offers the possibility of making a stop/start remotely.

COMFORT

8°C HEATING This feature keeps the temperature in the room from dropping below 8°C by turning on the unit automatically in heat mode until it reaches 17°C.

SELF-CLEANING A feature of the indoor unit which automatically cleans the machine's battery so as to continue providing fresh, purified air every day.

LOW SOUND LEVEL New technological advances have allowed the level of sound produced by the indoor units to be reduced by up to 20 dB.

REFRIGERANT CONTROL A sensor on the outdoor unit and an alarm on the indoor unit's display alert the user of the detection of a possible refrigerant leak.

SWITCH OFF DISPLAY This feature allows switching off the display of the indoor units, if necessary.

FOLLOW ME A feature which changes the operating mode based on the remote controlled temperature sensor with the aim of maintaining maximum comfort.

INTELLIGENT This feature allows changing the operation parameters of the unit and extracting operation data.

LED DISPLAY The indoor unit displays the information on a digital display panel.

ECO MODE A control feature which reduces consumption, offering high energy efficiency thanks to automatic temperature regulation.

NIGHT MODE A feature of the indoor unit which reduces the sound level during the night for a more comfortable sleep.

TURBO MODE This feature reaches the selected temperature within a very short time.

MUTE This feature allows permanently cancelling the indoor unit alarm beeper.

WEEKLY PROGRAMMER A control feature which schedules when the unit will turn on/shut off according to the day and time during the week.

SILENCE MODE A function of the indoor unit that reduces sound pressure using the lowest speed of the fans.

STAND BY The "standby mode" feature allows 80% energy saving with only 1W consumption by the LED display.

TOUCH SENSITIVE KEYS The keys of the remote control are touch sensitive.

INDEPENDENT BLADES The unit allows the 4 blades of the panel to be managed independently.

SOUND LEVEL REDUCTION POSSIBILITY By means of a 20mm sandwich panel we are able to reduce the sound level of medium and high pressure ducted fan coils.

AIR DISTRIBUTION

MULTIPLE AIR INLETS This unit is fitted with four air return inlets: upper inlet, lower inlet, right inlet and left inlet.

FRESH AIR SUPPLY "X %" of fresh air directly enters the indoor unit through an orifice.

AIR INTAKE The indoor unit has two possible air intakes: the upper and the rear intake.

AUTOMATIC ADJUSTMENT OF THE BLADES The unit has the capacity to automatically position the blades at the same angle that they were at when it was shut off the last time.

AIR OUTLET The unit has two air outlets: upper and lower.

AIR OUTLET 360° The indoor unit is capable of spreading a 360° air flow, thus providing high comfort and reaching all corners of the room.

CERTIFICATIONS

EUROVENT

KEYMARK

ErP Unit that complies with the European Parliament and Council of the European Union's Directive which establishes the ecological design requirements applicable to products that use energy.

DESIGN

COMPACT Advances in design have reduced the size of the indoor and outdoor units without overlooking any technological details.

MODULAR Can be combined with other units up to power "x", by connecting the inlet and outlet pipes between units.

SUPERSLIM The new Superslim cassette can be fitted into any space.

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www.kaysun.es

www.frigicoll.es

Suite

Residential Product Range

1x1. Presentation of the range

Suite 1x1

Portable

Units do not require installation; available in cool mode only. A climate control option without the need for installation.

Power kW 3.5

R-290 REFRIGERANT · FOLLOW ME · LED DISPLAY · NIGHT MODE · STAND BY · COMPACT

Casual

With an elegant and simple design, the main characteristic of the Kaysun Casual unit is its price/performance ratio. It incorporates all Kaysun technology, with the most affordable price point in the range.

Power kW 2.6 3.5 5.2 7.1

R-32 REFRIGERANT · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · GOLDEN FIN · HERTZ · SMART HOME · SELF-CLEANING · LED DISPLAY · ECO MODE · SILENCE MODE · STAND BY · AUTOMATIC ADJUSTMENT OF THE BLADES

Prodigy PRO

Kaysun Prodigy Pro wall unit arrives as the most efficient unit in the Suite range, with a A+++/A++ efficiency in ALL models (from 2,6 to 7,1kW). The definitive Split delivered to you by Kaysun.

Power kW 2.6 3.5 5.2 7.1

R-32 REFRIGERANT · CONDENSATION CONTROL · 3D TECHNOLOGY · SMART HOME · 8°C HEATING · LOW SOUND LEVEL · FOLLOW ME · INTELLIGENT · LED DISPLAY · ECO MODE · NIGHT MODE · TURBO MODE · MUTE · SILENCE MODE · STAND BY · AUTOMATIC ADJUSTMENT OF THE BLADES

Onnix 2.0

Our famous mirror effect Onnix has been completely updated and redesigned with many improvements. With its more refined finish than the previous model and improvements in features and comfort for the user, Onnix 2.0 is undoubtedly one of the best options for air conditioning and decorating your home with style.

Power kW 2.6 3.5 5.2

R-32 REFRIGERANT · CONDENSATION CONTROL · 3D TECHNOLOGY · SMART HOME · 8°C HEATING · LOW SOUND LEVEL · FOLLOW ME · INTELLIGENT · LED DISPLAY · ECO MODE · NIGHT MODE · TURBO MODE · MUTE · SILENCE MODE · STAND BY · AUTOMATIC ADJUSTMENT OF THE BLADES

Double Flow Console

The Double Flow Console has an elegant and compact design adaptation of any area to be air-conditioned. It is fitted with the latest technological features, thereby providing users with a high comfort level.

Power kW 3.5 5.0

R-32 REFRIGERANT · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · DC INVERTER INTERNAL FAN · HERTZ · SMART HOME · FOLLOW ME

Presentation of the range

Suite 1x1

	Casual	Prodigy Pro	Onnix 2.0
Suite 1x1	2.6 3.5 5.2 7.1	2.6 3.5 5.2 7.1	2.6 3.5 5.2
Multisystem Suite	2.0 2.6 3.5 5.2 7.1	2.6 3.5 5.2 7.1	2.6 3.5 5.2

7.1 kW units only compatible with multi outdoor groups 4 & 5.

Double flow console

Cassette

Duct

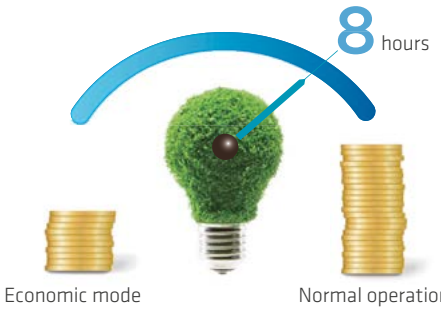
Wall-hung hydraulic kit

Double flow console	Cassette	Duct	Wall-hung hydraulic kit
3.5 5.0			
3.5 5.0	2.6 3.5 5.2 7.1	3.5 5.2 7.1	8

Suite 1x1
Residential Product Range

Introducing our 1x1 residential units range. Kaysun endeavors to offer the most complete range suitable for any type of aesthetic and requirement. Contributing to the maximum well-being of the user, at the vanguard of innovation and with a proposal that meets all of the requirements of the market and contains developments that constitute pioneering advances in the sector.

The residential range units comply with the ErP (energy-related products) directive of the EU, offering SCOP values from A to A+++. The brand wishes to consolidate its position in the market by offering products with a seasonal energy efficiency under heat mode that are even higher than 4.6 in SCOP for some of its models. Therefore, we not only observe the current directives on energy efficiency, but future directives as well.

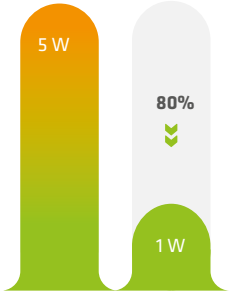


ECO mode

The system self-regulates based on changes in outdoor temperature and the energy requirements of the installation or home in order to provide the optimum results at all times.

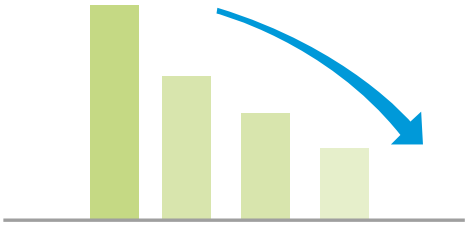
Golden Fin

Fin protection is important in all heat exchangers. The Golden Fin technology is more resistant to oxidation and corrosion than ordinary blue fins from traditional condensers. It can effectively prevent bacteria from breeding and spreading and withstand corrosive elements.



1 W is standby in mode

1x1 Kaysun units only consume 1 W/hour in standby mode. This consumption is up to 80% less than any other conventional units. This translates into great energy savings for the end user.

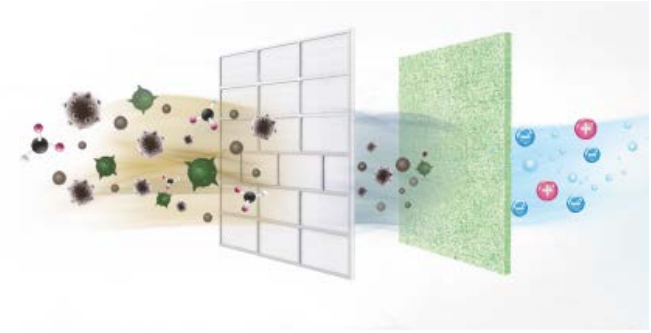


Low consumption equipment

Kaysun, in its search for efficiency, comfort and energy savings, only assembles components in its units that have the appropriate characteristics to achieve this goal. The main component is the Double Rotary DC Inverter Compressors to ensure minimum consumption and maximum performance.

Twin Rotary DC Inverter Compressor

Outdoor units of SUITE range have a Double Rotary DC Inverter Compressor (also known as Twin Rotary). Its design, with high-efficiency and reduced dimensions, reduces vibrations during operation and, consequently, the noise level of the outdoor unit. In addition, it allows greater regulation of capacity and comfort.



High-efficiency fan blades and air passage

Based on bionic principles, Kaysun's optimized fan blade design can effectively work against airflow resistance and reduce noise. Together with the optimised air passage, it delivers the same airflow volume with 30% less energy consumption.

Dual filter

Dual filtration system thoroughly eliminates harmful substances, providing fresh and clean air for you. The first density pre filter can effectively prevent airborne particles. The second active carbon filter traps dangerous gases and annoying odors.

WiFi

Optionally, it is possible to control Kaysun units through tablet or smartphone. With the installation of an USB adapter and through a simple configuration, the units can be remotely managed, with multiple options like a weekly scheduled.

R-32 refrigerant

R-32 is the evolution of traditional R-410A refrigerant, but with a lower global heating coefficient, and therefore, much more ecological. R-32 also achieves greater energy efficiency meaning a better machine performance and energy savings for the user.

Portable

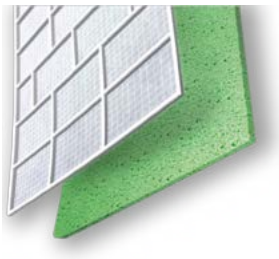
Thanks to its mobility and ease of transport, the Kaysun portable air conditioning unit guarantees comfort anywhere in the home. Units do not require installation; available in cooling mode only. A climate control option without any installation.

Kit for window included

Continuing along the lines of ease of use, the included kit can be fitted to different window sizes, so you don't have to worry about anything.

24-hour programmer

All units in the range have a 24-hour programmable timer. It allows you to program the equipment to turn on and off throughout the day.

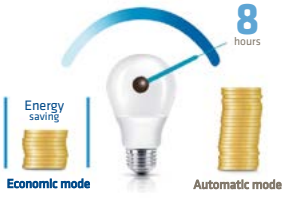


Dual filter

The indoor filter system allows the elimination of bacteria, viruses, allergens, dust and unpleasant odours.

Easy to transport

All the units have wheels so they can be easily transported.



Economy mode

With the Economy mode the unit can work with minimum consumption while maintaining the confort in every room.

KID-03
Standard

R-290 REFRIGERANT · FOLLOW ME · LED DISPLAY · NIGHT MODE · STAND BY · COMPACT

Model	KP-35 CP11
Cooling capacity rated; kW	3.5
Cooling input rated; W	1350
EER	2.6 - A
Air flow low / medium / high; m^3/h	355 / 370 / 420
Sound pressure low / medium / high; dB(A)	50.4 / 50.8 / 52
Sound power level; dB(A)	63
Width / Height / Depth; mm	467 / 765 / 397
Net weight; kg	32.5
Power supply; V/ph/Hz	220-240/1/50
Type refrigerant	R-290
Indoor ambient temperature for cooling min. / max.; °C	17 / 35

Cooling and heating capacity. Cooling and heating input. Energy efficiency: The energy coefficients are calculated under standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using an anechoic chamber at a distance of 1 m from the machine.

Casual

With a simple elegant design, the outstanding feature of the Kaysun Casual unit is its price/ performance ratio. It incorporates all Kaysun technology, with the most affordable price point in the range.

New 2,0kW model for Multi systems and redesigned 2,6 unit for 1x1

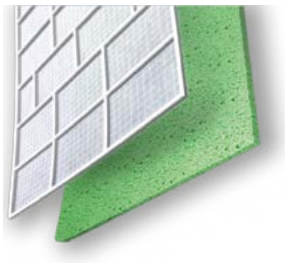
The design of the indoor unit KAY-CF 26 DR11.1 has got smaller and more compact. Moreover, the 2,0kW unit has been introduced to be used in multi systems, with the same smaller dimensions.

Golden Fin

Fin protection is important in all heat exchangers. The Golden Fin technology is more resistant to oxidation and corrosion than ordinary blue fins from traditional condensers. It can effectively prevent bacteria from breeding and spreading and withstand corrosive elements.

Reliable and durable

With refrigerant leakage detection, the system will stop operation automatically to ensure safety once the refrigerant leakage is detected. This feature, in addition to its insulated, foreproof electric control box, makes this unit a truly reliable, intelligent choice.



Dual filter

The first density pre filter can effectively prevent airborne particles. The second active carbon filter traps dangerous gases and annoying odors.

Smart Home

Possibility to control the unit from anywhere through the NetHOME Plus APP. Voice control is also available on Amazon Alexa and Google Home.

KID-05.3 S
Standard

R-32 REFRIGERANT · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · GOLDEN FIN · HERTZ · SMART HOME · SELF-CLEANING · LED DISPLAY · ECO MODE · SILENCE MODE · STAND BY · AUTOMATIC ADJUSTMENT OF THE BLADES

Set model	AKAY-C 26 DR11	AKAY-C 35 DR11	AKAY-C 52 DR11	AKAY-C 71 DR11
Set				
Outdoor unit	KAE-C 26 DR11	KAE-C 35 DR11	KAE-C 52 DR11	KAE-C 71 DR11
Indoor unit	KAY-CF 26 DR11.1	KAY-CF 35 DR11	KAY-CF 52 DR11	KAY-CF 71 DR11
Cooling capacity rated; kW	2.64	3.52	5.28	7.03
Cooling capacity min. / max.; kW	0.91 / 3.4	1.11 / 4.16	1.81 / 6.16	2.08 / 7.91
Heating capacity rated; kW	2.93	3.81	5.57	7.33
Heating capacity min. / max.; kW	0.82 / 3.37	1.08 / 4.22	1.29 / 6.74	1.61 / 7.91
Cooling input rated; W	800	1210	1550	2600
Cooling input min. / max.; W	100 / 1240	130 / 1580	140 / 2300	420 / 3150
Heating input rated; W	790	1090	1570	2400
Heating input min. / max.; W	120 / 1200	100 / 1680	220 / 2350	300 / 2750
SEER	6.2 - A++	6.1 - A++	7.4 - A++	6.1 - A++
SCOP	4 - A+	4 - A+	4 - A+	4 - A+
Communication wiring; mm^2	(4+T)x1,5	(4+T)x1,5	(4+T)x1,5	(4+T)x2,5
Outdoor unit				
Air flow,; m^3/h	1750	1800	2100	3500
Sound pressure; dB(A)	56	56	56	59
Sound power level; dB(A)	60	63	63	67
Width / Height / Depth; mm	720 / 495 / 270	720 / 495 / 270	805 / 554 / 330	890 / 673 / 342
Net weight; kg	23.2	23.2	32.7	42.9
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x1,5	(2+T)x1,5	(2+T)x1,5	(2+T)x2,5
Compressor type	Rotary	Rotary	Rotary	Rotary
Indoor unit				
Air flow low / medium / high; m^3/h	259 / 333 / 434	325 / 430 / 540	540 / 680 / 840	662 / 817 / 980
Sound pressure low / medium / high; dB(A)	25 / 31 / 38	25 / 34.5 / 40.5	26 / 36 / 42.5	36 / 40.5 / 45
Sound power level; dB(A)	50	55	56	59
Width / Height / Depth; mm	715 / 285 / 194	805 / 285 / 194	957 / 302 / 213	1040 / 327 / 220
Net weight; kg	7	7.6	10	12.3
Refrigerant				
Type refrigerant	R-32	R-32	R-32	R-32
Refrigerant charge; kg	0.55	0.55	1.08	1.42
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"
Piping height difference; m	25	25	30	50
Vertical piping max. length; m	10	10	20	25
Working range				
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 30	-15 / 30	-15 / 30

Cooling and heating capacity. Cooling and heating input. Energy efficiency: The energy coefficients are calculated under standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using an anechoic chamber at a distance of 1 m from the machine.
Supplementary charge: The initial charge of the machines is valid for the first 5 m (liquid line). A supplementary charge of 0.012 kg/m is required for greater distances per each additional metre.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 56

Prodigy PRO

NEW

Prodigy Pro wall unit arrives as the most efficient unit in the Suite range, with a A+++ cooling efficiency in ALL models (from 2,6 to 7,1kW). The definitive Split delivered to you by Kaysun.

Highest efficiency for the whole range

Are you tired of installing 5,2 and 7,1kW indoor units with A++ efficiency? Try out our Prodigy Pro where all the units achieve the maximum A+++ efficiency.

Up to 5cm to the ceiling

Due to the air intake's enlargement design, the unit works smoothly and with low noise being even very close to the ceiling (up to 5cm).

Multifunction board (Optional)

The unit can be controlled from a wired controller, or connected to a centralised controller, BMS, or external compatible controllers (as Airzone).

ECO Mode

This technology enables energy savings in Economic mode vs. Automatic mode.

Smart Home

Possibility to control the unit from anywhere through the NetHOME Plus APP. Voice control is also available on Amazon Alexa and Google Home.

KID-06
S**Standard**

R-32 REFRIGERANT · CONDENSATION CONTROL · 3D TECHNOLOGY · SMART HOME · 8°C HEATING · LOW SOUND LEVEL · FOLLOW ME · INTELLIGENT · LED DISPLAY · ECO MODE · NIGHT MODE · TURBO MODE · MUTE · SILENCE MODE · STAND BY · AUTOMATIC ADJUSTMENT OF THE BLADES

Set model	AKAY-P 26 DR10	AKAY-P 35 DR10	AKAY-P 52 DR10	AKAY-P 71 DR10
Set				
Outdoor unit	KAE-26 DR9	KAE-35 DR9	KAE-P 52 DR9	KAE-P 71 DR9
Indoor unit	KAY-P 26 DR10	KAY-P 35 DR10	KAY-P 52 DR10	KAY-P 71 DR10
Cooling capacity rated; kW	2,73	3,52	5,28	7,04
Cooling capacity min. / max.; kW	1,32 / 3,81	1,32 / 3,96	3,75 / 6,13	2,11 / 8,21
Heating capacity rated; kW	3,14	3,96	5,57	7,33
Heating capacity min. / max.; kW	1,32 / 3,96	0,88 / 4,55	2,58 / 6,77	1,55 / 8,21
Cooling input rated; W	619	925	1320	1760
Cooling input min. / max.; W	130 / 1200	130 / 1250	590 / 1780	420 / 3200
Heating input rated; W	681	990	1500	1980
Heating input min. / max.; W	120 / 1400	120 / 1450	940 / 1700	300 / 3100
SEER	9,5 - A+++	8,5 - A+++	8,5 - A+++	8,5 - A+++
SCOP	4,6 - A++	4,6 - A++	4,3 - A+	4,2 - A+
Communication wiring; mm^2	(4+T)x1,5	(4+T)x1,5	(4+T)x1,5	(4+T)x2,5
Outdoor unit				
Air flow,; m^3/h	2150	2200	3.500	3.500
Sound pressure; dB(A)	55	55	56	58,5
Sound power level; dB(A)	57	59	65	68
Width / Height / Depth; mm	765 / 555 / 303	765 / 555 / 303	890 / 673 / 342	890 / 673 / 342
Net weight; kg	26,4	26,4	38,8	45,6
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Max. intensity; A	10,5	10,5	13	19
Power wiring; mm^2	(2+T)x1,5	(2+T)x1,5	(2+T)x1,5	(2+T)x2,5
Compressor type	Rotary	Rotary	Rotary	Rotary
Indoor unit				
Air flow low / medium / high; m^3/h	280 / 360 / 530	290 / 380 / 560	400 / 580 / 685	379 / 724 / 1.092
Sound pressure silence; dB(A) (x1)	20,5	21	22	21
Sound pressure low / medium / high; dB(A)	21,5 / 32 / 40	22 / 34 / 41	23 / 35 / 41	33 / 40 / 44,5
Sound power level; dB(A)	55	55	59	65
Width / Height / Depth; mm	795 / 295 / 225	795 / 295 / 225	965 / 319 / 239	1.140 / 275 / 370
Net weight; kg	10,2	10,2	12,3	20
Refrigerant				
Type refrigerant	R-32	R-32	R-32	R-32
Refrigerant charge; kg	0,62	0,62	1,1	1,5
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"
Piping height difference; m	25	25	30	50
Vertical piping max. length; m	10	10	20	25
Working range				
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: The energy coefficients are calculated under standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using an anechoic chamber at a distance of 1 m from the machine.
Supplementary charge: The initial charge of the machines is valid for the first 5 m (liquid line). A supplementary charge of 0.012 kg/m is required for greater distances per each additional metre.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

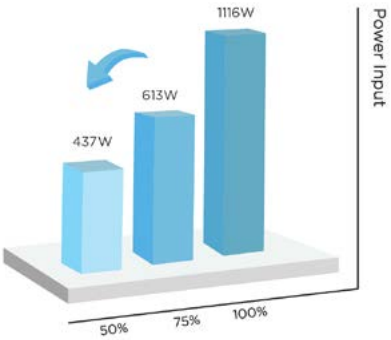
Onnix 2.0

NEW

The new Onnix 2.0 unit arrives in 2023 with many improvements over its predecessor Onnix. With the new refined mirror effect and its improved features, Onnix 2.0 is undoubtedly one of the best options for air conditioning and decorating your home with style.

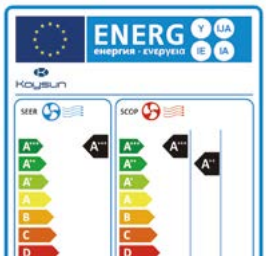
Immersive Cooling from Head to Toe

The new wind deflector design, with a 180° radius versus approximately 70° for a traditional split, provides complete HVAC coverage. The system will automatically adjust the angle of the louvers and the speed of the fan to quickly and evenly cool the entire room.



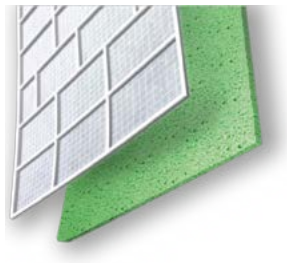
ECO and GEAR Mode

Onnix 2.0 include multiple modes in order to save energy.



Energy classification A+++

With an outstanding energy classification leader in the range, the unit provide an excellent air conditioning with great energy savings, due to its reduced consumption.



Dual filter

The first density pre filter can effectively prevent airborne particles. The second active carbon filter traps dangerous gases and annoying odors.

Smart Home

Possibility to control the unit from anywhere through the NetHOME Plus APP. Voice control is also available on Amazon Alexa and Google Home.

KID-05.4 S
Standard

R-32 REFRIGERANT · CONDENSATION CONTROL · 3D TECHNOLOGY · SMART HOME · 8°C HEATING · LOW SOUND LEVEL · FOLLOW ME · INTELLIGENT · LED DISPLAY · ECO MODE · NIGHT MODE · TURBO MODE · MUTE · SILENCE MODE · STAND BY · AUTOMATIC ADJUSTMENT OF THE BLADES

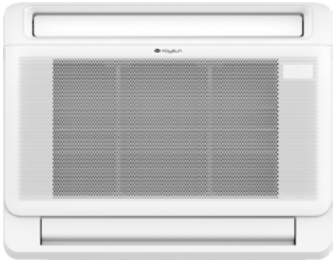
Set model	AKAY-D 26 DR10	AKAY-D 35 DR10	AKAY-D 52 DR10
Set			
Outdoor unit	KAE-S 26 DR9	KAE-S 35 DR9	KAE-S 52 DR9
Indoor unit	KAY-D 26 DR10	KAY-D 35 DR10	KAY-D 52 DR10
Cooling capacity rated; kW	2.64	3.52	5.28
Cooling capacity min. / max.; kW	1.03 / 3.22	1.38 / 4.31	3.39 / 5.9
Heating capacity rated; kW	2.93	3.81	5.57
Heating capacity min. / max.; kW	0.82 / 3.37	1.07 / 4.38	3.1 / 5.85
Cooling input rated; W	600	900	1600
Cooling input min. / max.; W	100 / 1260	130 / 1650	140 / 2300
Heating input rated; W	620	950	1680
Heating input min. / max.; W	110 / 1320	120 / 1500	220 / 2350
SEER	8.8 - A+++	8.5 - A+++	6.3 - A++
SCOP	4.6 - A++	4.6 - A++	4.1 - A+
Communication wiring; mm^2	(4+T)x1,5	(4+T)x1,5	(4+T)x1,5
Outdoor unit			
Air flow,; m^3/h	2200	2200	2100
Sound pressure; dB(A)	53.5	53.5	54.5
Sound power level; dB(A)	58	62	63
Width / Height / Depth; mm	765 / 555 / 303	765 / 555 / 303	805 / 554 / 330
Net weight; kg	26.4	26.4	33.5
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x1,5	(2+T)x1,5	(2+T)x1,5
Compressor type	Rotary	Rotary	Rotary
Indoor unit			
Air flow low / medium / high; m^3/h	425 / 515 / 700	425 / 515 / 700	430 / 530 / 750
Sound pressure low / medium / high; dB(A)	21.5 / 32.5 / 40	21.5 / 32.5 / 40	33.5 / 36.5 / 41.5
Sound power level; dB(A)	53	53	54
Width / Height / Depth; mm	920 / 321 / 211	920 / 321 / 211	920 / 321 / 211
Net weight; kg	11.3	11.3	11.3
Refrigerant			
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	0.7	0.7	1.10
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"
Piping height difference; m	25	25	30
Vertical piping max. length; m	10	10	20
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 30	-15 / 30	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: The energy coefficients are calculated under standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using an anechoic chamber at a distance of 1 m from the machine.
Supplementary charge: The initial charge of the machines is valid for the first 5 m (liquid line). A supplementary charge of 0.012 kg/m is required for greater distances per each additional metre.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 56

Double Flow Console

With its new elegant design and compact dimensions, this new version of the Double Flow Console can be adapted to all areas. Easy to install, equipped with the highest technological features and double air supply. It is possible to control it by WiFi and wired remote controller by a multifunction board.



New design

The unit has been completely redesigned, giving it a fresh and more modern look, perfect for every situation and atmosphere. This unit is also thinner than its precursor, great to make the most of space.

Smart Home

Ability to control the unit from anywhere using the Kaysun app. Voice control is also available on Alexa and Google Home.

Double air supply

Using one or both of its two air outlets depending on its heating/cooling mode, the unit can cool the room more efficiently.

ECO Mode

This technology enables energy savings in Economic mode vs. Automatic mode.

Multifunction board (Optional)

The unit can be controlled from a wired controller, or connected to a centralised controller, BMS, or external compatible controllers (as Airzone).

KID-05 S
Standard

R-32 REFRIGERANT | DC INVERTER COMPRESSOR | DC INVERTER EXTERNAL FAN | DC INVERTER INTERNAL FAN | HERTZ | SMART HOME | FOLLOW ME

Set model	KSDA-35 DVR14-1	KSDA-52 DVR14-1
Set		
Outdoor unit	KUE-35 DVR13	KUE-52 DVR13
Indoor unit	KSD-35 DR14-1	KSD-52 DR14-1
Cooling capacity rated; kW	3.52	4.98
Cooling capacity min. / max.; kW	0.76 / 4.25	2.64 / 5.57
Heating capacity rated; kW	3.81	5.28
Heating capacity min. / max.; kW	0.45 / 4.69	2.20 / 6.3
Cooling input rated; W	1000	1500
Cooling input min. / max.; W	170 / 1350	650 / 1950
Heating input rated; W	980	1420
Heating input min. / max.; W	150 / 1300	600 / 1900
SEER	7.3 - A++	6.7 - A++
SCOP	4 - A+	4 - A+
Outdoor unit		
Air flow,; m^3/h	2200	2100
Sound pressure; dB(A)	54	55
Sound power level; dB(A)	62	63
Width / Height / Depth; mm	765 / 555 / 303	805 / 554 / 330
Net weight; kg	26.6	32.5
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x1,5	(2+T)x1,5
Compressor type	Rotary	Rotary
Indoor unit		
Air flow low / medium / high; m^3/h	490 / 580 / 650	600 / 690 / 780
Sound pressure low / medium / high; dB(A)	27 / 34 / 37	32 / 38 / 41
Sound power level; dB(A)	54	55
Width / Height / Depth; mm	794 / 621 / 200	794 / 621 / 200
Net weight; kg	14.9	14.9
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	0.72	1.15
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 1/2"
Piping height difference; m	25	30
Vertical piping max. length; m	10	20
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

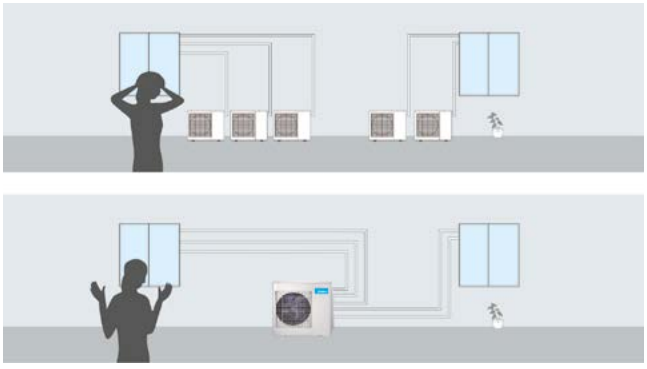
Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 56

Multisystem. Presentation of the range

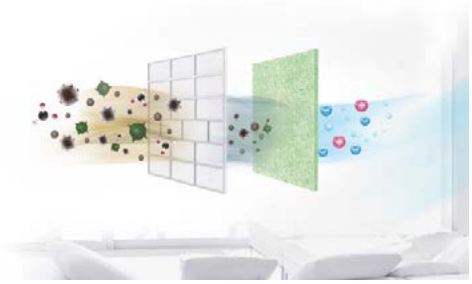
Suite Multisystem

The Kaysun Multisystem range is designed to provide comfort and technology to every space. This is a flexible and versatile range that allows multiple combinations with different types of indoor units. All outdoor units are fitted with a DC Inverter compressor and fan, while all indoor units also have a DC Inverter fan. These units are the perfect solution for small spaces in which a larger scale installation is not possible.



Installation space saving

The Multisystem units are designed to save outdoor space, as up to 5 indoor units can be connected to a single outdoor unit.

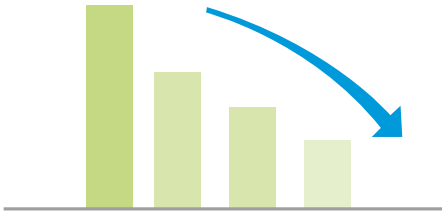


Anti-allergen and anti-odour filters

All indoor Kaysun indoor wall units are fitted with two filters. The high-density filter that removes 80% of dust and pollen, in which the anti-dust effect is 50% greater than for a standard filter. And the active carbon filter which cleans the air of bacteria and unpleasant odours.

R-32 Refrigerant

The Multisystem domestic range is available with R-32 refrigerant. The main characteristics of R-32 are that its atmospheric warming potential of 675 (less than that for R-410A) is more economical and is 2-9% more efficient with a lower charging volume.



Low-power equipment

Through seeking efficiency, comfort and energy savings for the user, Kaysun only uses components in its units that meet the appropriate characteristics in order to achieve this aim. The main components are the Twin DC Rotary Inverter Compressors and the DC fans to ensure minimum consumption and maximum performance.

Twin DC Rotary Inverter Compressor

The outdoor units in the Kaysun domestic range feature a Twin DC Rotary Inverter compressor. Thanks to its design, this type of high-efficiency, compact compressor reduces operating vibration and, as a consequence, the sound level of the outdoor unit. In addition, it allows greater regulation of capacity and comfort. This technology is also known as Twin Rotary.

DC fans

All fan motors in the Kaysun Suite units are direct current. These fans feature low power consumption, excellent efficiency and high performance, accompanied by the ideal fan running speed.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option. It can be set to manage the units remotely, and programmed weekly.

Versatility of indoor units

Apart from the wall-mounted units, within the Kaysun Multisystem range there are also cassette units, ducts, and an Air-To-Water hydraulic kit.

Outdoor units

R-32 REFRIGERANT | DC INVERTER COMPRESSOR | CONDENSATION CONTROL | DC INVERTER EXTERNAL FAN | ErP

Model	KAM2-42 DR8	KAM2-52 DR8	KAM3-62 DR8
Cooling capacity rated; kW	4.10	5.28	6.15
Heating capacity rated; kW	4.39	5.57	6.59
Heating capacity rated at -7°C; kW	3.5	3.62	4.13
Cooling input rated; W	1270	1630	1900
Heating input rated; W	1200	1500	1770
SEER	6.8 - A++	6.6 - A++	6.5 - A++
SCOP warm areas	4	4	4
COP at -7°C	3.19	3.2	3.1
No. indoor units	2	2	3
Air flow,; m^3/h	2200	2200	3000
Sound pressure; dB(A)	57	56	57.5
Sound power level; dB(A)	66	63	66
Width / Height / Depth; mm	800 / 554 / 333	800 / 554 / 333	845 / 702 / 363
Net weight; kg	31.6	35.5	46.8
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x4
Communication wiring; mm^2	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5
Compressor type	Rotary	Rotary	Rotary
Refrigerant			
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	0.9	1.25	1.4
Pre-charge meters; m	15	15	22.5
Liquid / Gas pipe diameter; inch	2x 1/4" / 2x 3/8"	2x 1/4" / 2x 3/8"	3x 1/4" / 3x 3/8"
Piping height difference; m	40	40	60
Vertical piping max. length; m	15	15	15
Piping max. length (1 indoor unit); m	25	25	30
Height difference between indoor units; m	10	10	10
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: The energy coefficients are calculated under standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using an anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial charging of the outdoor machines is valid for the first 7.5 m (liquid line). A supplementary charge of 0.012 kg/m is required for greater distances per each additional metre.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Model	KAM3-78 DR8	KAM4-80 DR7
Cooling capacity rated; kW	7.91	8.20
Heating capacity rated; kW	8.21	8.79
Heating capacity rated at -7°C; kW	6.52	5.81
Cooling input rated; W	2450	2500
Heating input rated; W	2200	2400
SEER	6.7 - A++	6.5 - A++
SCOP warm areas	4	4
COP at -7°C	3.13	3.1
No. indoor units	3	4
Air flow,; m^3/h	2700	3800
Sound pressure; dB(A)	54	61
Sound power level; dB(A)	67	69
Width / Height / Depth; mm	845 / 702 / 363	946 / 810 / 410
Net weight; kg	53	62.1
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x4	(2+T)x4
Communication wiring; mm^2	(3+T)x2,5	(3+T)x2,5
Compressor type	Rotary	Rotary
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	1.72	2.1
Pre-charge meters; m	22.5	30
Liquid / Gas pipe diameter; inch	3x 1/4" / 3x 3/8"	4x 1/4" / 3x 3/8" + 1x 1/2"
Piping height difference; m	60	80
Vertical piping max. length; m	15	15
Piping max. length (1 indoor unit); m	30	35
Height difference between indoor units; m	10	10
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Unit compatible with Hydraulic kit

Model	KAM4-105 DR7	KAM5-120 DR8
Cooling capacity rated; kW	10.55	12.31
Heating capacity rated; kW	11.14	12.6
Heating capacity rated at -7°C; kW	7.33	8.54
Cooling input rated; W	3265	3800
Heating input rated; W	2840	3300
SEER	6.5 - A++	6.5 - A++
SCOP warm areas	3.8	3.7
COP at -7°C	3.11	2.1
No. indoor units	4	5
Air flow,; m^3/h	4000	3850
Sound pressure; dB(A)	63	61.5
Sound power level; dB(A)	68	70
Width / Height / Depth; mm	946 / 810 / 410	946 / 810 / 410
Net weight; kg	68.8	74.10
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x6	(2+T)x6
Communication wiring; mm^2	(3+T)x2,5	(3+T)x2,5
Compressor type	Rotary	Rotary
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	2.1	2.9
Pre-charge meters; m	30	37.5
Liquid / Gas pipe diameter; inch	4x 1/4" / 3x 3/8" + 1x 1/2"	5x 1/4" / 4x 3/8" + 1x 1/2"
Piping height difference; m	80	80
Vertical piping max. length; m	15	15
Piping max. length (1 indoor unit); m	35	35
Height difference between indoor units; m	10	10
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Indoor units

Casual

KID-05.3 S
Standard

Model	KAY-CF 20 DR11	KAY-CF 26 DR11.1	KAY-CF 35 DR11	KAY-CF 52 DR11	KAY-CF 71 DR11
Cooling capacity rated; kW	2,05	2,63	3.52	5.28	7.03
Heating capacity rated; kW	2,64	2,93	3.81	5.57	7.33
Air flow low / medium / high; m^3/h	259 / 333 / 439	259 / 333 / 439	325 / 430 / 540	540 / 680 / 840	662 / 817 / 980
Sound pressure low / medium / high; dB(A)	25.0 / 31.0 / 38.0	25,0 / 31,0 / 38,0	25 / 34.5 / 40.5	26 / 36 / 42.5	36 / 40.5 / 45
Sound power level; dB(A)	50	50	55	56	59
Width / Height / Depth; mm	715 / 285 / 194	715 / 285 / 194	805 / 285 / 194	957 / 302 / 213	1040 / 327 / 220
Net weight; kg	7,0	7,0	7.6	10	12.3
Communication wiring; mm^2	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"
See compatibility of controllers in the range 1x1					

Prodigy Pro

NEW

KID-06 S
Standard

Model	KAY-P 26 DR10	KAY-P 35 DR10	KAY-P 52 DR10	KAY-P 71 DR10
Cooling capacity rated; kW	2.72	3.52	5.28	7.03
Heating capacity rated; kW	3.13	3.96	5.57	7.33
Air flow low / medium / high; m^3/h	280 / 360 / 530	290 / 380 / 560	400 / 580 / 685	379 / 724 / 1092
Sound pressure low / medium / high; dB(A)	21.5 / 32 / 40	22 / 34 / 41	23 / 35 / 41	33 / 40 / 44.5
Sound pressure silence; dB(A) (x1)	20.5	21	22	21
Sound power level; dB(A)	55	55	59	65
Width / Height / Depth; mm	795 / 295 / 225	795 / 295 / 225	965 / 319 / 239	1140 / 275 / 370
Net weight; kg	10.2	10.2	12.3	20
Communication wiring; mm^2	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"
See compatibility of controllers in the range 1x1				

Onnix 2.0

NEW

KID-05.4 S
Standard

Model	KAY-D 26 DR10	KAY-D 35 DR10	KAY-D 52 DR10
Cooling capacity rated; kW	2.63	3.52	5.28
Heating capacity rated; kW	2.93	3.81	5.57
Air flow low / medium / high; m^3/h	425 / 515 / 700	425 / 515 / 700	430 / 530 / 750
Sound pressure low / medium / high; dB(A)	21.5 / 32.5 / 40	21.5 / 32.5 / 40	33.5 / 36.5 / 41
Sound power level; dB(A)	53	53	54
Width / Height / Depth; mm	921 / 321 / 211	921 / 321 / 211	921 / 321 / 211
Net weight; kg	11.3	11.3	11.3
Communication wiring; mm^2	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"
See compatibility of controllers in the range 1x1			

Double Flow Console

KID-06 S
Standard

Model	KSD-35 DR14	KSD-52 DR14
Cooling capacity rated; kW	3.52	5
Heating capacity rated; kW	3.81	5.28
Air flow low / medium / high; m^3/h	490 / 580 / 650	600 / 690 / 780
Sound pressure low / medium / high; dB(A)	27 / 34 / 37	32 / 38 / 41
Sound power level; dB(A)	54	55
Width / Height / Depth; mm	794 / 621 / 206	794 / 621 / 206
Net weight; kg	14.9	14.9
Communication wiring; mm^2	(3+T)x2,5	(3+T)x2,5
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 1/2"
See compatibility of controllers in the range 1x1		

KID-06 S
Standard

Cassettes 600x600 & 840x840

Model	KCI-26 DMR14	KCI-35 DR14	KCI-52 DR14	KCIS-71 DR14
Cooling capacity rated; kW	2.63	3.52	5.28	7.03
Heating capacity rated; kW	2.93	3.81	5.57	7.62
Air flow low / medium / high; m^3/h	389 / 485 / 569	389 / 485 / 569	479 / 584 / 680	1000 / 1140 / 1300
Sound pressure low / medium / high; dB(A)	34.5 / 37.5 / 42	34.5 / 37.5 / 42	39 / 44 / 45.4	39.5 / 42.5 / 45.5
Sound power level; dB(A)	57	57	59	57
Width / Height / Depth; mm	570 / 260 / 570	570 / 260 / 570	570 / 260 / 570	830 / 205 / 830
Net weight; kg	16.3	16.3	16	21.6
Communication wiring; mm^2	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"
Panel; Width / Height / Depth; mm	647 / 50 / 647	647 / 50 / 647	647 / 50 / 647	950 / 55 / 950
Panel; Net weight; kg	2.5	2.5	2.5	6

See compatibility of controllers in the range Zen

KCT-04.1 SPSWF
Standard

Ducts

Model	KPD-35 DR14	KPD-52 DR14	KPD-71 DR14
Cooling capacity rated; kW	3.52	5.28	7.03
Heating capacity rated; kW	3.81	5.57	7.62
Air flow low / medium / high; m^3/h	300 / 480 / 600	515 / 706 / 911	825 / 1035 / 1229
Sound pressure low / medium / high; dB(A)	30 / 32 / 34.5	35 / 39 / 42	41 / 46 / 49
Sound power level; dB(A)	58	58	62
Max. pressure available; Pa	60	100	160
Air inlet width/height; mm	599/186	782/190	1001/228
Air outlet width/height; mm	537/152	706/136	926/175
Width / Height / Depth; mm	700 / 200 / 506	880 / 210 / 674	1100 / 249 / 774
Net weight; kg	17.8	24.4	32.30
Communication wiring; mm^2	(3+T)x2,5	(3+T)x2,5	(3+T)x2,5
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"

See compatibility of controllers in the range Zen

Hydraulic Kit

Compatible with outdoor unit KAM4-105 DR7

Model	KHHP-BI
Sound pressure; dB(A)	32
Sound power level; dB(A)	44
Width / Height / Depth; mm	490 / 918 / 325
Net weight; kg	56

For additional data check Aquatix chapter

Cooling and heating capacity: The energy coefficients are calculated under standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using an anechoic chamber at a distance of 1 m from the machine.
Communication wiring: The supply to the unit is made via communication wire.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Combined Systems

R-32

2x1

KAM2-42 DR7 & KAM2-42 DR8 (R-32)

Combinations		COOLING										HEATING									
		Rated Capacity (kW)(Nom. cooling)		Total Cooling Capacity (kW)			Total Power Input (kW)			SEER	Energy Class	Rated Capacity (kW)(Nom. heating)		Total Heating Capacity (kW)			Total Power Input (kW)			SCOP	Energy Class
Unit A	Unit B	Unit A	Unit B	Min.	Rated	Max.	Min.	Rated	Max.			Unit A	Unit B	Min.	Rated	Max.	Min.	Rated	Max.		
20	20	2,05	2,05	1,76	4,10	4,92	0,44	1,27	1,59	6,9	A++	2,20	2,20	1,89	4,40	5,28	0,42	1,19	1,48	4,0	A+
20	26	1,79	2,31	1,76	4,10	4,92	0,44	1,27	1,59	6,9	A++	1,93	2,48	1,89	4,40	5,28	0,42	1,19	1,48	4,0	A+
20	35	1,51	2,59	1,76	4,10	4,92	0,44	1,27	1,59	6,9	A++	1,62	2,78	1,89	4,40	5,28	0,42	1,19	1,48	4,0	A+
26	26	2,05	2,05	1,76	4,10	4,92	0,44	1,27	1,59	6,9	A++	2,20	2,20	1,89	4,40	5,28	0,42	1,19	1,48	4,0	A+
26	35	1,76	2,34	1,76	4,10	4,92	0,44	1,27	1,59	6,9	A++	1,89	2,51	1,89	4,40	5,28	0,42	1,19	1,48	4,0	A+

KAM2-52 DR7.1 & KAM2-52 DR8 (R-32)

Combinations		COOLING										HEATING									
		Rated Capacity (kW)(Nom. cooling)		Total Cooling Capacity (kW)			Total Power Input (kW)			SEER	Energy Class	Rated Capacity (kW)(Nom. heating)		Total Heating Capacity (kW)			Total Power Input (kW)			SCOP	Energy Class
Unit A	Unit B	Unit A	Unit B	Min.	Rated	Max.	Min.	Rated	Max.			Unit A	Unit B	Min.	Rated	Max.	Min.	Rated	Max.		
20	20	2,65	2,65	2,12	5,30	5,62	0,54	1,64	2,05	6,1	A++	2,50	2,50	2,23	5,00	6,04	0,51	1,35	1,88	4,0	A+
20	26	2,32	2,98	2,12	5,30	5,83	0,54	1,64	2,05	6,1	A++	2,32	2,98	2,23	5,30	6,12	0,51	1,43	1,88	4,0	A+
20	35	1,95	3,35	2,12	5,30	6,41	0,54	1,64	2,05	6,1	A++	2,03	3,47	2,23	5,50	6,36	0,51	1,48	1,88	4,0	A+
26	26	2,65	2,65	2,12	5,3	6,41	0,54	1,64	2,05	6,3	A++	2,78	2,78	2,23	5,57	6,68	0,51	1,50	1,88	4,0	A+
26	35	2,27	3,03	2,12	5,3	6,41	0,54	1,64	2,05	6,3	A++	2,39	3,18	2,23	5,57	6,68	0,51	1,50	1,88	4,0	A+
35	35	2,65	2,65	2,12	5,3	6,41	0,54	1,64	2,05	6,3	A++	2,79	2,79	2,23	5,57	6,68	0,51	1,50	1,88	4,0	A+

R-32

3x1

KAM3-62 DR7 & KAM3-62 DR8 (R-32)

Combinations			COOLING											HEATING									
			Rated Capacity (kW)(Nom. cooling)			Total Cooling Capacity (kW)			Total Power Input (kW)			SEER	Energy Class	Rated Capacity (kW)(Nom. heating)			Total Power Input (kW)			Power Input (kW)			SCOP	Energy Class
A	B	C	A	B	C	Min.	Rated	Max.	Min.	Rated	Max.			A	B	C	Min.	Rated	Max.	Min.	Rated	Max.		
20	20	–	2,10	2,10	–	2,01	4,20	5,49	0,57	1,30	1,89	5,6	A+	2,50	2,50	–	2,13	5,00	5,80	0,52	1,35	1,74	3,8	A
20	26	–	2,06	2,64	–	2,01	4,70	5,80	0,57	1,46	1,98	5,6	A+	2,45	3,15	–	2,13	5,60	6,12	0,52	1,51	1,82	3,8	A
20	35	–	1,95	3,35	–	2,01	5,30	6,10	0,57	1,64	2,08	5,6	A+	2,17	3,73	–	2,13	5,90	6,45	0,52	1,59	1,91	3,8	A
20	52		1,76	4,54	–	2,01	6,30	6,83	0,57	1,95	2,17	5,6	A+	1,82	4,68	–	2,13	6,50	7,22	0,52	1,75	2,00	3,8	A
26	26	–	2,65	2,65	–	2,01	5,30	6,41	0,57	1,64	2,08	5,6	A+	2,95	2,95	–	2,13	5,90	6,77	0,52	1,59	1,91	3,8	A
26	35	–	2,57	3,43	–	2,01	6,00	6,59	0,57	1,86	2,12	5,6	A+	2,70	3,60	–	2,13	6,30	6,96	0,52	1,70	1,95	3,8	A
26	52	–	2,10	4,20	–	2,01	6,30	6,83	0,57	1,95	2,17	5,6	A+	2,20	4,40	–	2,13	6,60	7,22	0,52	1,78	2,00	3,8	A
35	35	–	3,10	3,10	–	2,01	6,20	6,83	0,57	1,92	2,17	5,6	A+	3,15	3,15	–	2,13	6,30	7,22	0,52	1,70	2,00	3,8	A
20	20	20	2,03	2,03	2,03	2,44	6,10	7,20	0,68	1,89	2,36	6,7	A++	2,15	2,15	2,15	2,26	6,45	7,61	0,63	1,74	2,17	4,0	A+
20	20	26	1,86	1,86	2,39	2,44	6,10	7,26	0,68	1,89	2,36	6,7	A++	1,96	1,96	2,52	2,26	6,45	7,61	0,63	1,74	2,17	4,0	A+
20	20	35	1,64	1,64	2,82	2,44	6,10	7,32	0,68	1,89	2,36	6,7	A++	1,74	1,74	2,98	2,26	6,45	7,74	0,63	1,74	2,17	4,0	A+
20	26	26	1,71	2,20	2,20	2,44	6,10	7,32	0,68	1,89	2,36	6,7	A++	1,81	2,32	2,32	2,26	6,45	7,74	0,63	1,74	2,17	4,0	A+
20	26	35	1,53	1,96	2,61	2,44	6,10	7,32	0,68	1,89	2,36	6,7	A++	1,61	2,07	2,76	2,26	6,45	7,74	0,63	1,74	2,17	4,0	A+
26	26	26	2,03	2,03	2,03	2,44	6,10	7,32	0,68	1,89	2,36	6,7	A++	2,15	2,15	2,15	2,26	6,45	7,74	0,63	1,74	2,17	4,0	A+
26	26	35	1,83	1,83	2,44	2,44	6,10	7,32	0,68	1,89	2,36	6,7	A++	1,94	1,94	2,58	2,26	6,45	7,74	0,63	1,74	2,17	4,0	A+

KAM3-78 DR7.1 & KAM3-78 DR8 (R-32)

Combinations			COOLING											HEATING									
			Rated Capacity (kW)(Nom. cooling)			Total Cooling Capacity (kW)			Total Power Input (kW)			SEER	Energy Class	Rated Capacity (kW)(Nom. heating)			Total Power Input (kW)			Power Input (kW)			SCOP	Energy Class
A	B	C	A	B	C	Min.	Rated	Max.	Min.	Rated	Max.			A	B	C	Min.	Rated	Max.	Min.	Rated	Max.		
20	20	–	2,10	2,10	–	2,21	4,20	6,32	0,64	1,30	2,08	5,6	A+	2,50	2,50	–	2,30	5,00	6,56	0,58	1,35	1,88	3,8	A
20	26	–	2,06	2,64	–	2,21	4,70	6,72	0,64	1,46	2,20	5,6	A+	2,45	3,15	–	2,30	5,60	6,98	0,58	1,51	1,99	3,8	A
20	35	–	1,95	3,35	–	2,21	5,30	7,11	0,64	1,64	2,45	5,6	A+	2,21	3,79	–	2,30	6,00	7,39	0,58	1,62	2,21	3,8	A
20	52	–	1,82	4,68	–	2,21	6,50	7,90	0,64	2,01	2,69	5,6	A+	1,96	5,04	–	2,30	7,00	8,21	0,58	1,89	2,43	3,8	A
26	26	–	2,65	2,65	–	2,21	5,30	7,11	0,64	1,64	2,45	5,6	A+	3,00	3,00	–	2,30	6,00	7,39	0,58	1,62	2,21	3,8	A
26	35	–	2,57	3,43	–	2,21	6,00	7,51	0,64	1,86	2,57	5,6	A+	2,70	3,60	–	2,30	6,30	7,80	0,58	1,70	2,32	3,8	A
26	52	–	2,27	4,53	–	2,21	6,80	7,90	0,64	2,11	2,69	5,6	A+	2,33	4,67	–	2,30	7,00	8,21	0,58	1,89	2,43	3,8	A
35	35	–	3,15	3,15	–	2,21	6,30	7,66	0,64	1,95	2,64	5,6	A+	3,25	3,25	–	2,30	6,50	7,96	0,58	1,75	2,39	3,8	A
35	52	–	2,72	4,08	–	2,21	6,80	7,90	0,64	2,11	2,69	5,6	A+	2,80	4,20	–	2,30	7,00	8,21	0,58	1,89	2,43	3,8	A
20	20	20	2,43	2,43	2,43	2,77	7,30	8,69	0,76	2,26	2,91	6,1	A++	2,73	2,73	2,73	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
20	20	26	2,25	2,25	2,90	2,77	7,40	8,69	0,76	2,29	2,91	6,1	A++	2,50	2,50	3,21	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
20	20	35	2,13	2,13	3,65	2,77	7,90	8,69	0,76	2,45	2,91	6,1	A++	2,21	2,21	3,78	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
20	20	52	1,73	1,73	4,44	2,77	7,90	8,69	0,76	2,45	2,91	6,1	A++	1,79	1,79	4,61	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
20	26	26	2,13	2,74	2,74	2,77	7,60	8,69	0,76	2,35	2,91	6,1	A++	2,30	2,95	2,95	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
20	26	35	1,98	2,54	3,39	2,77	7,90	8,69	0,76	2,45	2,91	6,1	A++	2,05	2,64	3,51	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
20	26	52	1,63	2,09	4,18	2,77	7,90	8,69	0,76	2,45	2,91	6,1	A++	1,69	2,17	4,34	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
20	35	35	1,78	3,06	3,06	2,77	7,90	8,69	0,76	2,45	2,91	6,1	A++	1,85	3,17	3,17	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
26	26	26	2,63	2,63	2,63	2,77	7,90	8,69	0,76	2,45	2,91	6,1	A++	2,74	2,74	2,74	2,87	8,21	9,85	0,69	2,21	2,76	4,0	A+
26	26	35	2,37	2,37	3,16	2,77	7,90	8,69	0,76	2,45	2,91	6,1	A++	2,46	2,46	3,28	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
26	35	35	2,15	2,87	2,87	2,77	7,90	8,69	0,76	2,45	2,91	6,1	A++	2,24	2,99	2,99	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+
35	35	35	2,63	2,63	2,63	2,77	7,90	8,69	0,76	2,45	2,91	6,1	A++	2,73	2,73	2,73	2,87	8,20	9,85	0,69	2,21	2,76	4,0	A+

Combined Systems

R-32

4x1

KAM4-80 DR7 (R-32)

Combinations				COOLING												HEATING										
				Rated Capacity (kW)(Nom. cooling)				Total Cooling Capacity (kW)			Total Power Input (kW)			SEER	Energy Class	Rated Capacity (kW)(Nom. heating)				Total Heating Capacity (kW)			Total Power Input (kW)			SCOP	Energy Class
A	B	C	D	A	B	C	D	Min.	Rated	Max.	Min.	Rated	Max.			A	B	C	D	Min.	Rated	Max.	Min.	Rated	Max.		
20	20	–	–	2,10	2,10	–	–	2,05	4,20	6,07	0,63	1,30	2,03	5,1	A	2,50	2,50	–	–	2,20	5,00	6,51	0,59	1,31	1,90	3,4	A
20	26	–	–	2,06	2,64	–	–	2,05	4,70	6,40	0,63	1,46	2,16	5,1	A	2,45	3,15	–	–	2,20	5,60	6,86	0,59	1,47	2,02	3,4	A
20	35	–	–	1,95	3,35	–	–	2,05	5,30	6,81	0,63	1,64	2,28	5,1	A	2,21	3,79	–	–	2,20	6,00	7,30	0,59	1,57	2,13	3,4	A
20	52	–	–	1,96	5,04	–	–	2,05	7,00	7,54	0,63	2,17	2,79	5,1	A	2,18	5,62	–	–	2,20	7,80	8,10	0,59	2,03	2,61	3,4	A
20	71	–	–	1,67	5,73	–	–	2,05	7,40	7,54	0,63	2,29	2,79	5,1	A	1,78	6,12	–	–	2,20	7,90	8,10	0,59	2,05	2,61	3,4	A
26	26	–	–	2,65	2,65	–	–	2,05	5,30	6,81	0,63	1,64	2,28	5,1	A	3,00	3,00	–	–	2,20	6,00	7,30	0,59	1,57	2,13	3,4	A
26	35	–	–	2,57	3,43	–	–	2,05	6,00	6,97	0,63	1,86	2,41	5,1	A	3,00	4,00	–	–	2,20	7,00	7,48	0,59	1,84	2,25	3,4	A
26	52	–	–	2,43	4,87	–	–	2,05	7,30	7,54	0,63	2,26	2,79	5,1	A	2,63	5,27	–	–	2,20	7,90	8,10	0,59	2,05	2,61	3,4	A
26	71	–	–	2,05	5,45	–	–	2,05	7,50	7,54	0,63	2,32	2,79	5,1	A	2,18	5,82	–	–	2,20	8,00	8,10	0,59	2,08	2,61	3,4	A
35	35	–	–	3,25	3,25	–	–	2,05	6,50	7,38	0,63	2,01	2,49	5,1	A	3,75	3,75	–	–	2,20	7,50	7,92	0,59	1,97	2,32	3,4	A
35	52	–	–	2,92	4,38	–	–	2,05	7,30	7,54	0,63	2,26	2,79	5,1	A	3,20	4,80	–	–	2,20	8,00	8,10	0,59	2,08	2,61	3,4	A
35	71	–	–	2,50	5,00	–	–	2,05	7,50	7,54	0,63	2,32	2,79	5,1	A	2,67	5,33	–	–	2,20	8,00	8,10	0,59	2,08	2,61	3,4	A
20	20	20	–	2,00	2,00	2,00	–	2,62	6,00	8,45	0,76	1,86	2,94	6,5	A++	2,33	2,33	2,33	–	2,82	7,00	9,06	0,71	1,89	2,75	3,8	A
20	20	26	–	1,98	1,98	2,54	–	2,62	6,50	8,45	0,76	2,01	2,94	6,5	A++	2,37	2,37	3,05	–	2,82	7,80	9,06	0,71	2,10	2,75	3,8	A
20	20	35	–	1,91	1,91	3,28	–	2,62	7,10	8,45	0,76	2,20	2,94	6,5	A++	2,26	2,26	3,88	–	2,82	8,40	9,06	0,71	2,26	2,75	3,8	A
20	20	52	–	1,71	1,71	4,39	–	2,62	7,80	8,45	0,76	2,41	2,94	6,5	A++	1,88	1,88	4,84	–	2,82	8,60	9,06	0,71	2,32	2,75	3,8	A
20	26	26	–	1,90	2,45	2,68	–	2,62	6,80	8,45	0,76	2,11	2,94	6,5	A++	2,35	3,02	2,68	–	2,82	8,40	9,06	0,71	2,26	2,75	3,8	A
20	26	35	–	1,88	2,41	3,21	–	2,62	7,50	8,45	0,76	2,32	2,94	6,5	A++	2,13	2,73	3,64	–	2,82	8,50	9,06	0,71	2,29	2,75	3,8	A
20	26	52	–	1,61	2,06	4,13	–	2,62	7,80	8,45	0,76	2,41	2,94	6,5	A++	1,77	2,28	4,55	–	2,82	8,60	9,06	0,71	2,32	2,75	3,8	A
20	35	35	–	1,76	3,02	3,02	–	2,62	7,80	8,45	0,76	2,41	2,94	6,5	A++	1,94	3,33	3,33	–	2,82	8,60	9,06	0,71	2,32	2,75	3,8	A
20	35	52	–	1,48	2,53	3,79	–	2,62	7,80	8,45	0,76	2,41	2,94	6,5	A++	1,63	2,79	4,18	–	2,82	8,60	9,06	0,71	2,32	2,75	3,8	A
26	26	26	–	2,37	2,37	2,37	–	2,62	7,10	8,45	0,76	2,20	2,94	6,5	A++	2,87	2,87	2,87	–	2,82	8,60	9,06	0,71	2,32	2,75	3,8	A
26	26	35	–	2,34	2,34	3,12	–	2,62	7,80	8,45	0,76	2,41	2,94	6,5	A++	2,58	2,58	3,44	–	2,82	8,60	9,06	0,71	2,32	2,75	3,8	A
26	26	52	–	1,95	1,95	3,90	–	2,62	7,80	8,45	0,76	2,41	2,94	6,5	A++	2,15	2,15	4,30	–	2,82	8,60	9,06	0,71	2,32	2,75	3,8	A
26	35	35	–	2,13	2,84	2,84	–	2,62	7,80	8,45	0,76	2,41	2,94	6,5	A++	2,35	3,13	3,13	–	2,82	8,60	9,06	0,71	2,32	2,75	3,8	A
35	35	35	–	2,60	2,60	2,60	–	2,62	7,80	8,45	0,76	2,41	2,94	6,5	A++	2,87	2,87	2,87	–	2,82	8,60	9,06	0,71	2,32	2,75	3,8	A
20	20	20	20	2,05	2,05	2,05	2,05	2,87	8,20	9,92	0,86	2,54	3,17	7,2	A++	2,20	2,20	2,20	2,20	3,08	8,80	10,65	0,81	2,37	2,96	4,0	A+
20	20	20	26	1,91	1,91	1,91	2,46	2,87	8,20	9,92	0,86	2,54	3,17	7,2	A++	2,05	2,05	2,05	2,64	3,08	8,80	10,65	0,81	2,37	2,96	4,0	A+
20	20	20	35	1,74	1,74	1,74	2,98	2,87	8,20	9,92	0,86	2,54	3,17	7,2	A++	1,87	1,87	1,87	3,20	3,08	8,80	10,65	0,81	2,37	2,96	4,0	A+
20	20	26	26	1,79	1,79	2,31	2,31	2,87	8,20	9,92	0,86	2,54	3,17	7,2	A++	1,93	1,93	2,48	2,48	3,08	8,80	10,65	0,81	2,37	2,96	4,0	A+
20	20	26	35	1,64	1,64	2,11	2,81	2,87	8,20	9,92	0,86	2,54	3,17	7,2	A++	1,76	1,76	2,26	3,02	3,08	8,80	10,65	0,81	2,37	2,96	4,0	A+
20	26	26	26	1,69	2,17	2,17	2,17	2,87	8,20	9,92	0,86	2,54	3,17	7,2	A++	1,81	2,33	2,33	2,33	3,08	8,80	10,65	0,81	2,37	2,96	4,0	A+
20	26	26	35	1,55	1,99	1,99	2,66	2,87	8,20	9,92	0,86	2,54	3,17	7,2	A++	1,66	2,14	2,14	2,85	3,08	8,80	10,65	0,81	2,37	2,96	4,0	A+
26	26	26	26	2,05	2,05	2,05	2,05	2,87	8,20	9,92	0,86	2,54	3,17	7,2	A++	2,20	2,20	2,20	2,20	3,08	8,80	10,65	0,81	2,37	2,96	4,0	A+

R-32

4x1

KAM4-105 DR7 (R-32)

Combinations				COOLING												HEATING										
				Rated Capacity (kW)(Nom. cooling)				Total Cooling Capacity (kW)			Total Power Input (kW)			SEER	Energy Class	Rated Capacity (kW)(Nom. heating)				Total Heating Capacity (kW)			Total Power Input (kW)			SCOP	Energy Class
A	B	C	D	A	B	C	D	Min.	Rated	Max.	Min.	Rated	Max.			A	B	C	D	Min.	Rated	Max.	Min.	Rated	Max.		
20	35	–	–	2,03	3,47	–	–	2,22	5,50	6,86	0,62	1,68	2,45	5,1	A	2,21	3,79	–	–	2,22	6,00	6,86	0,54	1,62	2,13	3,4	A
20	52	–	–	1,96	5,04	–	–	2,22	7,00	8,44	0,62	2,13	2,87	5,2	A	2,24	5,76	–	–	2,22	8,00	8,44	0,54	2,16	2,50	3,4	A
20	71	–	–	2,03	6,97	–	–	2,22	9,00	9,50	0,62	2,74	3,06	5,2	A	2,17	7,43	–	–	2,22	9,60	10,23	0,54	2,59	2,67	3,4	A
26	26	–	–	2,65	2,65	–	–	2,22	5,30	6,86	0,62	1,62	2,45	5,2	A	3,00	3,00	–	–	2,22	6,00	6,86	0,54	1,62	2,13	3,4	A
26	35	–	–	2,57	3,43	–	–	2,22	6,00	7,39	0,62	1,83	2,61	5,2	A	3,00	4,00	–	–	2,22	7,00	7,39	0,54	1,89	2,27	3,4	A
26	52	–	–	2,50	5,00	–	–	2,22	7,50	9,50	0,62	2,29	2,94	5,2	A	2,93	5,87	–	–	2,22	8,80	9,50	0,54	2,37	2,56	3,4	A
26	71	–	–	2,59	6,91	–	–	2,22	9,50	10,02	0,62	2,90	3,12	5,2	A	2,67	7,13	–	–	2,22	9,80	10,13	0,54	2,64	2,70	3,4	A
35	35	–	–	3,50	3,50	–	–	2,22	7,00	7,91	0,62	2,13	2,78	5,2	A	3,75	3,75	–	–	2,22	7,50	7,91	0,54	2,02	2,42	3,4	A
35	52	–	–	3,40	5,10	–	–	2,22	8,50	10,02	0,62	2,59	2,94	5,2	A	3,76	5,64	–	–	2,22	9,40	10,02	0,54	2,53	2,56	3,4	A
35	71	–	–	3,33	6,67	–	–	2,22	10,00	10,55	0,62	3,09	3,19	5,2	A	3,33	6,67	–	–	2,22	10,00	10,34	0,54	2,70	2,79	3,4	A
20	20	20	–	2,00	2,00	2,00	–	2,85	6,00	7,39	0,78	1,80	2,94	5,6	A+	2,50	2,50	2,50	–	2,85	7,50	7,39	0,68	2,02	2,56	3,6	A
20	20	26	–	1,98	1,98	2,54	–	2,85	6,50	7,91	0,78	1,98	3,10	5,6	A+	2,37	2,37	3,05	–	2,85	7,80	7,91	0,68	2,10	2,70	3,6	A
20	20	35	–	2,02	2,02	3,46	–	2,85	7,50	8,97	0,78	2,29	3,27	5,6	A+	2,29	2,29	3,92	–	2,85	8,50	8,97	0,68	2,29	2,84	3,6	A
20	20	52	–	1,97	1,97	5,06	–	2,85	9,00	11,61	0,78	2,74	3,59	5,8	A+	2,34	2,34	6,02	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
20	20	71	–	1,84	1,84	6,32	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	1,97	1,97	6,76	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
20	26	26	–	1,96	2,52	2,52	–	2,85	7,00	8,97	0,78	2,13	3,27	5,8	A+	2,38	3,06	3,06	–	2,85	8,50	8,97	0,68	2,29	2,84	3,6	A
20	26	35	–	2,00	2,57	3,43	–	2,85	8,00	10,02	0,78	2,44	3,43	5,8	A+	2,50	3,21	4,29	–	2,85	10,00	10,02	0,68	2,70	2,99	3,6	A
20	26	52	–	1,96	2,51	5,03	–	2,85	9,50	11,61	0,78	2,93	3,59	5,8	A+	2,20	2,83	5,66	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
20	26	71	–	1,75	2,25	6,00	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	1,87	2,41	6,42	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
20	35	35	–	2,03	3,48	3,48	–	2,85	9,00	10,55	0,78	2,78	3,43	5,8	A+	2,28	3,91	3,91	–	2,85	10,10	10,55	0,68	2,72	2,99	3,6	A
20	35	52	–	1,89	3,24	4,86	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	2,02	3,47	5,21	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
20	35	71	–	1,63	2,79	5,58	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	1,74	2,99	5,97	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
26	26	26	–	2,50	2,50	2,50	–	2,85	7,50	10,02	0,78	2,31	3,43	5,8	A+	3,33	3,33	3,33	–	2,85	10,00	10,02	0,68	2,70	2,99	3,6	A
26	26	35	–	2,55	2,55	3,40	–	2,85	8,50	10,55	0,78	2,62	3,43	5,8	A+	3,03	3,03	4,04	–	2,85	10,10	10,55	0,68	2,72	2,99	3,6	A
26	26	52	–	2,50	2,50	5,00	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	2,68	2,68	5,35	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
26	26	71	–	2,14	2,14	5,71	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	2,29	2,29	6,11	–	2,73	10,70	11,11	0,65	2,88	2,99	3,6	A
26	35	35	–	2,59	3,45	3,45	–	2,85	9,50	11,61	0,78	2,93	3,59	5,8	A+	2,92	3,89	3,89	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
26	35	52	–	2,31	3,08	4,62	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	2,47	3,29	4,94	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
26	35	71	–	2,00	2,67	5,33	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	2,14	2,85	5,71	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
35	35	35	–	3,33	3,33	3,33	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	3,57	3,57	3,57	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
35	35	52	–	2,86	2,86	4,29	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	3,06	3,06	4,59	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
35	35	71	–	2,50	2,50	5,00	–	2,85	10,00	11,61	0,78	3,09	3,59	5,8	A+	2,68	2,68	5,35	–	2,85	10,70	11,61	0,68	2,88	3,13	3,6	A
20	20	20	20	2,05	2,05	2,05	2,05	3,69	8,20	10,55	0,88	2,29	3,27	6,1	A++	2,50	2,50	2,50	2,50	3,69	10,00	10,55	0,77	2,70	2,84	3,8	A
20	20	20	26	1,98	1,98	1,98	2,55	3,69	8,50	11,61	0,88	2,47	3,43	6,1	A++	2,36	2,36	2,36	3,03	3,69	10,10	11,08	0,77	2,72	2,99	3,8	A
20	20	20	35	2,02	2,02	2,02	3,45	3,69	9,50	12,66	0,88	2,86	3,85	6,1	A++	2,31	2,31	2,31	3,96	3,69	10,90	11,61	0,77	2,94	3,13	3,8	A
20	20	20	52	1,87	1,87	1,87	4,80	3,69	10,40	13,72	0,88	3,22	3,98	6,2	A++	1,99	1,99	1,99	5,12	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	20	20	71	1,65	1,65	1,65	5,65	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	1,73	1,73	1,73	5,92	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	20	26	26	1,97	1,97	2,53	2,53	3,69	9,00	12,66	0,88	2,71	3,85	6,2	A++	2,38	2,38	3,07	3,07	3,69	10,90	11,61	0,77	2,94	3,13	3,8	A
20	20	26	35	2,00	2,00	2,57	3,43	3,69	10,00	13,19	0,88	3,09	3,92	6,2	A++	2,22	2,22	2,85	3,81	3,69	11,10	12,13	0,77	2,99	3,41	3,8	A
20	20	26	52	1,81	1,81	2,33	4,65	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	1,90	1,90	2,44	4,87	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	20	26	71	1,58	1,58	2,03	5,41	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	1,65	1,65	2,13	5,67	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	20	35	35	1,95	1,95	3,35	3,35	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	2,04	2,04	3,51	3,51	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	20	35	52	1,69	1,69	2,89	4,34	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	1,77	1,77	3,03	4,54	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	26	26	26	1,96	2,51	2,51	2,51	3,69	9,50	13,19	0,88	2,92	3,85	6,2	A++	2,29	2,94	2,94	2,94	3,69	11,10	12,13	0,77	2,99	3,27	3,8	A
20	26	26	35	2,01	2,58	2,58	3,44	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	2,10	2,70	2,70	3,60	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	26	26	52	1,73	2,22	2,22	4,44	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	1,81	2,32	2,32	4,65	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	26	35	35	1,86	2,39	3,18	3,18	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	1,94	2,50	3,33	3,33	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	26	35	52	1,61	2,07	2,77	4,15	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	1,69	2,17	2,90	4,34	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
20	35	35	35	1,73	2,96	2,96	2,96	3,69	10,60	13,72	0,88	3,28	3,98	6,2	A++	1,81	3,10	3,10	3,10	3,69	11,10	12,66	0,77	2,99	3,70	3,8	A
26	26	26	26	2,64	2,64	2,64	2,64	3,69	10,55	13,72	0,88	3,27	3,98	6,5	A++	2,64	2,64	2,64	2,64	3,69	10,55	12,66	0,77	2,84	3,70	4,0	A+
26	26	26	35	2,42	2,42	2,42	3,23	3,69	10,50	13,72	0,88	3,25	3,98	6,5	A++	2,56	2,56	2,56	3,42	3,69	11,10	12,66	0,77	2,99	3,70	4,0	A+
26	26	26	52	2,10	2,10	2,10	4,20	3,69	10,50	13,72	0,88	3,25	3,98	6,5	A++	2,22	2,22	2,22	4,44	3,69	11,10	12,66	0,77	2,99	3,70	4,0	A+
26	26	35	35	2,25	2,25	3,00	3,00	3,69	10,50	13,72	0,88	3,25	3,98	6,5	A++	2,38	2,38	3,17	3,17	3,69	11,10	12,66	0,77	2,99	3,70	4,0	A+
26	26	35	52	1,97	1,97	2,63	3,94	3,69	10,50	13,72	0,88	3,25	3,98	6,5	A++	2,08	2,08	2,78	4,16	3,69	11,10	12,66	0,77	2,99	3,70	4,0	A+
26	35	35	35	2,10	2,80	2,80	2,80	3,69	10,50	13,72	0,88	3,25	3,98	6,5	A++	2,22	2,96	2,96	2,96	3,69	11,10	12,66	0,77	2,99	3,70	4,0	A+
35	35	35	35	2,63	2,63	2,63	2,63	3,69	10,50	13,72	0,88	3,25	3,98	6,5	A++	2,78	2,78	2,78	2,78	3,69	11,10	12,66	0,77	2,99	3,70	4,0	A+

Combined Systems

R-32

5x1

KAM5-120 DR8 (R-32)

Combinations					COOLING												HEATING											
					Rated Capacity (kW)(Nom. cooling)					Total Cooling Capacity (kW)			Total Power Input (kW)			SEER	Energy Class	Rated Capacity (kW)(Nom. heating)					Total Heating Capacity (kW)			Total Power Input (kW)			SCOP	Energy Class
A	B	C	D	E	A	B	C	D	E	Min.	Rated	Max.	Min.	Rated	Max.			A	B	C	D	E	Min.	Rated	Max.	Min.	Rated	Max.		
20	52	–	–	–	1,96	5,04	–	–	–	2,34	7,00	9,84	0,65	2,49	2,70	5,1	A	2,24	5,76	–	–	–	2,34	8,00	9,85	0,56	2,11	2,36	3,0	C
20	71	–	–	–	2,05	7,05	–	–	–	2,34	9,10	11,69	0,65	3,23	3,05	5,1	A	2,21	7,59	–	–	–	2,34	9,80	11,69	0,56	2,58	2,65	3,0	C
26	35	–	–	–	2,57	3,43	–	–	–	2,34	6,00	8,61	0,65	2,13	2,59	5,1	A	2,91	3,89	–	–	–	2,34	6,80	8,62	0,56	1,79	2,26	3,0	C
26	52	–	–	–	2,50	5,00	–	–	–	2,34	7,50	11,07	0,65	2,66	2,86	5,1	A	2,93	5,87	–	–	–	2,34	8,80	11,08	0,56	2,32	2,49	3,0	C
26	71	–	–	–	2,65	7,05	–	–	–	2,34	9,70	12,30	0,65	3,45	3,24	5,1	A	2,78	7,42	–	–	–	2,34	10,20	12,31	0,56	2,68	2,82	3,0	C
35	35	–	–	–	3,50	3,50	–	–	–	2,34	7,00	9,23	0,65	2,49	2,70	5,1	A	3,75	3,75	–	–	–	2,34	7,50	9,23	0,56	1,97	2,36	3,0	C
35	52	–	–	–	3,40	5,10	–	–	–	2,34	8,50	11,69	0,65	3,02	3,12	5,1	A	3,76	5,64	–	–	–	2,34	9,40	11,69	0,56	2,47	2,72	3,0	C
35	71	–	–	–	3,33	6,67	–	–	–	2,34	10,00	12,30	0,65	3,55	3,43	5,1	A	3,50	7,00	–	–	–	2,34	10,50	12,31	0,56	2,76	2,99	3,0	C
20	20	20	–	–	2,00	2,00	2,00	–	–	2,89	6,00	7,38	0,80	1,73	3,05	5,3	A	2,50	2,50	2,50	–	–	2,89	7,50	8,62	0,70	1,95	2,65	3,2	B
20	20	26	–	–	1,98	1,98	2,54	–	–	2,89	6,50	8,61	0,80	1,87	3,24	5,3	A	2,37	2,37	3,05	–	–	2,89	7,80	9,23	0,70	2,03	2,82	3,2	B
20	20	35	–	–	2,02	2,02	3,46	–	–	2,89	7,50	9,23	0,80	2,16	3,43	5,3	A	2,29	2,29	3,92	–	–	2,89	8,50	9,85	0,70	2,21	2,99	3,2	B
20	20	52	–	–	1,97	1,97	5,06	–	–	2,89	9,00	11,07	0,80	2,59	3,62	5,3	A	2,52	2,52	6,47	–	–	2,89	11,50	12,31	0,70	2,99	3,15	3,2	B
20	20	71	–	–	2,03	2,03	6,95	–	–	2,89	11,00	12,92	0,80	3,16	3,81	5,3	A	2,21	2,21	7,58	–	–	2,89	12,00	12,92	0,70	3,12	3,32	3,2	B
20	26	26	–	–	1,96	2,52	2,52	–	–	2,89	7,00	9,23	0,80	2,01	3,35	5,3	A	2,38	3,06	3,06	–	–	2,89	8,50	9,85	0,70	2,21	2,92	3,2	B
20	26	35	–	–	2,00	2,57	3,43	–	–	2,89	8,00	10,46	0,80	2,30	3,50	5,3	A	2,50	3,21	4,29	–	–	2,89	10,00	12,31	0,70	2,60	3,05	3,2	B
20	26	52	–	–	1,96	2,51	5,03	–	–	2,89	9,50	11,07	0,80	2,73	3,73	5,3	A	2,37	3,04	6,09	–	–	2,89	11,50	12,31	0,70	2,99	3,25	3,2	B
20	26	71	–	–	2,01	2,59	6,90	–	–	2,89	11,50	12,92	0,80	3,31	3,96	5,3	A	2,10	2,70	7,20	–	–	2,89	12,00	12,92	0,70	3,12	3,45	3,2	B
20	35	35	–	–	2,03	3,48	3,48	–	–	2,89	9,00	11,07	0,80	2,59	3,62	5,3	A	2,48	4,26	4,26	–	–	2,89	11,00	12,31	0,70	2,86	3,15	3,2	B
20	35	52	–	–	1,99	3,41	5,11	–	–	2,89	10,50	12,30	0,80	3,02	3,81	5,3	A	2,18	3,73	5,59	–	–	2,89	11,50	12,31	0,70	2,99	3,32	3,2	B
20	35	71	–	–	1,87	3,21	6,42	–	–	2,89	11,50	12,92	0,80	3,31	3,96	5,3	A	1,95	3,35	6,70	–	–	2,89	12,00	12,92	0,70	3,12	3,45	3,2	B
26	26	26	–	–	2,67	2,67	2,67	–	–	2,89	8,00	10,46	0,80	2,30	3,81	5,3	A	3,33	3,33	3,33	–	–	2,89	10,00	12,31	0,70	2,60	3,32	3,2	B
26	26	35	–	–	2,70	2,70	3,60	–	–	2,89	9,00	12,92	0,80	2,59	3,62	5,3	A	3,30	3,30	4,40	–	–	2,89	11,00	12,31	0,70	2,86	3,15	3,2	B
26	26	52	–	–	2,63	2,63	5,25	–	–	2,89	10,50	12,30	0,80	3,02	3,81	5,3	A	2,88	2,88	5,75	–	–	2,89	11,50	12,31	0,70	2,99	3,32	3,2	B
26	26	71	–	–	2,46	2,46	6,57	–	–	2,89	11,50	12,92	0,80	3,31	3,96	5,3	A	2,57	2,57	6,86	–	–	2,89	12,00	12,92	0,70	3,12	3,45	3,2	B
26	35	35	–	–	2,45	3,27	3,27	–	–	2,89	9,00	11,07	0,80	2,59	3,62	5,3	A	3,14	4,18	4,18	–	–	2,89	11,50	12,31	0,70	2,99	3,15	3,2	B
26	35	52	–	–	2,54	3,38	5,08	–	–	2,89	11,00	11,69	0,80	3,16	3,81	5,3	A	2,77	3,69	5,54	–	–	2,89	12,00	12,92	0,70	3,12	3,32	3,2	B
26	35	71	–	–	2,30	3,07	6,13	–	–	2,89	11,50	12,92	0,80	3,31	3,96	5,3	A	2,40	3,20	6,40	–	–	2,89	12,00	12,92	0,70	3,12	3,45	3,2	B
35	35	35	–	–	3,17	3,17	3,17	–	–	2,89	9,50	11,07	0,80	2,73	3,73	5,3	A	3,83	3,83	3,83	–	–	2,89	11,50	12,31	0,70	2,99	3,25	3,2	B
35	35	52	–	–	3,29	3,29	4,93	–	–	2,89	11,50	12,92	0,80	3,31	3,96	5,3	A	3,43	3,43	5,14	–	–	2,89	12,00	12,92	0,70	3,12	3,45	3,2	B
35	35	71	–	–	3,00	3,00	6,00	–	–	2,89	12,00	12,92	0,80	3,45	3,96	5,3	A	3,00	3,00	6,00	–	–	2,89	12,00	12,92	0,70	3,12	3,45	3,2	B
20	20	20	20	–	2,00	2,00	2,00	2,00	–	3,69	8,00	10,50	0,91	2,63	3,42	5,6	A+	2,50	2,50	2,50	2,50	–	3,69	10,00	12,68	0,80	2,56	2,99	3,4	A
20	20	20	26	–	1,98	1,98	1,98	2,55	–	3,69	8,50	11,07	0,91	2,81	3,61	5,6	A+	2,57	2,57	2,57	3,30	–	3,69	11,00	12,92	0,80	2,81	3,15	3,4	A
20	20	20	35	–	2,02	2,02	2,02	3,45	–	3,69	9,50	11,69	0,91	3,17	3,72	5,6	A+	2,50	2,50	2,50	4,29	–	3,69	11,80	13,54	0,80	3,02	3,25	3,4	A
20	20	20	52	–	2,06	2,06	2,06	5,31	–	3,69	11,50	12,30	0,91	3,91	4,18	5,6	A+	2,15	2,15	2,15	5,54	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
20	20	20	71	–	1,87	1,87	1,87	6,40	–	3,69	12,00	13,53	0,91	4,15	4,37	5,6	A+	1,91	1,91	1,91	6,56	–	3,69	12,30	13,54	0,80	3,15	3,82	3,4	A
20	20	26	26	–	2,08	2,08	2,67	2,67	–	3,69	9,50	11,69	0,91	3,16	3,72	5,6	A+	2,63	2,63	3,38	3,38	–	3,69	12,00	13,54	0,80	3,07	3,25	3,4	A
20	20	26	35	–	2,00	2,00	2,57	3,43	–	3,69	10,00	12,30	0,91	3,36	4,18	5,6	A+	2,40	2,40	3,09	4,11	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
20	20	26	52	–	1,96	1,96	2,52	5,05	–	3,69	11,50	12,30	0,91	3,93	4,18	5,6	A+	2,05	2,05	2,63	5,27	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
20	20	26	71		1,79	1,79	2,30	6,13	–	3,69	12,00	13,53	0,91	4,15	4,37	5,6	A+	1,83	1,83	2,36	6,28	–	3,69	12,30	13,54	0,80	3,15	3,82	3,4	A
20	20	35	35	–	1,93	1,93	3,32	3,32	–	3,69	10,50	12,92	0,91	3,56	4,18	5,6	A+	2,21	2,21	3,79	3,79	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
20	20	35	52	–	1,83	1,83	3,14	4,70	–	3,69	11,50	13,53	0,91	3,97	4,18	5,6	A+	1,91	1,91	3,27	4,91	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
20	20	35	71	–	1,74	1,74	2,98	5,95	–	3,69	12,40	13,53	0,91	4,29	4,37	5,6	A+	1,72	1,72	2,95	5,90	–	3,69	12,30	13,54	0,80	3,15	3,82	3,4	A
20	26	26	26	–	2,06	2,65	2,65	2,65	–	3,69	10,00	12,30	0,91	3,35	4,18	5,6	A+	2,47	3,18	3,18	3,18	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
20	26	26	35	–	1,99	2,55	2,55	3,41	–	3,69	10,50	12,92	0,91	3,55	4,18	5,6	A+	2,27	2,92	2,92	3,89	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
20	26	26	52	–	1,87	2,41	2,41	4,81	–	3,69	11,50	13,53	0,91	3,96	4,18	5,6	A+	1,95	2,51	2,51	5,02	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
20	26	26	71	–	1,77	2,28	2,28	6,07	–	3,69	12,40	13,53	0,91	4,29	4,37	5,6	A+	1,76	2,26	2,26	6,02	–	3,69	12,30	13,54	0,80	3,15	3,82	3,4	A
20	26	35	35	–	2,01	2,59	3,45	3,45	–	3,69	11,50	13,53	0,91	3,92	4,18	5,6	A+	2,10	2,70	3,60	3,60	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A

R-32

5x1

KAM5-120 DR8 (R-32)

Combinations					COOLING												HEATING											
					Rated Capacity (kW)(Nom. cooling)					Total Cooling Capacity (kW)			Total Power Input (kW)			SEER	Energy Class	Rated Capacity (kW)(Nom. heating)					Total Heating Capacity (kW)			Total Power Input (kW)			SCOP	Energy Class
A	B	C	D	E	A	B	C	D	E	Min.	Rated	Max.	Min.	Rated	Max.			A	B	C	D	E	Min.	Rated	Max.	Min.	Rated	Max.		
20	26	35	52	–	1,83	2,35	3,13	4,70	–	3,69	12,00	13,53	0,91	4,15	4,37	5,6	A+	1,83	2,35	3,13	4,70	–	3,69	12,00	13,54	0,80	3,07	3,82	3,4	A
20	26	35	71	–	1,67	2,15	2,86	5,72	–	3,69	12,40	13,53	0,91	4,29	4,37	5,6	A+	1,66	2,13	2,84	5,68	–	3,69	12,30	13,54	0,80	3,15	3,82	3,4	A
20	35	35	35	–	1,87	3,21	3,21	3,21	–	3,69	11,50	13,53	0,91	3,96	4,18	5,6	A+	1,95	3,35	3,35	3,35	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
20	35	35	52	–	1,71	2,94	2,94	4,41	–	3,69	12,00	13,53	0,91	4,15	4,37	5,6	A+	1,71	2,94	2,94	4,41	–	3,69	12,00	13,54	0,80	3,07	3,82	3,4	A
26	26	26	26	–	2,63	2,63	2,63	2,63	–	3,69	10,50	12,92	0,91	3,54	4,18	5,6	A+	3,00	3,00	3,00	3,00	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
26	26	26	35	–	2,65	2,65	2,65	3,54	–	3,69	11,50	13,53	0,91	3,91	4,18	5,6	A+	2,77	2,77	2,77	3,69	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
26	26	26	52	–	2,40	2,40	2,40	4,80	–	3,69	12,00	13,53	0,91	4,15	4,37	5,6	A+	2,40	2,40	2,40	4,80	–	3,69	12,00	13,54	0,80	3,07	3,82	3,4	A
26	26	26	71	–	2,19	2,19	2,19	5,84	–	3,69	12,40	13,53	0,91	4,29	4,37	5,6	A+	2,17	2,17	2,17	5,79	–	3,69	12,30	13,54	0,80	3,15	3,82	3,4	A
26	26	35	35	–	2,46	2,46	3,29	3,29	–	3,69	11,50	13,53	0,91	3,95	4,18	5,6	A+	2,57	2,57	3,43	3,43	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
26	26	35	52	–	2,25	2,25	3,00	4,50	–	3,69	12,00	13,53	0,91	4,15	4,37	5,6	A+	2,25	2,25	3,00	4,50	–	3,69	12,00	13,54	0,80	3,07	3,82	3,4	A
26	26	35	71	–	2,07	2,07	2,76	5,51	–	3,69	12,40	13,53	0,91	4,29	4,37	5,6	A+	2,05	2,05	2,73	5,47	–	3,69	12,30	13,54	0,80	3,15	3,82	3,4	A
26	35	35	35	–	2,30	3,07	3,07	3,07	–	3,69	11,50	13,53	0,91	3,98	4,18	5,6	A+	2,40	3,20	3,20	3,20	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
26	35	35	52	–	2,19	2,92	2,92	4,38	–	3,69	12,40	13,53	0,91	4,29	4,37	5,6	A+	2,12	2,82	2,82	4,24	–	3,69	12,00	13,54	0,80	3,07	3,82	3,4	A
35	35	35	35	–	2,88	2,88	2,88	2,88	–	3,69	11,50	13,53	0,91	3,98	4,18	5,6	A+	3,00	3,00	3,00	3,00	–	3,69	12,00	13,54	0,80	3,07	3,65	3,4	A
35	35	35	52	–	2,76	2,76	2,76	4,13	–	3,69	12,40	13,53	0,91	4,29	4,37	5,6	A+	2,67	2,67	2,67	4,00	–	3,69	12,00	13,54	0,80	3,07	3,82	3,4	A
20	20	20	20	20	2,46	2,46	2,46	2,46	2,46	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	2,46	2,46	2,46	2,46	2,46	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	20	26	2,33	2,33	2,33	2,33	2,99	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	2,33	2,33	2,33	2,33	2,99	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	20	35	2,15	2,15	2,15	2,15	3,69	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	2,15	2,15	2,15	2,15	3,69	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	20	52	1,87	1,87	1,87	1,87	4,81	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,87	1,87	1,87	1,87	4,81	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	20	71	1,66	1,66	1,66	1,66	5,68	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,66	1,66	1,66	1,66	5,68	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	26	26	2,21	2,21	2,21	2,84	2,84	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	2,21	2,21	2,21	2,84	2,84	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	26	35	2,05	2,05	2,05	2,64	3,51	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	2,05	2,05	2,05	2,64	3,51	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	26	52	1,79	1,79	1,79	2,31	4,61	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,79	1,79	1,79	2,31	4,61	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	26	71	1,59	1,59	1,59	2,05	5,47	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,59	1,59	1,59	2,05	5,47	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	35	35	1,91	1,91	1,91	3,28	3,28	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,91	1,91	1,91	3,28	3,28	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	20	35	52	1,69	1,69	1,69	2,89	4,34	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,69	1,69	1,69	2,89	4,34	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	26	26	26	2,10	2,10	2,70	2,70	2,70	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	2,10	2,10	2,70	2,70	2,70	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	26	26	35	1,96	1,96	2,52	2,52	3,35	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,96	1,96	2,52	2,52	3,35	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	26	26	52	1,72	1,72	2,21	2,21	4,43	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,72	1,72	2,21	2,21	4,43	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	26	26	71	1,54	1,54	1,98	1,98	5,27	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,54	1,54	1,98	1,98	5,27	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	26	35	35	1,83	1,83	2,36	3,14	3,14	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,83	1,83	2,36	3,14	3,14	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	26	35	52	1,62	1,62	2,09	2,78	4,18	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,62	1,62	2,09	2,78	4,18	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	35	35	35	1,72	1,72	2,95	2,95	2,95	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,72	1,72	2,95	2,95	2,95	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	20	35	35	52	1,54	1,54	2,64	2,64	3,95	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,54	1,54	2,64	2,64	3,95	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	26	26	26	26	2,00	2,57	2,57	2,57	2,57	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	2,00	2,57	2,57	2,57	2,57	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	26	26	26	35	1,87	2,41	2,41	2,41	3,21	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,87	2,41	2,41	2,41	3,21	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	26	26	26	52	1,66	2,13	2,13	2,13	4,26	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,66	2,13	2,13	2,13	4,26	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	26	26	35	35	1,76	2,26	2,26	3,01	3,01	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,76	2,26	2,26	3,01	3,01	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	26	26	35	52	1,57	2,01	2,01	2,68	4,03	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,57	2,01	2,01	2,68	4,03	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	26	35	35	35	1,66	2,13	2,84	2,84	2,84	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,66	2,13	2,84	2,84	2,84	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
20	35	35	35	35	1,57	2,68	2,68	2,68	2,68	4,18	12,30	14,00	1,03	3,81	4,56	6,1	A++	1,57	2,68	2,68	2,68	2,68	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
26	26	26	26	26	2,46	2,46	2,46	2,46	2,46	4,18	12,30	14,00	1,03	3,80	4,56	6,1	A++	2,46	2,46	2,46	2,46	2,46	4,19	12,31	14,96	0,90	3,32	4,15	3,8	A
26	26	26	26	35	2,31	2,31	2,31	2,31	3,08	4,18	12,30	14,00	1,03	3,80	4,56	6,1	A++	2,31	2,31	2,31	2,31	3,08	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
26	26	26	26	52	2,05	2,05	2,05	2,05	4,10	4,18	12,30	14,00	1,03	3,80	4,56	6,1	A++	2,05	2,05	2,05	2,05	4,10	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
26	26	26	35	35	2,17	2,17	2,17	2,89	2,89	4,18	12,30	14,00	1,03	3,80	4,56	6,1	A++	2,17	2,17	2,17	2,89	2,89	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A
26	26	35	35	35	2,05	2,05	2,73	2,73	2,73	4,18	12,30	14,00	1,03	3,80	4,56	6,1	A++	2,05	2,05	2,73	2,73	2,73	4,19	12,30	14,96	0,90	3,32	4,15	3,8	A

Compatible controls and accessories

- ✔ Included as standard
- ● Recommended
- ○ Optional
- ⊗ Not supported

For more information see Controllers section.


		Casual	Prodigy Pro
Wireless controller		 ✔ KID-05.3 S	 ✔ KID-06 S
Wired controller		⊗	  ○ KC-03.2 SPS + KMB-01
WiFi	FRIWF-USB-02 	●	●
	K01-WIFI 	○	○
BMS[1]	Modbus 	⊗	○ K02-MODBUS + KMB-01 ○ K01 MODBUS + KMB-01
	Bacnet 	⊗	○ K01-BACNET + KMB-01 ○ K05 BACNET 1 + KMB-01
	KNX 	⊗	○ K01-KNX 1 + KMB-01
	Lonworks 	⊗	○ K01-LON + KMB-01
Centralised control[1]	Touch Centralised Control 	⊗	○ KCCT-64 I(B-A) + KMB-01 ○ KCCT-64 IPS (A) + KMB-01 ○ KCCT-384B IPS (A) + KMB-01 ○ KCCT-384B IPS (B)+KMB-01
	Web Centralised Control 	⊗	○ KCC-64 WEB + KMB-01

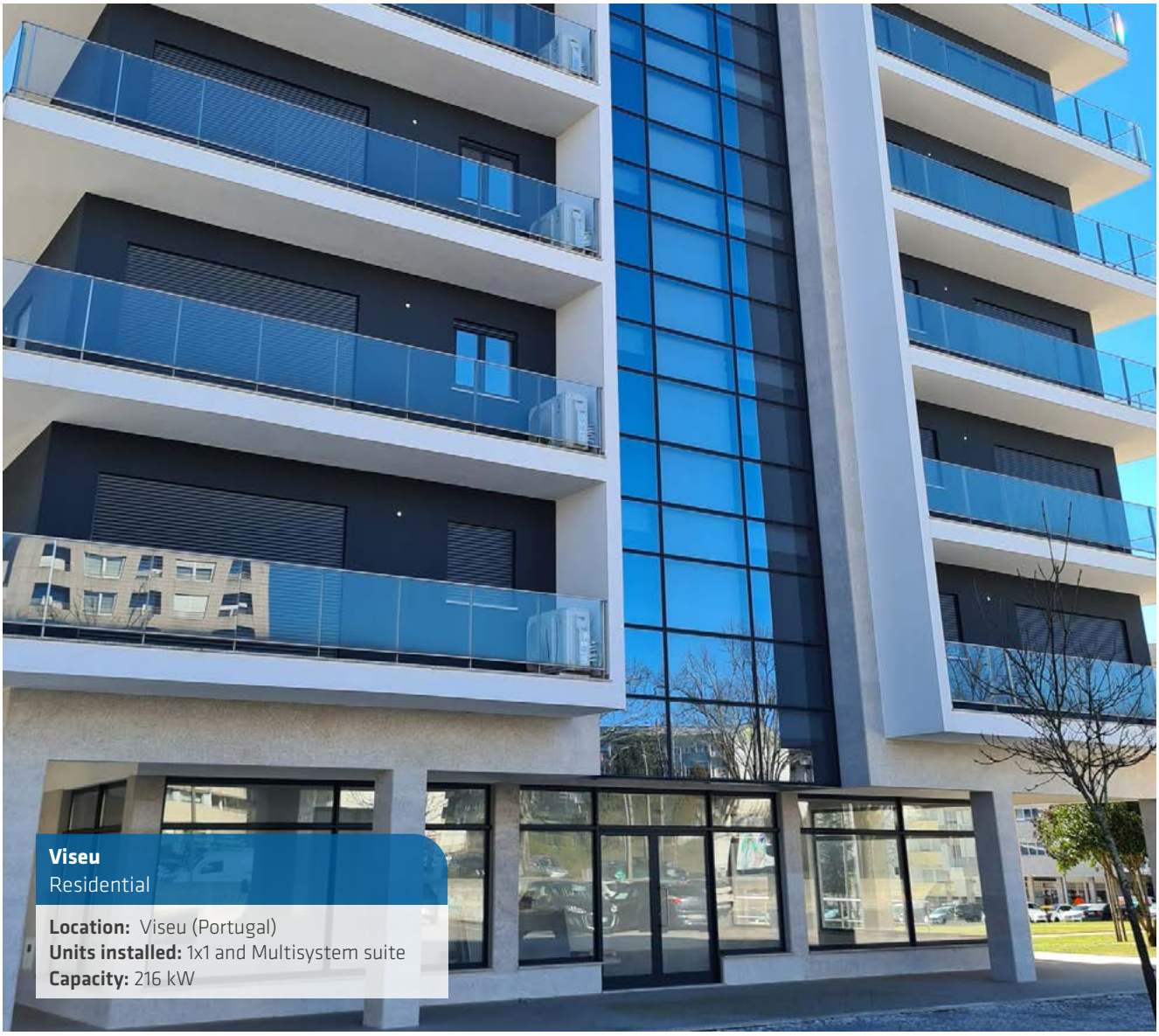
(1) All SUITE/ZEN indoor units incorporate V4+ protocol

Onnix 2.0	Double flow console	Portable
 ✔ KID-05.4 S	 ✔ KID-05 S	 ✔ KID-03
⊗	 ○ KC-03.2 SPS + FRIMB-FA2	⊗
●	●	⊗
○	○	⊗
⊗	○ K02-MODBUS + FRIMB-FA2 ○ K01 MODBUS + FRIMB-FA2	⊗
⊗	○ K01-BACNET + FRIMB-FA2 ○ K05 BACNET 1 + FRIMB-FA2	⊗
⊗	○ K01-KNX 1 + FRIMB-FA2	⊗
⊗	○ K01-LON + FRIMB-FA2	⊗
⊗	○ KCCT-64 I(B-A) + FRIMB-FA2 ○ KCCT-64 IPS (A) + FRIMB-FA2 ○ KCCT-384B IPS (A) + FRIMB-FA2 ○ KCCT-384B IPS (B)+KMB-01	⊗
⊗	○ KCC-64 WEB + FRIMB-FA2	⊗

References

Key Installations

The **Suite Residential Range** is present in the most common places. From apartments to hospitals, schools and universities, the comfort and technology of this range provides the well-being that all homes need.



Viseu
Residential

Location: Viseu (Portugal)
Units installed: 1x1 and Multisystem suite
Capacity: 216 kW

Other customers that have trusted Kaysun Suite

HOTELS
- Vera Apart-Hotel (Almería)
- Sangulí Resort Salou (Tarragona)

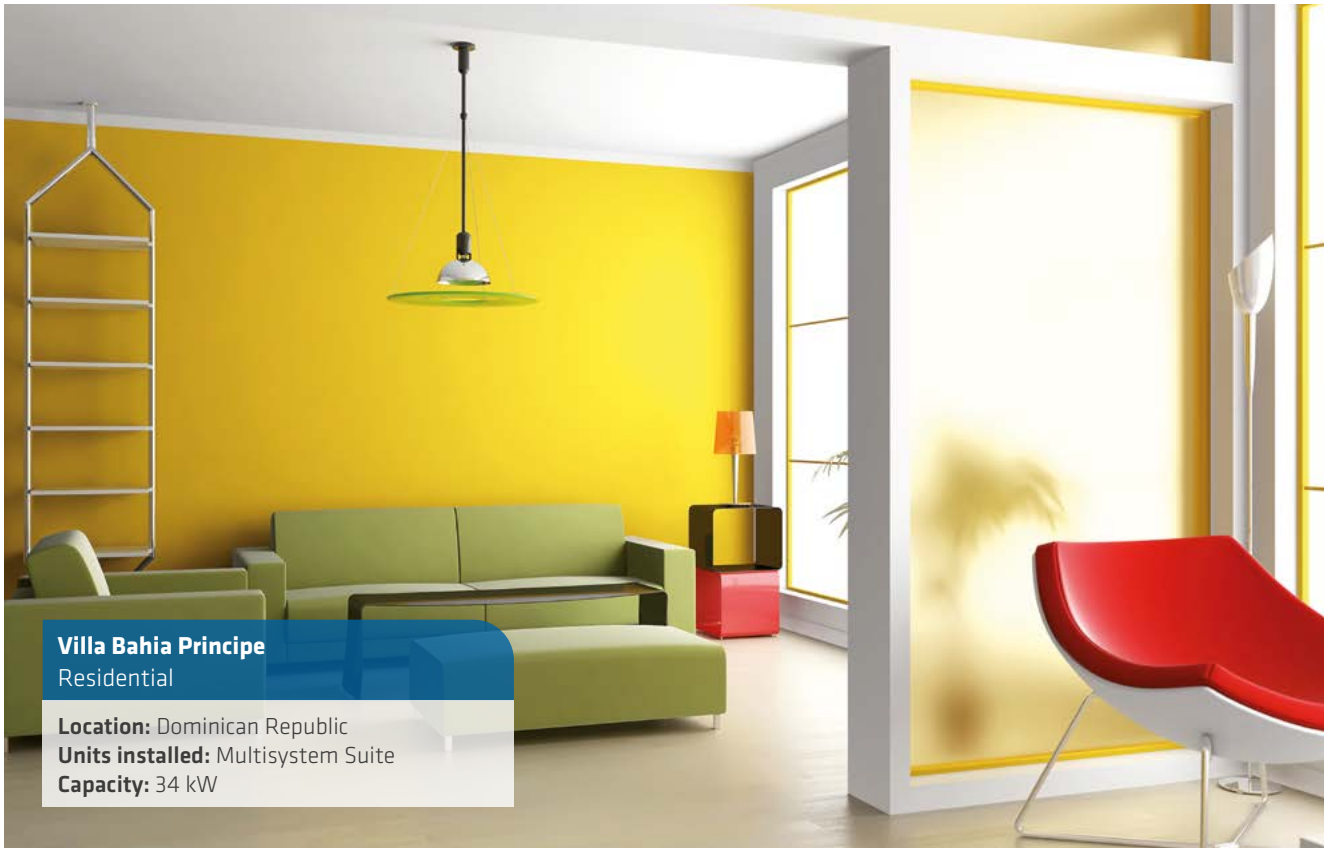
SCHOOLS AND UNIVERSITITES
- University of Salamanca (Salamanca)
- The Capuchins School (Murcia)
- María Maroto School (Murcia)
- Autism Association of Jerez (Cádiz)

LEISURE CENTRES
- Vals Sport - Sports Centre (Málaga)

HOSPITAL, CLINICS AND HEALTH CENTRES
- Jesús Nazareno Hospital (Córdoba)
- Santomera Health Centre (Murcia)

BUSINESS CENTRES AND OFFICES
- ISOLAIS Office (Seville)

RESIDENCES
- 51 residences in Carrión (Seville)
- 52 residences in Torreblanca (Seville)
- La Pineda Apartments (Tarragona)
- Puerto Mahón Apartments (Majorca)
- Jardines de Santa Ana Residence (Seville)

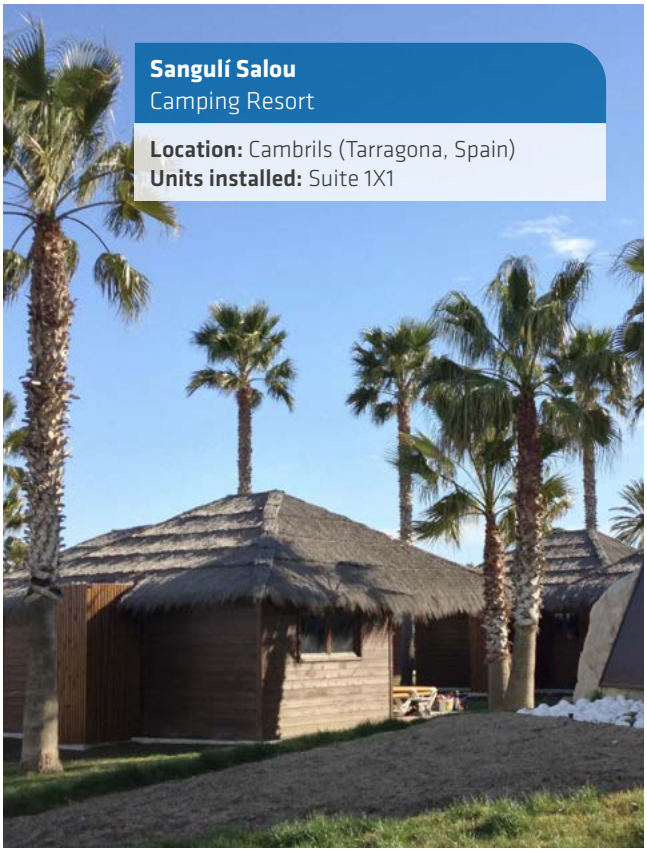


Villa Bahia Principe
Residential

Location: Dominican Republic
Units installed: Multisystem Suite
Capacity: 34 kW

Escuela Maria Maroto
School

Location: Murcia (Spain)
Units installed: Multisystem Suite



Sanguli Salou
Camping Resort

Location: Cambrils (Tarragona, Spain)
Units installed: Suite 1X1

Aquatix

Heat Pumps Range

Presentation of the range
Kaysun's Aquantia Pro Range

Aquantia KHPIS-BI PRO

Aquantia Bibloc Integrated
The ideal solution for integration in kitchens and bathrooms (600 x 600)
Integrated 190 or 240-litre stainless steel hot water tanks
Integration with solar PV for additional savings

Capacity kW (single-phase) 4 6 8 10 12 14 16

Capacity kW (three-phase) 14 16

SMART GRID READY · R-32 REFRIGERANT · DOMESTIC HOT WATER · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · CONFIGURATION VIA USB PORT · KEYMARK

Aquantia KHPMS-BI PRO

Aquantia Bibloc Wall-mounted
The ideal solution for replacing gas boilers and heaters
The most compact design in its category
Integration with solar PV for additional savings

Capacity kW (single-phase) 4 6 8 10 12 14 16

Capacity kW (three-phase) 14 16

SMART GRID READY · R-32 REFRIGERANT · DOMESTIC HOT WATER · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · CONFIGURATION VIA USB PORT · KEYMARK

Aquantia KHPS-MO

Aquantia Monobloc 100% hydraulic
The ideal solution for professionals who are not certified refrigerator specialists (100% hydraulic)
Cascade setting without special control
Integration with solar PV for additional savings

Capacity kW (single-phase) 4 6 8 10 12 14 16

Capacity kW (three-phase) 12 14 16

SMART GRID READY · R-32 REFRIGERANT · DOMESTIC HOT WATER · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · KEYMARK · MODULAR

Aquantia KHPS-MO PRO HP

Aquantia Monobloc High-power 100% hydraulic

The ideal solution for professionals who are not certified refrigerator specialists (100% hydraulic)
Integration with solar PV for additional savings
Climate control for large areas

Capacity kW 18 22 26 30

SMART GRID READY · R-32 REFRIGERANT · DOMESTIC HOT WATER · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · KEYMARK · MODULAR

Aquantia KHHP-BI

Solution with multi-hybrid system

KHHP-BI is the perfect solution for those seeking a compromise between an affordable, efficient system and one providing immediate comfort. Its wall-fitting hydraulic kit and set of ducts makes it the most versatile solution in the range.

Hydrokit capacity kW 8

R-32 REFRIGERANT · DOMESTIC HOT WATER · DC INVERTER COMPRESSOR · GOLDEN FIN · Wi-Fi

Compak

Compact unit with evaporator, condenser and DHW tank incorporated within hot water system. Produces and stores domestic hot water in an extremely efficient way. Also available in twin heat exchanger for integration of solar thermal installation.

Volume L 180 240

THERMAL SOLAR SUPPORT · SMART GRID READY · R-134A REFRIGERANT · DOMESTIC HOT WATER · Wi-Fi · ECO MODE · KEYMARK

Tanks for Domestic Hot Water

The Aerotermia range has tanks for domestic hot water and various accessories to complement the installation.

Volume L 270 475

DOMESTIC HOT WATER

Swimming Pool HP KSWP

New residential units for swimming pools. With a wide working range from -7°C to 43°C and its titanium exchanger, they can heat or cool any pool regardless of whether it is day, night or weather conditions.

Capacity kW 7 9 12 16 20

SMART GRID READY · R-32 REFRIGERANT · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · CONFIGURATION VIA USB PORT

What are the benefits of heat pumps?

Kaysun Aquantia is an integrated system that provides heating, cooling and domestic hot water to your home. Enjoy maximum comfort throughout the year, with the high energy efficiency provided by this reversible heat pump. The system extracts the energy contained in the air to provide heating in winter, cooling in summer and hot water all year round.
Aquantia, in addition to being more environmentally-friendly and energy efficient than other systems such as boilers, can replace them or work with them side by side.

NEW

Kaysun Aquantia

+ +

3-in-1 solution

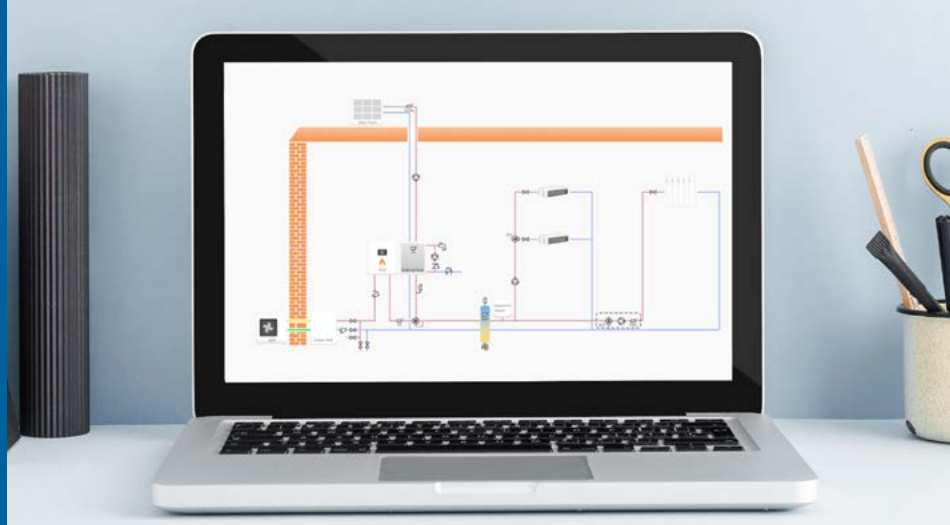
Kaysun

Kaysun has developed a new easy-to-use online software for the selection of aerothermal equipment, which allows you to select the most suitable equipment, obtaining a complete report with;

- Technical data of the unit
- Schematic diagram of principle
- Comparative vs. traditional systems
- Consumption graphs

Direct access with and without registration:

www.kaysun-hpselection.com



How does an air-to-water system work?

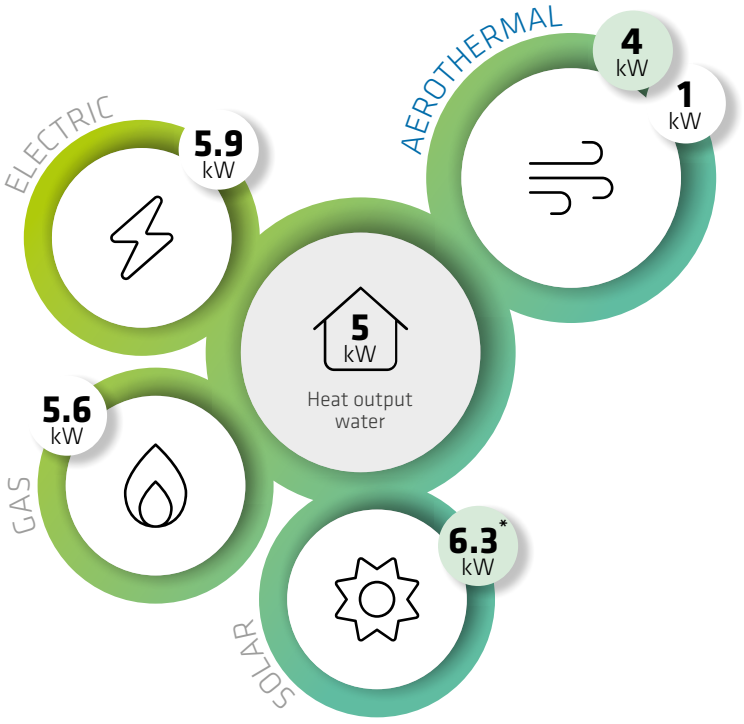
With an air-to-water heat pump, we are able to extract heat from the ambient air and transfer it indoors to use it as heating and/or domestic hot water (DHW).

As this heat pump technology is reversible, it can be used both for **heating and DHW, and for cooling** as well.

Even if the outside temperature is cold (down to -25°C) or very hot (over +35°C), the AQUANTIA unit will perform much better than traditional systems (such as gas or oil boilers), aiding the payback of the new installation.

With Air-to-water heat pumps, we can capture around 4 kWh of **free energy in the air** for every 1 kWh of electrical energy used, obtaining almost 5 kWh of thermal energy at the price of only 1 kWh of electricity, thus obtaining efficiencies of almost 500%.

Other traditional systems, apart from the fact that they normally cannot offer us cooling such as AQUANTIA heat pumps, have worse performance with efficiencies of around 100% or less.
Here are some reference values:



* Weather-dependent

Power input from traditional energies

Power input from renewable energy

Aquantia PRO
Main features

Kaysun presents its Air-Water systems, which by means of a heat pump perfectly cover the demands of air conditioning, heating and domestic hot water in your home. These highly energy efficient systems are well known for their ability to drastically reduce domestic electrical consumption. Only Kaysun can combine the latest technology and innovation to create Kaysun Aquantia, the system that provides your home with maximum comfort and energy performance throughout the year.

Smart, flexible system

The system self-regulates based on changes in outdoor temperature and the energy requirements of the installation or home in order to provide the optimum results at all times.

Water outlet at 65°C

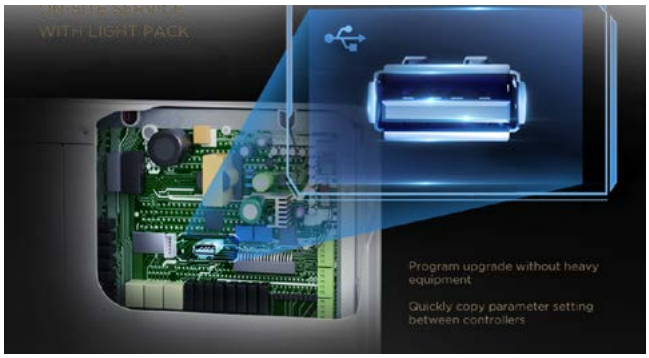
With a outlet water temperature up to 65°C at an outdoor temperature of +5°C and up to 60°C with an outdoor temperature of -15°C, Aquantia PRO assures thermal comfort under any conditions in addition to an accumulation of domestic hot water at 60°C.

R-32

The new gas R-32 reduces the necessary charge by 30%, has no effect on the ozone layer, and reduces its global warming impact by 70% in relation to its predecessor.

Compact dimensions

The indoor units of the KHPMS-BI PRO and KHPIS-BI PRO assemblies were developed as a result of the need to adapt to domestic environments of all types with the aim of replacing existing traditional equipment such as boilers.



Easy installation, start-up and maintenance

The new USB port allows the unit to be set in a few seconds and diagnostics to be performed in order to minimise the start-up or maintenance time.

Full integration within Acuazone

The entire Aquantia PRO range is compatible with the Acuazone control, designed specifically for multiple zone air-to-water systems (underfloor heating, fancoils, radiators, etc...up to 32 different services). Full integration within the Airzone gateway: Wifi, Amazon Alexa, Google Assistant, BACnet, KNX, Modbus RTU, etc.

Standards and prescription tools

The PRO range's solutions are compliant with most of European, national and regional legal frameworks to be considered a form of renewable energy and apply to grant schemes (e.g.: UK's MCS, Slovenia's EKO SKLAD, Germany's BAFA...).

Smart Home and BMS

The wired control included allows the user to enjoy a pleasant, intuitive experience capable of satisfying zoning needs of any nature. The possibility to control and monitor an installation using the Comfort Home app via WiFi and its integration with Amazon Alexa and Google Assistant makes the user experience even more enjoyable and, above all, efficient. Direct integration with ModBus RTU systems is also available.

ErP Directive

All the equipment in the Aquantia PRO range are equipped with the Smart Grid protocol as standard, with the aim of achieving the best compromise between comfort and savings on bills.

HP Keymark certification

The Aquantia PRO and Compak range solutions have HP Keymark certification. All technical specifications are certified to meet the most rigorous standards.

Aquantia KHPIS-BI PRO

Aquantia Bibloc Integrated

The KHPIS-BI PRO assembly is the **integrated multitask solution** from the Aquantia PRO range that provides thermal comfort in domestic environments where a lack of space could be a problem and it is necessary to integrate the installation within the design of the home. Thanks to the possibility of discharging water up to 65°C with an external temperature of 5 °C, it can provide heating via **high-efficiency radiators, fancoils and underfloor heating, and accumulate domestic hot water at 60°C** (integrated 190 or 240 litre tank), or even work in cooling mode.

The new USB port allows the settings of a unit to be replicated in a few seconds in order to **minimise the start-up or maintenance time**. Thanks to its special design, the unit is so silent that when operating it could be confused with the typical sounds of a natural setting. The use of top-quality components provides the KHPIS-BI PRO with the **highest possible ratings under the ErP directive** and the ability to be considered as a renewable energy system. Its performance promotes energy saving, care of the planet and savings on bills.

The wired control included with the indoor unit **allows the user to enjoy a pleasant, intuitive experience** capable of satisfying all manner of needs and zoning. The possibility to control and monitor an installation using the Comfort Home app makes the user experience even more enjoyable and, above all, efficient.

100% integrable

With its 600x600 surface, the indoor unit of the KHPIS-BI PRO assembly can be integrated within bathroom, kitchen and spare room furniture.

Efficiency and durability

The integrated indoor unit of the KHPIS- BI PRO assembly has an integrated stainless steel tank for domestic hot water fully insulated by a 4.5 cm polymer layer.

SMART GRID READY · R-32 REFRIGERANT · DOMESTIC HOT WATER · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · CONFIGURATION VIA USB PORT · KEYMARK

Set model	KHPIS-BI 4 PRO L KHPIS-BI 4 PRO XL	KHPIS-BI 6 PRO L KHPIS-BI 6 PRO XL
Set		
Outdoor unit	KHP-BI 4 DVR2	KHP-BI 6 DVR2
Indoor unit	KHPI-BI-10VR2L	KHPI-BI-10VR2L
Indoor unit XL	KHPI-BI-10VR2XL	KHPI-BI-10VR2XL
Heating capacity / COP (A+7°C / W+35°C); kW	4,25 / 5,20	6,20 / 5,00
Heating capacity / COP (A+7°C / W+55°C); kW	4,40 / 2,95	6,00 / 3,00
Heating capacity / COP (A-7°C / W+35°C); kW	4,70 / 3,10	6,00 / 3,00
Heating capacity / COP (A-7°C / W+55°C); kW	4,00 / 1,95	5,15 / 2,00
Cooling capacity / EER (A+35°C / W+18°C); kW	4,50 / 0,81	6,55 / 1,34
Cooling capacity / EER (A+35°C / W+7°C); kW	4,70 / 3,45	7,00 / 3,00
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	191 / 130	195 / 138
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4.85 / 3.31	4,95 / 3,52
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	255 / 162	260 / 165
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	6.46 / 4.14	6,57 / 4,19
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	160 / 102	165 / 111
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,06 / 2,63	4,21 / 2,85
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	197 / 308	211 / 325
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	4.99 / 7.77	5,34 / 8,21
Average climate in DHW. Keymark certification. η,ACS	127 (L) / 136 (XL)	127 (L) / 136 (XL)
Average climate in DHW. Keymark certification. SCOP,ACS	3,10 (L) / 3,34 (XL)	3,10 (L) / 3,34 (XL)
Average climate in DHW. Keymark certification. Energy class / Thread	A+/L // A+/XL	A+/L // A+/XL
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	30 / 65	30 / 65
Water pipe connections	1" / 3/4"	1" / 3/4"
Outdoor unit		
Width / Height / Depth; mm	1008 / 712 / 426	1008 / 712 / 426
Net weight; kg	60	58
Sound pressure; dB(A)	44	45
Sound power	56	58
Power supply; V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	18	18
Recommended wiring section, supply; mm^2	3x2,5	3x2,5
Recommended fuse, supply; A	D20	D20
Refrigerant; Type refrigerant	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.5	1.5
Refrigerant, Max. vertical distance with outdoor unit at the top; m	30	30
Refrigerant; Max. horizontal distance; m	50	50
Refrigerant, Liquid pipe; inch	1/4"	1/4"
Refrigerant, Gas pipe; inch	5/8"	5/8"
Indoor unit		
Width / Height / Depth; mm	600 / 1683 / 600	600 / 1683 / 600
Net weight; kg	139	139
Width / Height / Depth XL; mm	600 / 1943 / 600	600 / 1943 / 600
Net weight XL; kg	155	155
Capacity; l	190/240	190/240
Sound power	38	38
Sound pressure rated; dB(A)	25	25
Power supply	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	14.3	14.3
Recommended fuse, supply; A	C16	C16
Maximum pump pressure available	8.5	8.5
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43

Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.020 kg/m is required per each additional metre for models 4/6, and 0.038 kg/m per each additional metre for models 8/10/12/14/16.
(*): The power supply for indoor units is single-phase 220-240 V/1/50 Hz.

Aquantia KHPIS-BI PRO

Aquantia Bibloc Integrated

SMART GRID READY | R-32 REFRIGERANT | DOMESTIC HOT WATER | COOLING AND HEATING | COMPATIBLE WITH AIRZONE | Wi-Fi | MODBUS | CONFIGURATION VIA USB PORT | KEYMARK

Set model	KHPIS-BI 8 PRO L KHPIS-BI 8 PRO XL	KHPIS-BI 10 PRO L KHPIS-BI 10 PRO XL
Set		
Outdoor unit	KHP-BI 8 DVR2	KHP-BI 10 DVR2
Indoor unit	KHPI-BI-10VR2L	KHPI-BI-10VR2L
Indoor unit XL	KHPI-BI-10VR2XL	KHPI-BI-10VR2XL
Heating capacity / COP (A+7°C / W+35°C); kW	8,3 / 5,2	10 / 5
Heating capacity / COP (A+7°C / W+55°C); kW	7,5 / 3,18	9,5 / 3,1
Heating capacity / COP (A-7°C / W+35°C); kW	7 / 3,2	8 / 3,05
Heating capacity / COP (A-7°C / W+55°C); kW	6,15 / 2,05	6,85 / 2
Cooling capacity / EER (A+35°C / W+18°C); kW	8,4 / 1,66	10 / 2,08
Cooling capacity / EER (A+35°C / W+7°C); kW	7,4 / 3,38	8,2 / 3,3
Average heating climate (W+35°C / W+55°C). Keymark certification. ηs	205 / 132	205 / 137
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	5,21 / 3,36	5,19 / 3,49
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. ηs	277 / 177	281 / 180
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	6,99 / 4,5	7,09 / 4,58
Cold heating climate (W+35°C / W+55°C). Keymark certification. ηs	170 / 112	170 / 116
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,33 / 2,88	4,32 / 2,99
Chilling efficiency (W+7°C / W+18°C). Keymark certification. ηs,c	230 / 355	236 / 348
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	5,83 / 8,95	5,98 / 8,78
Average climate in DHW. Keymark certification. ηACS	125 (L) / 137 (XL)	125 (L) / 137 (XL)
Average climate in DHW. Keymark certification. SCOPACS	3,02 (L) / 3,36 (XL)	3,02 (L) / 3,36 (XL)
Average climate in DHW. Keymark certification. Energy class / Thread	A+/L // A+/XL	A+/L // A+/XL
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	30 / 65	30 / 65
Water pipe connections	1" / 3/4"	1" / 3/4"
Outdoor unit		
Width / Height / Depth; mm	1118 / 865 / 523	1118 / 865 / 523
Net weight; kg	77	77
Sound pressure; dB(A)	46	49
Sound power	59	60
Power supply; V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	19	19
Recommended wiring section, supply; mm^2	3x2,5	3x2,5
Recommended fuse, supply; A	D20	D20
Refrigerant; Type refrigerant	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.65	1.65
Refrigerant, Max. vertical distance with outdoor unit at the top; m	30	30
Refrigerant; Max. horizontal distance; m	50	50
Refrigerant, Liquid pipe; inch	3/8"	3/8"
Refrigerant, Gas pipe; inch	5/8"	5/8"
Indoor unit		
Width / Height / Depth; mm	600 / 1683 / 600	600 / 1683 / 600
Net weight; kg	139	139
Width / Height / Depth XL; mm	600 / 1943 / 600	600 / 1943 / 600
Net weight XL; kg	155	155
Capacity; l	190/240	190/240
Sound power	38	38
Sound pressure rated; dB(A)	25	25
Power supply	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	14.3	14.3
Recommended fuse, supply; A	C16	C16
Maximum pump pressure available	8.5	8.5
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43

Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.020 kg/m is required per each additional metre for models 4/6, and 0.038 kg/m per each additional metre for models 8/10/12/14/16.
(*): The power supply for indoor units is single-phase 220-240 V/1/50 Hz.

Set model	KHPIS-BI 12 PRO XL	KHPIS-BI 14 PRO XL
Set		
Outdoor unit	KHP-BI 12 DVR2	KHP-BI 14 DVR2
Indoor unit	KHPI-BI-16VR2XL	KHPI-BI-16VR2XL
Indoor unit XL		
Heating capacity / COP (A+7°C / W+35°C); kW	12,10 / 4,95	14,50 / 4,70
Heating capacity / COP (A+7°C / W+55°C); kW	12,00 / 3,1	13,80 / 3,00
Heating capacity / COP (A-7°C / W+35°C); kW	10,00 / 3,00	12,00 / 2,85
Heating capacity / COP (A-7°C / W+55°C); kW	9,8 / 2,05	11,00 / 2,05
Cooling capacity / EER (A+35°C / W+18°C); kW	12,00 / 4,00	13,50 / 3,60
Cooling capacity / EER (A+35°C / W+7°C); kW	11,60 / 2,75	12,70 / 2,55
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	189 / 135	186 / 136
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,81 / 3,45	4,72 / 3,47
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	256 / 174	260 / 175
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	6,48 / 4,43	6,58 / 4,45
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	160 / 118	160 / 119
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,08 / 3,02	4,07 / 3,05
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	192 / 281	191 / 273
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	4,89 / 7,1	4,86 / 6,90
Average climate in DHW. Keymark certification. η,ACS	123	123
Average climate in DHW. Keymark certification. SCOP,ACS	3	3
Average climate in DHW. Keymark certification. Energy class / Thread	A+ / XL	A+ / XL
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	30 / 65	30 / 65
Water pipe connections	1" / 3/4"	1" / 3/4"
Outdoor unit		
Width / Height / Depth; mm	1118 / 865 / 523	1118 / 865 / 523
Net weight; kg	96	96
Sound pressure; dB(A)	50	51
Sound power	64	65
Power supply; V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	30	30
Recommended wiring section, supply; mm^2	3x6	3x6
Recommended fuse, supply; A	D32	D32
Refrigerant; Type refrigerant	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.84	1.84
Refrigerant, Max. vertical distance with outdoor unit at the top; m	30	30
Refrigerant; Max. horizontal distance; m	50	50
Refrigerant, Liquid pipe; inch	3/8"	3/8"
Refrigerant, Gas pipe; inch	5/8"	5/8"
Indoor unit		
Width / Height / Depth; mm	600 / 1943 / 600	600 / 1943 / 600
Net weight; kg	155	155
Capacity; l	240	240
Sound power	44	44
Sound pressure rated; dB(A)	29	29
Power supply	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	14.3	14.3
Recommended fuse, supply; A	C16	C16
Maximum pump pressure available	8.5	8.5
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43

Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.020 kg/m is required per each additional metre for models 4/6, and 0.038 kg/m per each additional metre for models 8/10/12/14/16.
(*): The power supply for indoor units is single-phase 220-240 V/1/50 Hz.

Aquantia KHPIS-BI PRO

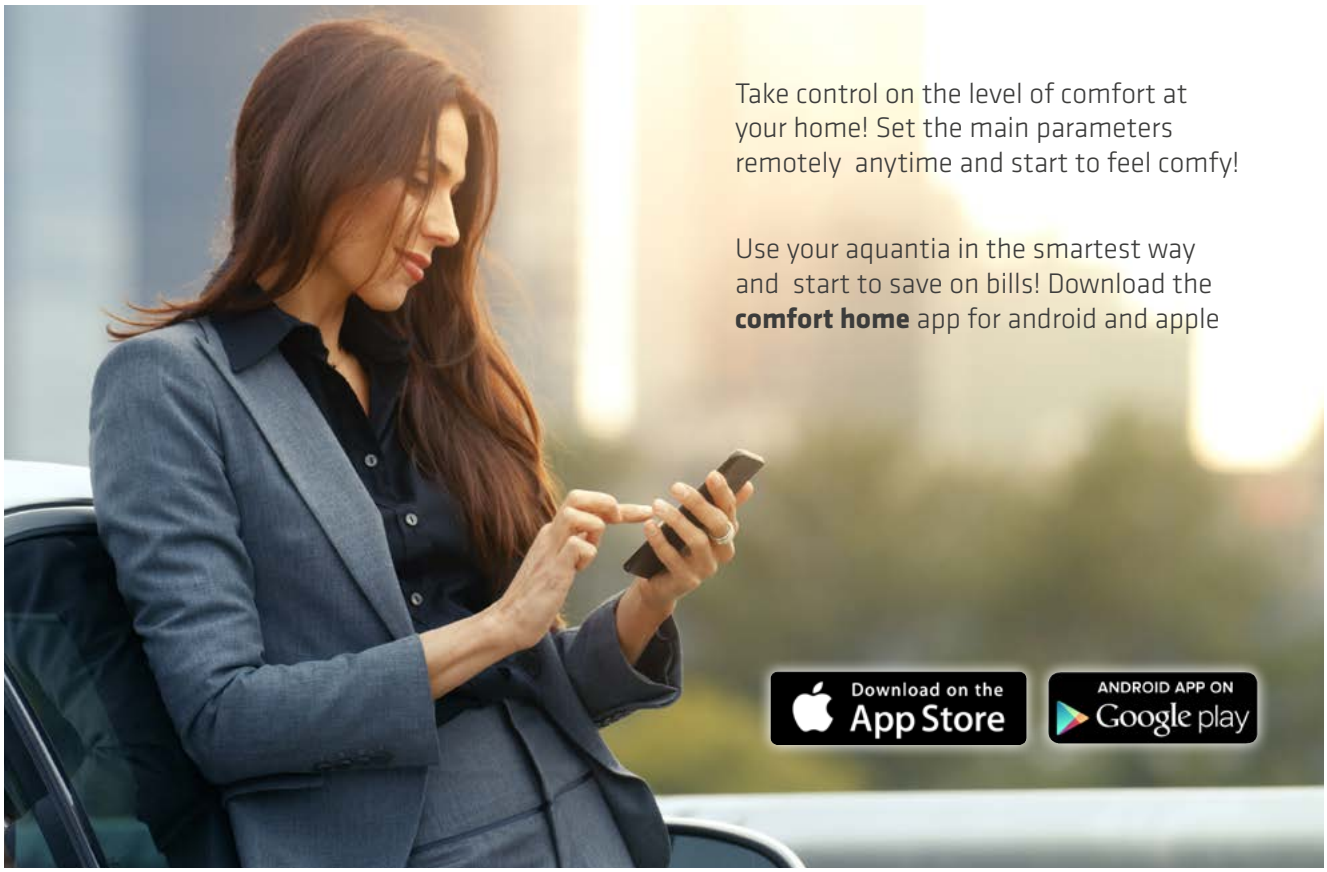
Aquantia Bibloc Integrated

SMART GRID READY · R-32 REFRIGERANT · DOMESTIC HOT WATER · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · CONFIGURATION VIA USB PORT · KEYMARK

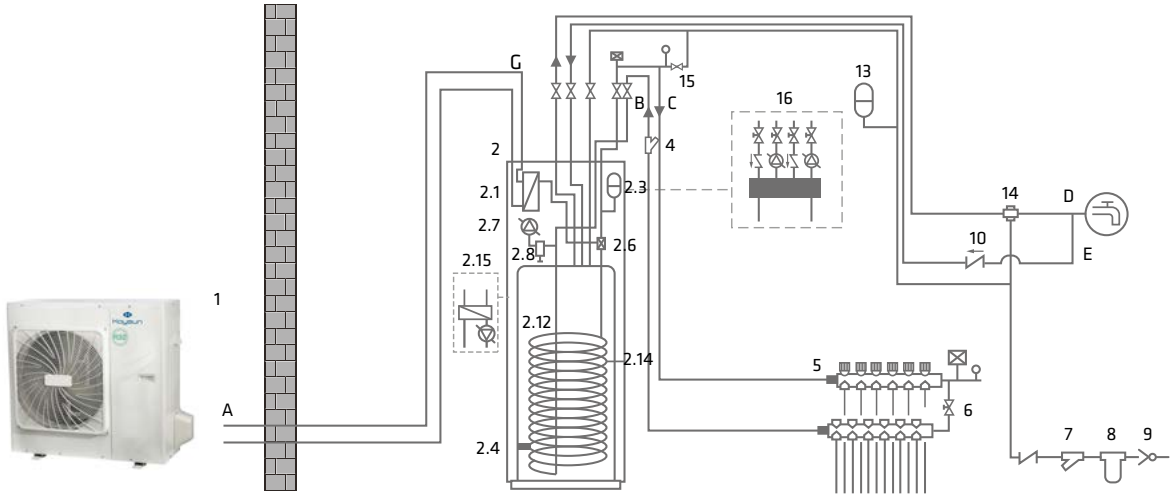
Set model	KHPIS-BI 16 PRO XL	KHPIS-BI 14T PRO XL	KHPIS-BI 16T PRO XL
Set			
Outdoor unit	KHP-BI 16 DVR2	KHP-BI 14 DTR2	KHP-BI 16 DTR2
Indoor unit	KHPI-BI-16VR2XL	KHPI-BI-16VR2XL	KHPI-BI-16VR2XL
Indoor unit XL			
Heating capacity / COP (A+7°C / W+35°C); kW	16,0 / 4,5	14,50 / 4,70	16,0 / 4,5
Heating capacity / COP (A+7°C / W+55°C); kW	16,0 / 2,9	13,80 / 3,00	16,0 / 2,9
Heating capacity / COP (A-7°C / W+35°C); kW	13,1 / 2,7	12,00 / 2,85	13,1 / 2,7
Heating capacity / COP (A-7°C / W+55°C); kW	12,5 / 2,0	11,00 / 2,05	12,50 / 2,0
Cooling capacity / EER (A+35°C / W+18°C); kW	14,9 / 3,4	13,50 / 3,60	14,9 / 3,4
Cooling capacity / EER (A+35°C / W+7°C); kW	14,0 / 2,45	12,70 / 2,55	14 / 2,45
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	182 / 133	186 / 136	182 / 133
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,62 / 3,41	4,72 / 3,47	4,62 / 3,41
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	249 / 176	260 / 175	248 / 176
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	6,29 / 4,48	6,57 / 4,44	6,28 / 4,47
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	158 / 122	160 / 119	158 / 122
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,02 / 3,12	4,07 / 3,02	4,02 / 3,12
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	184 / 267	190 / 271	184 / 265
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	4,69 / 6,75	4,83 / 6,85	4,67 / 6,71
Average climate in DHW. Keymark certification. η,ACS	123	123	123
Average climate in DHW. Keymark certification. SCOP,ACS	3	3	3
Average climate in DHW. Keymark certification. Energy class / Thread	A+ / XL	A+ / XL	A+ / XL
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	30 / 65	30 / 65	30 / 65
Water pipe connections	1" / 3/4"	1" / 3/4"	1" / 3/4"
Outdoor unit			
Width / Height / Depth; mm	1118 / 865 / 523	1118 / 865 / 523	1118 / 865 / 523
Net weight; kg	96	112	112
Sound pressure; dB(A)	55	51	55
Sound power	68	65	68
Power supply; V/ph/Hz	220-240 / 1 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Max. intensity; A	30	14	14
Recommended wiring section, supply; mm^2	3x6	5x2,5	5x2,5
Recommended fuse, supply; A	D32	D16	D16
Refrigerant; Type refrigerant	R-32	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.84	1.84	1.84
Refrigerant, Max. vertical distance with outdoor unit at the top; m	30	30	30
Refrigerant; Max. horizontal distance; m	50	50	50
Refrigerant, Liquid pipe; inch	3/8"	3/8"	3/8"
Refrigerant, Gas pipe; inch	5/8"	5/8"	5/8"
Indoor unit			
Width / Height / Depth; mm	600 / 1943 / 600	600 / 1943 / 600	600 / 1943 / 600
Net weight; kg	155	155	155
Capacity; l	240	240	240
Sound power	44	44	44
Sound pressure rated; dB(A)	29	29	29
Power supply	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	14.3	14.3	14.3
Recommended fuse, supply; A	C16	C16	C16
Maximum pump pressure available	8.5	8.5	8.5
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43	-25 / 43

Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.020 kg/m is required per each additional metre for models 4/6, and 0.038 kg/m per each additional metre for models 8/10/12/14/16.
(*): The power supply for indoor units is single-phase 220-240 V/1/50 Hz.

Aquantia PRO sets are now connected



KHPIS-BI PRO, simplified installation diagram



1. Outdoor unit
2. Indoor unit
2.1. Gas-water exchanger
2.3. Expansion vessel
2.4. Security valve
2.6. 3WV DHW
2.7. ACS pump
2.8. Filter
2.12. DHW tank
2.14. Backup heater DHW
2.15. PV kit
2.15. Y filter
5. Collectors
6. Collectors bypass
7. DHW filter
8. Water inlet treatment
9. Pressure reducer
10. Recirculation's backflow valve
13. DHW expansion vessel
14. Thermostatic valve
16. KIRE2HLX
19. Buffer tank
A) Gas piping
B) Return
C) Impulsion
D) DHW
E) DHW recirculation
F) Water inlet
G) Gas

This installation diagram a simplified version, for further information please visit our website, check the Aquatix range manuals or contact our presales department.

Aquantia KHPMS-BI PRO

Aquantia Bibloc Wall-mounted

The KHPMS-BI PRO assembly is the **multi-task modular solution** from the Aquantia PRO range that provides thermal comfort for medium to large spaces. Thanks to the possibility of discharging water up to 65°C with an external temperature of 5°C, it can provide heating via **high-efficiency radiators, fancoils and underfloor heating, and accumulate domestic hot water at 60°C**, or even work in cooling mode.
The new USB port allows the unit to be set in a few seconds and diagnostics to be performed in order to **minimise the startup or maintenance time**. Thanks to its special design, the unit is **so silent** that it could be confused with the typical sounds of a natural setting when operating.

The use of top-quality components provides the KHPMS-BI PRO with the **highest possible ratings under the ErP directive** and the ability to be considered as a renewable energy system. Its performance promotes energy saving, care of the planet and savings on bills.
The wired control included with the indoor unit **allows the user to enjoy a pleasant intuitive experience** capable of satisfying all manner of needs and zoning. The possibility to control and monitor an installation using the Comfort Home app makes the user experience even more enjoyable and, above all, efficient.

Renew the installation and save!

Minimalist design indoor unit and selected materials, perfect to replace wall gas boilers and heaters.
* The radiators are for the sole purpose of heating.

Use patios and balconies

Just one fan for all units up to 16 kW, minimizing the used space and providing greater use of covers and patios/ balconies.

Optional DHW tank

SMART GRID READY | R-32 REFRIGERANT | DOMESTIC HOT WATER | COOLING AND HEATING | COMPATIBLE WITH AIRZONE | Wi-Fi | MODBUS | CONFIGURATION VIA USB PORT | KEYMARK

Set model	KHPMS-BI 4 PRO	KHPMS-BI 6 PRO	KHPMS-BI 8 PRO
Set			
Outdoor unit	KHP-BI 4 DVR2	KHP-BI 6 DVR2	KHP-BI 8 DVR2
Indoor unit	KHPM-BI 6 DVR2	KHPM-BI 6 DVR2	KHPM-BI 10 DVR2
Optional DHW tank	BSX270	BSX270	BSX270/475
Heating capacity / COP (A+7°C / W+35°C); kW	4,25 / 5,2	6,2 / 5	8,3 / 5,2
Heating capacity / COP (A+7°C / W+55°C); kW	4,4 / 2,95	6 / 3	7,5 / 3,18
Heating capacity / COP (A-7°C / W+35°C); kW	4,7 / 3,1	6 / 3	7 / 3,2
Heating capacity / COP (A-7°C / W+55°C); kW	4 / 1,95	5,15 / 2	6,15 / 2,05
Cooling capacity / EER (A+35°C / W+18°C); kW	4,5 / 0,81	6,55 / 1,34	8,4 / 1,66
Cooling capacity / EER (A+35°C / W+7°C); kW	4,7 / 3,45	7 / 3	7,4 / 3,38
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	191 / 130	195 / 138	206 / 132
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,85 / 3,31	4,95 / 3,52	5,22 / 3,36
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	255 / 162	260 / 165	277 / 177
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	6,46 / 4,14	6,57 / 4,19	6,99 / 4,5
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	160 / 102	165 / 111	170 / 112
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,06 / 2,63	4,21 / 2,85	4,33 / 2,88
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	197 / 308	211 / 325	230 / 355
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	4,99 / 7,77	5,34 / 8,21	5,83 / 8,95
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	30 / 65	30 / 65	30 / 65
Water pipe connections	1"	1"	1"
Outdoor unit			
Width / Height / Depth; mm	1008 / 712 / 426	1008 / 712 / 426	1118 / 865 / 523
Net weight; kg	60	58	77
Sound pressure; dB(A)	44	45	46
Sound power	56	58	59
Power supply; V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	18	18	19
Recommended wiring section, supply; mm^2	3x2,5	3x2,5	3x2,5
Recommended fuse, supply; A	D20	D20	D20
Enamelled/stainless steel DHW coil minimum area	2.0 / 1.4	2.0 / 1.4	2.0 / 1.4
Refrigerant; Type refrigerant	R-32	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.5	1.5	1.65
Refrigerant, Max. vertical distance with outdoor unit at the top; m	30	30	30
Refrigerant; Max. horizontal distance; m	50	50	50
Refrigerant, Liquid pipe; inch	1/4"	1/4"	3/8"
Refrigerant, Gas pipe; inch	5/8"	5/8"	5/8"
Indoor unit			
Width / Height / Depth; mm	420 / 790 / 270	420 / 790 / 270	420 / 790 / 270
Net weight; kg	37	37	37
Sound power	38	38	38
Sound pressure rated; dB(A)	28	28	30
Power supply	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	14.3	14.3	14.3
Recommended fuse, supply; A	C16	C16	C16
Maximum pump pressure available	8.5	8.5	8.5
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43	-25 / 43

Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.020 kg/m is required per each additional metre for models 4/6, and 0.038 kg/m per each additional metre for models 8/10/12/14/16.
(*): The power supply for indoor units is single-phase 220-240 V/1/50 Hz.

Aquantia KHPMS-BI PRO

Aquantia Bibloc Wall-mounted

SMART GRID READY | R-32 REFRIGERANT | DOMESTIC HOT WATER | COOLING AND HEATING | COMPATIBLE WITH AIRZONE | Wi-Fi | MODBUS | CONFIGURATION VIA USB PORT | KEYMARK

Set model	KHPMS-BI 10 PRO	KHPMS-BI 12 PRO
Set		
Outdoor unit	KHP-BI 10 DVR2	KHP-BI 12 DVR2
Indoor unit	KHPM-BI 10 DVR2	KHPM-BI 16 DVR2
Optional DHW tank	BSX270/475	BSX270/475
Heating capacity / COP (A+7°C / W+35°C); kW	10 / 5	12,1 / 4,95
Heating capacity / COP (A+7°C / W+55°C); kW	9,5 / 3,1	12 / 3,1
Heating capacity / COP (A-7°C / W+35°C); kW	8 / 3,05	10 / 3
Heating capacity / COP (A-7°C / W+55°C); kW	6,85 / 2	9,8 / 2,05
Cooling capacity / EER (A+35°C / W+18°C); kW	10 / 2,08	12 / 4
Cooling capacity / EER (A+35°C / W+7°C); kW	8,2 / 3,3	11,6 / 2,75
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	205 / 137	189 / 135
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	5,2 / 3,49	4,81 / 3,45
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	281 / 180	256 / 174
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	7,09 / 4,58	6,48 / 4,43
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	170 / 116	160 / 118
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,32 / 2,99	4,08 / 3,02
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	236 / 348	192 / 281
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	5,98 / 8,78	4,89 / 7,1
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	30 / 65	30 / 65
Water pipe connections	1"	1"
Outdoor unit		
Width / Height / Depth; mm	1118 / 865 / 523	1118 / 865 / 523
Net weight; kg	77	96
Sound pressure; dB(A)	49	50
Sound power	60	64
Power supply; V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	19	30
Recommended wiring section, supply; mm^2	3x2,5	3x6
Recommended fuse, supply; A	D20	D32
Enamelled/stainless steel DHW coil minimum area	2.0 / 1.4	2.5 / 1.6
Refrigerant; Type refrigerant	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.65	1.84
Refrigerant, Max. vertical distance with outdoor unit at the top; m	30	30
Refrigerant; Max. horizontal distance; m	50	50
Refrigerant, Liquid pipe; inch	3/8"	3/8"
Refrigerant, Gas pipe; inch	5/8"	5/8"
Indoor unit		
Width / Height / Depth; mm	420 / 790 / 270	420 / 790 / 270
Net weight; kg	37	39
Sound power	38	44
Sound pressure rated; dB(A)	30	32
Power supply	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	14.3	14.3
Recommended fuse, supply; A	C16	C16
Maximum pump pressure available	8.5	8.5
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43

Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.020 kg/m is required per each additional metre for models 4/6, and 0.038 kg/m per each additional metre for models 8/10/12/14/16.
(*): The power supply for indoor units is single-phase 220-240 V/1/50 Hz.

Optional DHW tank

Set model	KHPMS-BI 14 PRO	KHPMS-BI 16 PRO
Set		
Outdoor unit	KHP-BI 14 DVR2	KHP-BI 16 DVR2
Indoor unit	KHPM-BI 16 DVR2	KHPM-BI 16 DVR2
Optional DHW tank	BSX270/475	BSX270/475
Heating capacity / COP (A+7°C / W+35°C); kW	14,5 / 4,7	16 / 4,5
Heating capacity / COP (A+7°C / W+55°C); kW	13,8 / 3	16 / 2,9
Heating capacity / COP (A-7°C / W+35°C); kW	12 / 2,85	13,1 / 2,7
Heating capacity / COP (A-7°C / W+55°C); kW	11 / 2,05	12,5 / 2
Cooling capacity / EER (A+35°C / W+18°C); kW	13,5 / 3,6	14,9 / 3,4
Cooling capacity / EER (A+35°C / W+7°C); kW	12,7 / 2,55	14 / 2,45
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	186 / 136	182 / 133
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,72 / 3,47	4,62 / 3,41
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	260 / 175	249 / 176
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	6,58 / 4,45	6,29 / 4,48
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	160 / 119	158 / 122
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,07 / 3,05	4,02 / 3,12
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	191 / 273	184 / 267
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	4,86 / 6,9	4,69 / 6,75
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	30 / 65	30 / 65
Water pipe connections	1"	1"
Outdoor unit		
Width / Height / Depth; mm	1118 / 865 / 523	1118 / 865 / 523
Net weight; kg	96	96
Sound pressure; dB(A)	51	51
Sound power	65	68
Power supply; V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	30	30
Recommended wiring section, supply; mm^2	3x6	3x6
Recommended fuse, supply; A	D32	D32
Enamelled/stainless steel DHW coil minimum area	2.5 / 1.6	2.5 / 1.6
Refrigerant; Type refrigerant	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.84	1.84
Refrigerant, Max. vertical distance with outdoor unit at the top; m	30	30
Refrigerant; Max. horizontal distance; m	50	50
Refrigerant, Liquid pipe; inch	3/8"	3/8"
Refrigerant, Gas pipe; inch	5/8"	5/8"
Indoor unit		
Width / Height / Depth; mm	420 / 790 / 270	420 / 790 / 270
Net weight; kg	39	39
Sound power	44	44
Sound pressure rated; dB(A)	32	32
Power supply	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	14.3	14.3
Recommended fuse, supply; A	C16	C16
Maximum pump pressure available	8.5	8.5
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43

Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.020 kg/m is required per each additional metre for models 4/6, and 0.038 kg/m per each additional metre for models 8/10/12/14/16.
(*): The power supply for indoor units is single-phase 220-240 V/1/50 Hz.

Aquantia KHPMS-BI PRO

Aquantia Bibloc Wall-mounted

Optional DHW tank

SMART GRID READY | R-32 REFRIGERANT | DOMESTIC HOT WATER | COOLING AND HEATING | COMPATIBLE WITH AIRZONE | Wi-Fi | MODBUS | CONFIGURATION VIA USB PORT | KEYMARK

Set model	KHPMS-BI 14T PRO	KHPMS-BI 16T PRO
Set		
Outdoor unit	KHP-BI 14 DTR2	KHP-BI 16 DTR2
Indoor unit	KHPM-BI 16 DVR2	KHPM-BI 16 DVR2
Optional DHW tank	BSX270/475	BSX270/475
Heating capacity / COP (A+7°C / W+35°C); kW	14,5 / 4,7	16 / 4,5
Heating capacity / COP (A+7°C / W+55°C); kW	13,8 / 3	16 / 2,9
Heating capacity / COP (A-7°C / W+35°C); kW	12 / 2,8	13,3 / 2,7
Heating capacity / COP (A-7°C / W+55°C); kW	11 / 2,05	12,5 / 2,02
Cooling capacity / EER (A+35°C / W+18°C); kW	13,5 / 3,6	14,9 / 3,4
Cooling capacity / EER (A+35°C / W+7°C); kW	12,7 / 2,55	14 / 2,45
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	186 / 136	182 / 133
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,72 / 3,47	4,62 / 3,41
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	260 / 175	248 / 176
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	6,57 / 4,44	6,28 / 4,47
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	160 / 119	158 / 122
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,07 / 3,02	4,02 / 3,12
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	190 / 271	184 / 265
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	4,83 / 6,85	4,67 / 6,71
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	30 / 65	30 / 65
Water pipe connections	1"	1"
Outdoor unit		
Width / Height / Depth; mm	1118 / 865 / 523	1118 / 865 / 523
Net weight; kg	112	112
Sound pressure; dB(A)	55	55
Sound power	65	68
Power supply; V/ph/Hz	380-415 / 3 / 50	380-415 / 3 / 50
Max. intensity; A	14	14
Recommended wiring section, supply; mm^2	5x2,5	5x2,5
Recommended fuse, supply; A	D16	D16
Enamelled/stainless steel DHW coil minimum area	2.5 / 1.6	2.5 / 1.6
Refrigerant; Type refrigerant	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.84	1.84
Refrigerant, Max. vertical distance with outdoor unit at the top; m	30	30
Refrigerant; Max. horizontal distance; m	50	50
Refrigerant, Liquid pipe; inch	3/8"	3/8"
Refrigerant, Gas pipe; inch	5/8"	5/8"
Indoor unit		
Width / Height / Depth; mm	420 / 790 / 270	420 / 790 / 270
Net weight; kg	39	39
Sound power	44	44
Sound pressure rated; dB(A)	32	32
Power supply	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	14.3	14.3
Recommended fuse, supply; A	C16	C16
Maximum pump pressure available	8.5	8.5
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43

Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.020 kg/m is required per each additional metre for models 4/6, and 0.038 kg/m per each additional metre for models 8/10/12/14/16.
(*): The power supply for indoor units is single-phase 220-240 V/1/50 Hz.

Combine Aquantia PRO with your PV facility!

The entire PRO range is capable of using energy from a photovoltaic system and storing energy during more favourable hours. In addition, thanks to the Smart Grid protocol, Aquantia uses data from the solar switchboard and smart electrical energy meter to save on bills without neglecting the user's thermal comfort.

Comprehensive projects

Our team of expert technicians carry out comprehensive air conditioning and ventilation projects specific to each client, adapting to any space and need. This service is complemented by personalised advice to ensure our facilities operate correctly.

Aquantia KHPS-MO

Aquantia Monobloc 100% hydraulic

The KHPS-MO PRO assembly is the **multi-task modular solution** from the Aquantia PRO range that provides thermal comfort for small and medium spaces. Thanks to the possibility of discharging water up to 65°C with an external temperature of 5°C (up to 60°C with KHPS- MO PRO HP), it can provide heating via **high-efficiency radiators, fancoils and underfloor heating, and accumulate domestic hot water at 60°C** , or even work in cooling mode.

The new USB port allows the unit to be set in a few seconds and diagnostics to be performed in order to **minimise the start-up or maintenance time**. Thanks to its special design, the unit is so silent that it could be confused with the typical sounds of a natural setting when operating. The use of top-quality components provides the KHPS-MO PRO with the **highest possible ratings under the ErP directive** and the ability to be considered as a renewable energy system. Its performance promotes energy saving, care of the planet and savings on bills.

The wired control included **allows the user to enjoy a pleasant, intuitive experience** capable of satisfying zoning needs of any nature. The possibility to control and monitor an installation using the Comfort Home app makes the user experience even more enjoyable and, above all, efficient.

Modular and money-saving!

The possibility of cascade setting without special control. The best solution for staggering the power delivered to holiday homes, the replacement of centralised systems and systems in second homes. * The radiators are for the sole purpose of heating.

No need for certified refrigerator specialist status

100% water solution, perfect for professionals who are not certified to handle refrigerant gases, as for the outdoor unit of the KHPS-MO PRO assembly it is only necessary to connect the discharge and return for the hydraulic piping.

KCTAQ-02
Included as standard, with built-in Modbus gateway

Optional DHW tank

SMART GRID READY · R-32 REFRIGERANT · DOMESTIC HOT WATER · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · KEYMARK · MODULAR

Set model	KHPS-MO 4 PRO	KHPS-MO 6 PRO	KHPS-MO 8 PRO	KHPS-MO 10 PRO	KHPS-MO 12 PRO
Set					
Outdoor unit	KHP-MO 4 DVR2	KHP-MO 6 DVR2	KHP-MO 8 DVR2	KHP-MO 10 DVR2	KHP-MO 12 DVR2
Optional DHW tank	BSX270	BSX270	BSX270	BSX270/475	BSX270/475
Heating capacity / COP (A+7°C / W+35°C); kW	4,2 / 5,1	6,35 / 4,95	8,4 / 5,15	10 / 4,95	12,1 / 4,95
Heating capacity / COP (A+7°C / W+55°C); kW	4,4 / 2,95	6 / 2,95	7,5 / 3,18	9,5 / 3,1	11,9 / 3,05
Heating capacity / COP (A-7°C / W+35°C); kW	4,7 / 3,1	6 / 3	7 / 3,2	8 / 3,05	10 / 3
Heating capacity / COP (A-7°C / W+55°C); kW	4 / 1,95	5,15 / 2	6,15 / 2,05	6,85 / 2	9,8 / 2,05
Cooling capacity / EER (A+35°C / W+18°C); kW	4,5 / 5,5	6,5 / 4,8	8,3 / 5,05	9,9 / 4,55	12 / 3,95
Cooling capacity / EER (A+35°C / W+7°C); kW	4,7 / 3,45	7 / 3	7,45 / 3,35	8,2 / 3,25	11,5 / 2,75
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	191 / 130	195 / 138	206 / 132	205 / 136	189 / 135
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,85 / 3,31	4,95 / 3,52	5,22 / 3,37	5,2 / 3,47	4,81 / 3,45
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	255 / 163	260 / 165	277 / 177	281 / 182	256 / 174
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	6,46 / 4,15	6,57 / 4,21	6,99 / 4,51	7,09 / 4,62	6,48 / 4,43
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	160 / 102	165 / 111	170 / 112	170 / 117	160 / 118
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,06 / 2,63	4,21 / 2,85	4,33 / 2,88	4,32 / 2,99	4,08 / 3,02
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	197 / 308	211 / 325	230 / 355	236 / 348	192 / 281
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	4,99 / 7,77	5,34 / 8,21	5,83 / 8,95	5,98 / 8,78	4,89 / 7,1
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	40 / 65	40 / 65	40 / 65	40 / 65	40 / 65
Outdoor unit					
Width / Height / Depth; mm	1295 / 792 / 429	1295 / 792 / 429	1385 / 945 / 526	1385 / 945 / 526	1385 / 945 / 526
Net weight; kg	98	86	132	132	155
Sound pressure; dB(A)	58	47.5	48.5	50.5	53
Sound power	55	58	59	60	65
Power supply; V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	31	31	32	32	43
Recommended wiring section, supply; mm^2	3x6	3x6	3x6	3x6	3x10
Recommended fuse, supply; A	D32	D32	D32	D32	D45
Water pipe connections; inch	1"	1"	1 1/4"	1 1/4"	1 1/4"
Enamelled/stainless steel DHW coil minimum area	2.0 / 1.4	2.0 / 1.4	2.0 / 1.4	2.0 / 1.4	2.5 / 1.6
Refrigerant; Type refrigerant	R-32	R-32	R-32	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.4	1.4	1.4	1.4	1.75
Maximum pump pressure available	8.5	8.5	8.5	8.5	8.5
Working range					
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43

Aquantia KHPS-MO

Aquantia Monobloc 100% hydraulic

KCTAQ-02
Included as standard, with built-in Modbus gateway

Optional DHW tank

SMART GRID READY · R-32 REFRIGERANT · DOMESTIC HOT WATER · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · KEYMARK · MODULAR

Set model	KHPS-MO 14 PRO	KHPS-MO 16 PRO	KHPS-MO 12T PRO	KHPS-MO 14T PRO	KHPS-MO 16T PRO
Set					
Outdoor unit	KHP-MO 14 DVR2	KHP-MO 16 DVR2	KHP-MO 12 DTR2	KHP-MO 14 DTR2	KHP-MO 16 DTR2
Optional DHW tank	BSX270/475	BSX270/475	BSX270/475	BSX270/475	BSX270/475
Heating capacity / COP (A+7°C / W+35°C); kW	14,5 / 4,6	15,9 / 4,5	12,1 / 4,95	14,5 / 4,6	15,9 / 4,5
Heating capacity / COP (A+7°C / W+55°C); kW	13,8 / 2,95	16 / 2,85	11,9 / 3,05	13,8 / 2,95	16 / 2,85
Heating capacity / COP (A-7°C / W+35°C); kW	12 / 2,85	13,1 / 2,7	10 / 3	12 / 2,85	13,1 / 2,7
Heating capacity / COP (A-7°C / W+55°C); kW	11 / 2,05	12,5 / 2	9,8 / 2,05	11 / 2,05	12,5 / 2
Cooling capacity / EER (A+35°C / W+18°C); kW	13,5 / 3,6	14,9 / 3,4	12 / 3,95	13,5 / 3,6	14,9 / 3,4
Cooling capacity / EER (A+35°C / W+7°C); kW	12,4 / 2,5	14 / 2,5	11,5 / 2,75	12,4 / 2,5	14 / 2,5
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	186 / 136	182 / 133	189 / 135	186 / 136	182 / 133
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,72 / 3,47	4,62 / 3,41	4,81 / 3,45	4,72 / 3,47	4,62 / 3,41
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	260 / 177	249 / 176	256 / 174	260 / 176	248 / 176
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	6,58 / 4,49	6,29 / 4,48	6,49 / 4,42	6,57 / 4,49	6,28 / 4,47
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	160 / 119	158 / 122	160 / 118	160 / 119	158 / 122
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,07 / 3,05	4,02 / 3,12	4,08 / 3,02	4,07 / 3,05	4,02 / 3,12
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	191 / 273	184 / 267	191 / 279	190 / 271	184 / 265
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	4,86 / 6,9	4,69 / 6,75	4,86 / 7,04	4,83 / 6,85	4,67 / 6,71
Water outlet temperature; Heating min. / max.; °C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	40 / 65	40 / 65	40 / 65	40 / 65	40 / 65
Outdoor unit					
Width / Height / Depth; mm	1385 / 945 / 526	1385 / 945 / 526	1385 / 945 / 526	1385 / 945 / 526	1385 / 945 / 526
Net weight; kg	155	155	172	172	172
Sound pressure; dB(A)	53.5	57.5	53.5	54	58
Sound power	65	68	65	65	68
Power supply; V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Max. intensity; A	43	43	27	27	27
Recommended wiring section, supply; mm^2	3x10	3x10	5x6	5x6	5x6
Recommended fuse, supply; A	D45	D45	D32	D32	D32
Water pipe connections; inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Enamelled/stainless steel DHW coil minimum area	2.5 / 1.6	2.5 / 1.6	2.5 / 1.6	2.5 / 1.6	2.5 / 1.6
Refrigerant; Type refrigerant	R-32	R-32	R-32	R-32	R-32
Refrigerant, Refrigerant charge; kg	1.75	1.75	1.75	1.75	1.75
Maximum pump pressure available	8.5	8.5	8.5	8.5	8.5
Working range					
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43

Aquantia KHPS-MO PRO HP

Aquantia Monobloc High-power 100% hydraulic

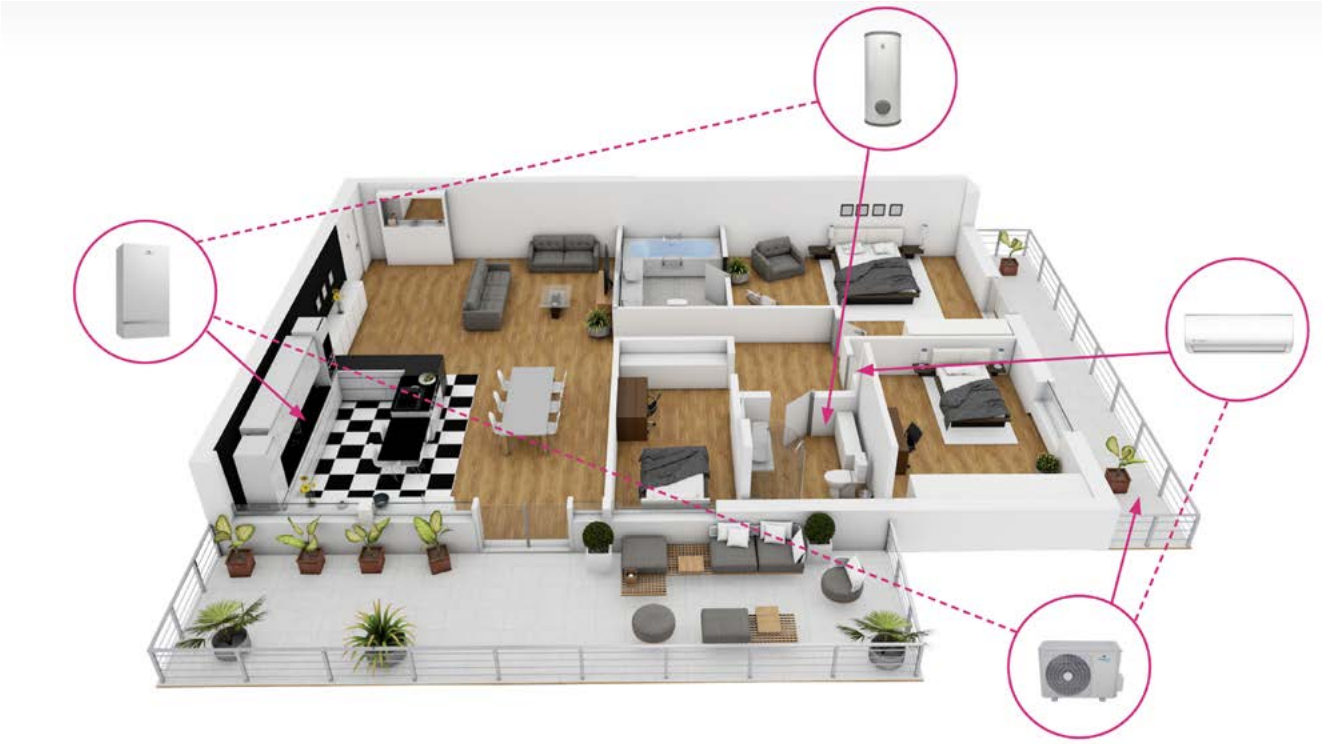
KCTAQ-02
Included as standard, with built-in Modbus gateway

SMART GRID READY · R-32 REFRIGERANT · DOMESTIC HOT WATER · COOLING AND HEATING · COMPATIBLE WITH AIRZONE · Wi-Fi · MODBUS · KEYMARK · MODULAR

Set model	KHPS-MO 18 PRO HP	KHPS-MO 22 PRO HP	KHPS-MO 26 PRO HP	KHPS-MO 30 PRO HP
Set				
Outdoor unit	KHP-MO 18 DTR2	KHP-MO 22 DTR2	KHP-MO 26 DTR2	KHP-MO 30 DTR2
Heating capacity / COP (A+7°C / W+35°C); kW	18,0 / 4,70	22,0 / 4,40	26,0 / 4,08	30,1 / 3,91
Heating capacity / COP (A+7°C / W+55°C); kW	18,0 / 2,75	22,0 / 2,65	26,0 / 2,45	30,0 / 2,30
Heating capacity / COP (A-7°C / W+35°C); kW	18,0 / 2,70	21,0 / 2,60	22,0 / 2,50	23,0 / 2,45
Cooling capacity / EER (A+35°C / W+18°C); kW	18,5 / 4,75	23,0 / 4,60	27,0 / 4,30	31,0 / 4,00
Cooling capacity / EER (A+35°C / W+7°C); kW	17,0 / 3,05	21,0 / 2,95	26,0 / 2,70	29,5 / 2,55
Average heating climate (W+35°C / W+55°C). Keymark certification. η,s	181 / 125	178 / 126	177 / 123	165 / 123
Average heating climate (W+35°C / W+55°C). Keymark certification. SCOP	4,6 / 3,20	4,5 / 3,23	4,5 / 3,15	4,2 / 3,15
Average heating climate (W+35°C / W+55°C). Keymark certification. Energy class	A+++ / A++	A+++ / A++	A+++ / A+	A++ / A+
Warm heating climate (W+35°C / W+55°C). Keymark certification. η,s	226 / 157	234 / 161	231 / 168	213 / 163
Warm heating climate (W+35°C / W+55°C). Keymark certification. SCOP	5,73 / 4,00	5,93 / 4,10	5,85 / 4,28	5,4 / 4,15
Cold heating climate (W+35°C / W+55°C). Keymark certification. η,s	146 / 97	146 / 102	143 / 101	138 / 100
Cold heating climate (W+35°C / W+55°C). Keymark certification. SCOP	3,73 / 2,50	3,73 / 2,63	3,65 / 2,60	3,53 / 2,58
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η,s,c	185 / 216	185 / 224	183 / 226	177 / 225
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER	4,7 / 5,48	4,7 / 5,68	4,65 / 5,73	4,5 / 5,70
Water outlet temperature; Heating min. / max.; °C	25 / 60	25 / 60	25 / 60	25 / 60
Water outlet temperature; Cooling min. / max.; °C	5 / 25	5 / 25	5 / 25	5 / 25
Water outlet temperature; DHW min. / max.; °C	40 / 60	40 / 60	40 / 60	40 / 60
Water pipe connections	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Outdoor unit				
Width / Height / Depth; mm	1129 / 1558 / 440	1129 / 1558 / 440	1129 / 1558 / 440	1129 / 1558 / 440
Net weight; kg	177	177	177	177
Sound pressure; dB(A)	57.6	59.8	61.5	63.5
Sound power	71	73	75	77
Power supply; V/ph/Hz	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Max. intensity; A	18	21	24	28
Recommended wiring section, supply; mm^2	5x6	5x6	5x6	5x6
Recommended fuse, supply; A	D25	D25	D25	D32
Water pipe connections; inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Enamelled/stainless steel DHW coil minimum area	5.0 / 3,5	5.0 / 3,5	5.0 / 3,5	5.0 / 3,5
Refrigerant; Type refrigerant	R-32	R-32	R-32	R-32
Refrigerant, Refrigerant charge; kg	5	5	5	5
Maximum pump pressure available	12	12	12	12
Working range				
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 46	-5 / 46	-5 / 46	-5 / 46
Outdoor ambient temperature for heating min. / max.; °C	-25 / 35	-25 / 35	-25 / 35	-25 / 35
Outdoor ambient temperature for DHW min. / max.; °C	-25 / 43	-25 / 43	-25 / 43	-25 / 43

Aquantia KHHP-BI

Solution with multi-hybrid system



KHHP-BI is the Kaysun hybrid solution, which takes advantage of the **immediacy and stability of an air-air system, in combination with the incomparable efficiency and thermal comfort of an air-water system**. With a single outdoor unit from the R-32 Multisystem range, it is possible to provide homes of any type with greater thermal comfort throughout the year.

With up to 3 air-to-air units, the KHHP-BI system can cool (or heat) any indoor environment even during the hottest summers of (up to 10.5 kW in cooling and 11,1 kW in heating). In the same way, the hydraulic wall kit **can send low or medium-temperature hot water to any terminal**.

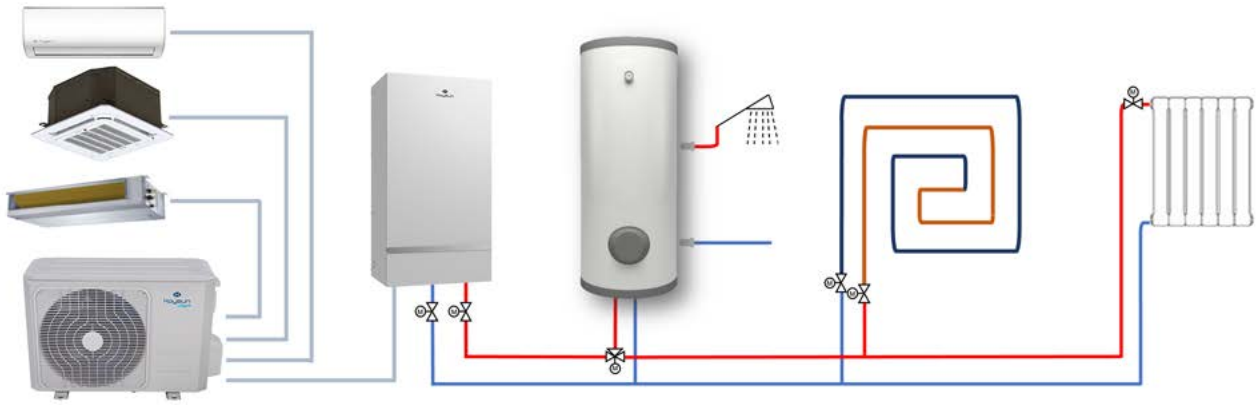
If domestic hot water is required, **KHHB-BI can also be combined with DHW tanks and accumulate water up to 55°C**. In relation to a conventional air-water system, the KHHP-BI installation can end up more affordable, as it is usually faster. Enjoy the versatility and precision of the most innovative solution from our range!

Customised

All you have to do is select the type of direct expansion indoor unit that best fits one's needs. Our presales service will help you make your choice.

Faster installation

Save money thanks to fast direct expansion installation, which, thanks to R32, achieves savings of up to 30% charge with respect to R410A, in addition to reducing GWP by 70%.



R-32 REFRIGERANT | DOMESTIC HOT WATER | DC INVERTER COMPRESSOR | GOLDEN FIN | Wi-Fi

Hydraulic kit wall-mounted Air-Water	KHHP-BI
Set	
Heating capacity / COP (A+7°C / W+35°C); kW	8,0 / 4,40
Heating capacity / COP (A+7°C / W+55°C); kW	8,0 / 2,40
Heating capacity / COP (A-7°C / W+35°C); kW	7,9 / 2,50
Heating capacity / COP (A-7°C / W+55°C); kW	7,0 / 1,60
Water outlet temperature; Heating min. / max.; °C	25 / 60
Water outlet temperature; DHW min. / max.; °C	35 / 55
Outdoor unit	
Refrigerant, Liquid pipe; inch	4x 1/4"
Refrigerant, Gas pipe; inch	3x 3/8" + 1x 1/2"
Indoor unit	
Width / Height / Depth; mm	490 / 918 / 325
Net weight; kg	56
Sound power	44
Sound pressure rated; dB(A)	32
Power supply	220-240 / 1 / 50
Working range	
Outdoor ambient temperature for heating min. / max.; °C	-20 / 24
Outdoor ambient temperature for DHW min. / max.; °C	-20 / 43

Possible combinations:

One unit	Two units	Three units		Four units		
7	7+KHHP-BI	7+7+KHHP-BI	9+12+KHHP-BI	7+7+7+KHHP-BI	7+9+12+KHHP-BI	9+12+12+KHHP-BI
9	9+KHHP-BI	7+9+KHHP-BI	9+18+KHHP-BI	7+7+9+KHHP-BI	7+9+18+KHHP-BI	9+12+18+KHHP-BI
12	12+KHHP-BI	7+12+KHHP-BI	12+12+KHHP-BI	7+7+12+KHHP-BI	9+9+9+KHHP-BI	12+12+12+KHHP-BI
18	18+KHHP-BI	7+18+KHHP-BI	12+18+KHHP-BI	7+7+18+KHHP-BI	9+9+12+KHHP-BI	12+12+18+KHHP-BI
KHHP-BI		9+9+KHHP-BI	18+18+KHHP-BI	7+9+9+KHHP-BI	9+9+18+KHHP-BI	

KHHP-BI unit is only compatible with the multi oudoor unit KAM4-105 DR7.

Maximum indoor unit combination: 3,5kW + 3,5kW + 5,2kW
For further information regarding the combinations and models compatible with the DX indoor units, see the technical specifications on the Kaysun.es web page.
All components must be ordered separately.

Compak

DHW Heat Pumps

Compak heat pumps for sustainable domestic hot water **are the ideal solution to environments where climate control needs are already covered**. Its degree of efficiency means it is considered a renewable energy system **and meets current regulations**.Its "Plug & Play" installation could not be easier, and the ability to channel suction/ discharge of air increases the range of possibilities regarding its application.

Choosing the Combo means taking care of the planet and reducing the emission of greenhouse gases, **a saving of up to 45% on bills*** and you can even avoid costs associated with the gas bill and dangers associated with the fuel/gas itself. **The equipment can operate with extreme outdoor temperatures without the need for electrical elements**, which will be used only if necessary to provide immediacy.

* With respect to an electric boiler of class B or lower.

Desinfection mode

The Compak has an anti-legionnaires disinfection mode, achieving up to 70°C. By default, it runs once per week. * With respect to an electric boiler of class B or lower.

Integration with renewable energies

The solar Compak versions can use energy from a solar thermal installation in order to achieve even greater levels of efficiency.

THERMAL SOLAR SUPPORT | SMART GRID READY | R-134A REFRIGERANT | DOMESTIC HOT WATER | Wi-Fi | ECO MODE | KEYMARK

			With solar coil	
Model	**KHP 15/190 ACS2**	**KHP 35/300 ACS1**	**KHPA2 16 190S**	**KHPA2 23 300S**
Heating capacity rated; kW	1,50	3,00	1.62	2,30
Capacity; l	180	280	168	272
Width / Height / Depth; mm	-- / 1787 / --	-- / 1920 / --	-- / 1830 / --	-- / 1930 / --
Diameter; mm	560	650	552	657
Water pipe connections inlet/outler; inch	3/4"	3/4"	3/4"	3/4"
Heat coil max. working pressure; MPa	1	1	1	1
Electrical heater; Standard support; kW	3	3	1.5	1.5
Air intake & outlet; Diameter; mm	160	190	160	190
Air intake & outlet; Useful static pressure; Pa	25	25	25	45
Air intake & outlet; Max. length; m	≤ 5	≤ 5	≤ 5	≤ 5
Air intake & outlet; Outdoor air flow; m^3/h	270	414	270	414
Sound pressure rated; dB(A)	41	45	36.6	38.2
Sound power level; dB(A)	58	56	51	53
Type refrigerant	R-134A	R-134A	R-134A	R-134A
Refrigerant charge; kg	1.0	1.5	1.0	1.5
Average climate in DHW. Keymark certification. Energy class	A+	A	A+	A+
Average climate in DHW. Keymark certification. SCOP,ACS / Load profile	2,791 / L	2,60 / XL	2,76 / L	3,01 / XL
Average climate in DHW. Keymark certification. Standby power	29	23,4	26,3	30.6
Average climate in DHW. Keymark certification. Heating time	7h 10min	6h 04min	7h 01min	7h 49min
Average climate in DHW. Keymark certification. Reference hot water temperature	53.4	53,6	53,8	53.1
Average climate in DHW. Keymark certification. Volume of hot water at 40°C	239	362	234	354
SCOPdhw (UN 16147:2017)	2.7	3.21	3.13	3.59
Maximum supply temperature / Anti-legionella function	+70 / +70	+65 / +70	+70 / +70	+65 / +70
Temperature DHW max. with support; °C	70	65	70	65
Compressor type	Rotary	Rotary	Rotary	Rotary
Tank material	Enamelled steel	Enamelled steel	Enamelled steel	Enamelled steel
Insulating material and thickness	Expanded polyurethane	Expanded polyurethane	Expanded polyurethane	Expanded polyurethane
Water pipe connections inlet/outlet solar; inch	-	-	3/4"	3/4"
Integration; Solar heat coil surface; m^2	-	-	1.1	1.3
Integration; Solar heat coil material	-	-	Enamelled steel	Enamelled steel
Integration; Max. working pressure; MPa	-	-	1	1
Heat coil material	Copper	Copper	Aluminium	Aluminium
Solar coil connection			3/4"	3/4"

Sound pressure: Sound pressure calculated at 1 m from the equipment.
The 300 liters model doesn't have the WiFi and the Smart Grid functionalities.

Tanks for Domestic Hot Water

DOMESTIC HOT WATER

Model	BSX270	BSX475
Indoor unit		
Width / Height / Depth; mm	-- / 1209 / --	-- / 1800 / --
Capacity; l	270	475
Net weight; kg	136	212
Diameter; mm	700	750
Cleaning cap; mm	280	280
Tank protection layer	Steel	Steel
Interior cover	Coat of enamel	Coat of enamel
Exterior cover	Galvanized steel with electrostatic coating with powdered paint	Galvanized steel with electrostatic coating with powdered paint
Casing colour	White	White
Plugs and exterior cap material	Black plastic	Black plastic
Insulating material and thickness	Injected polyurethane foam; 50 mm	Injected polyurethane foam; 50 mm
Input of sensors for automatic control of unit	3x (Ø13x100 mm)	3x (Ø13x100 mm)
Operating pressure; bar	10	10
Test pressure; bar	13	13
Temperature indicator	Analog thermometer	Analog thermometer
Anti-corrosive protection	Magnesium anode rod and tester	Magnesium anode rod and tester
Heat exchanger type	Heat coil	Heat coil
Heat coil input diameter; inch	1 1/4"	1 1/4"
Heat coil surface; m^2	2.5	3.1
Cold water inlet; inch	1"	1"
Heat water outlet; inch	1"	1"

For the BSX475 tank, the installation of a 3-4 kW element is recommended, which should be supplied by the installer in the event that it is required.

Other complements for Aquantia range

Temperature sensor

Temperature sensor for the Aquantia range, connectable to the main board to control DHW tanks, buffer tank temperature, 2 zones, boiler mixes, solar circuit...
The whole Aquantia range includes 1 probe by default. Necessary accessory in applications with more than 1 probe.

Model	T1B probe + cable
Cable length	10 m

Heating Element

Tank heating element for DHW in order to support the Heat Pump DHW production if needed.

Model	Electrical Power
RT3	3 kW

Multi-thermostat adapter

Multi-thermostat adapter for the Aquantia range. With this adapter, we can connect up to 8 different thermostats to control different zones.

2 zones kit

2 zones kit, pre-assembled set consisting of 2 circulator pumps, non-return and ball valves, temperature sensors... Perfect for easy installation in circuits with 2 zones (fancoils, radiators, underfloor heating...).

Model	KIRE2HX	KIRE2HLX
Zones	2 High temp.	1 High + 1 Low
Width x Height x Depth; mm	402 x 525 x 250	402 x 525 x 250
Max. flow rate (ΔP 10 kPa); L/h	2600	1600
Max. power to be dissipated (ΔT=20°C); kW	60.5	37.2

Water pumps for 1 or 2 zones

High efficiency circulator pump with EC motor. The Aquantia range can control these pumps for both 1 or 2 zones in heating and cooling applications.

Model	Pump 6 mca	Pump 7.5 mca
Max. available head; m.c.a.	6.0	7.5
Qmax; m3/h	3.6	4.4
Hydraulic connections; "	G 1"	G 1-1/2"
Power; W	30	58

R-S wall/ceiling model

Floor model AR-A

Buffer tanks/hydraulic needles

Reduce the number of compressor starts and stops before temperature variations and increase the inertia of the system.

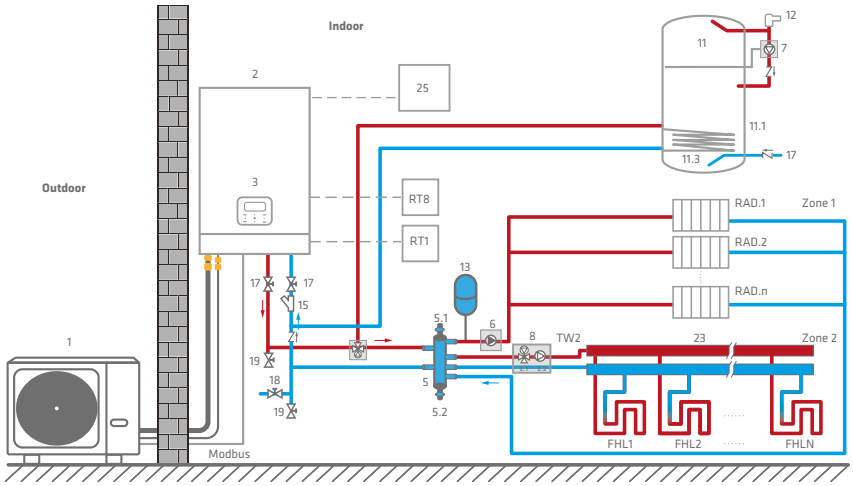
Model	20 AR-S	30 AR-S	40 AR-S	50 AR-A	100 AR-A
Volume; L	20	30	40	50	100
Diameter x Height; mm	Ø250 x 700	Ø250 x 1000	Ø250 x 1230	Ø410 x 560	Ø460 x 890
Weight empty; Kg	7	10	12	15	30
Connections; "	1"	1"	1"	1"	1-1/4"
Installation	Wall or ceiling support (need aditional support kit)				Floor

Accessories available: Ceiling/wall support mounting kit, Air purge valve

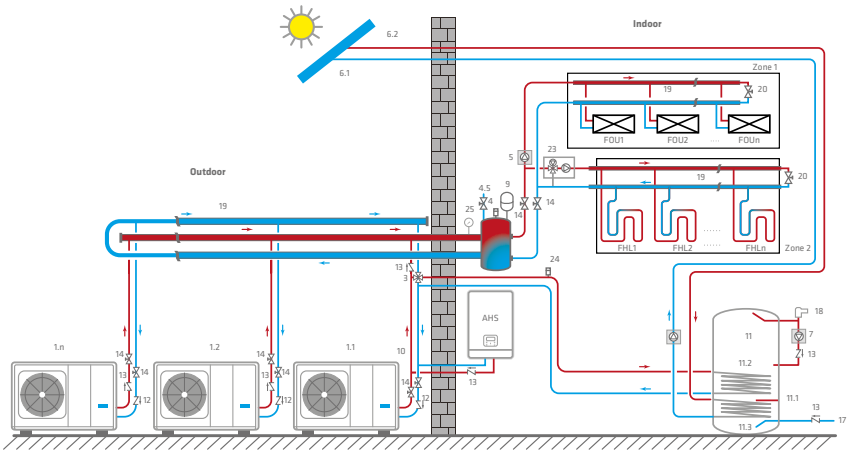
Expansion vessels

Model	HWB8LX	HWB12LX	HWB16LX
Volume; L	8	12	16
Diameter x Height; mm	Ø202 x 309	Ø230 x 364	Ø279 x 364
Packing weight; Kg	2.0	2.7	3.4
Connections; "	3/4" BSP F	3/4" BSP F	3/4" BSP F

Installation Diagrams

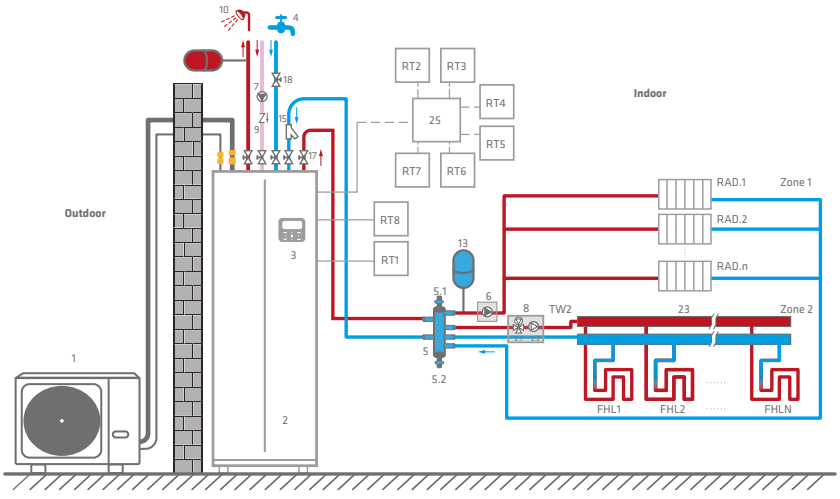


Code	Assembly unit
1	Outdoor Unit
2	Indoor Unit
3	User Interface
5	Balance tank (Field supply)
5.1	Automatic air purge valve
5.2	Drainage valve
6	P_o: zone 1 circulation pump (Field supply)
7	DHW recirculation pump (field supply)
8	Mixing station (Field supply)
8.1	sv3: Mixing vlave (Field Supply)
8.2	P_c: zone 2 circulation pump
11	DHW tank
11.3	Condenser
12	Consumption
13	Expansion vessel (Field supply)
15	Filter (Accessory)
17	Tap water inlet pipe (field supply)
18	Filling valve (field supply)
19	Drainage vlave (Field supply)
23	Collection/distributor (Field Supply)
25	Thermostat transfer board (optional)
RT 1...7	Low voltage room thermostat (Field Supply)
RT8	High voltage room thermostat (Field Supply)
TW2	Zone 2 water flow temperature sensor (optional)
FHL 1 ...n	Floor heating loop (field supply)
RAD.1...n	Radiator (Field supply)



Up to 6 units. It's not possible to mix KHPS-MO PRO and KHPS-MO HP PRO in the same cascade installation.

Code	Assembly unit
1.1	Master unit
1.2...n	Slave unit
3	SV1:3-way valve (Field supply)
4	Balance tank (Field supply)
4.1	Automatic bleed valve
4.2	Drainage valve
4.3	Tbt1: Balance tank upper temperature sensor (optional)
4.4	Tbt2: Balance tank lower temperature sensor (optional)
4.5	Filing valve
5	P_O: Outside circulation pump (Field supply)
6.1	Tsolar: Solar temperature sensor (Optional)
6.2	Solar Panel
7	P_D: DHW pipe pump (Field supply)
9	Espansion vessel (Field supply)
10	T1: Total water flow temperature sensor (Optional)
11	Domestic water tank (field supply)
11.1	TBH: Domestic water tank heater
11.2	Coin 1, heat exchanger for heat pump
11.3	Coin 2, heat exchanger for solar energy
12	Filter (Accessory)
13	Check value (Field supply)
14	Shut-off valve (Field supply)
17	Tap water inlet pipe (Field supply)
18	Hot water tap (Field supply)
19	Collector/distributor (Field supply)
20	Bypass valve (Field supply)
23	Mixing station (Field supply)
24	Automatic bleed valve (Field supply)
25	Water manometer (Field supply)
FHL1...n	Floor heating loop (Field supply)
ZONE1	The space operate cooling or heating mode
ZONE2	The space only operate heating mode
AHS	Auxiliary heat source (Field supply)



Code	Assembly unit
1	Outdoor Unit
2	Indoor Unit
3	User Interface
4	Tap water - inlet pipe (Field supply)
5	Balance tank (Field supply)
5.1	Automatic air purge valve
5.2	Drainage valve
6	P_o: zone 1 circulation pump (Field supply)
7	DHW pump - inlet pipe (Field supply)
8	Mixing station (Field supply)
8.1	sv3: Mixing vlave (Field Supply)
8.2	P_c: zone 2 circulation pump
9	Check valve (Field supply)
10	DHW production - outlet pipe (Field supply)
13	Expansion vessel (Field supply)
15	Filter (Accessory)
17	Shut-off valve (Field supply)
18	Safety valve (Field supply)
23	Collection/distributor (Field Supply)
25	Multi thermostat board (optional)
RT 1...7	Low voltage room thermostat (Field Supply)
RT8	High voltage room thermostat (Field Supply)
TW2	Zone 2 water flow temperature sensor (optional)
FHL 1 ...n	Floor heating loop (field supply)
RAD.1...n	Radiator (Field supply)

This installation diagrams are simplified versions, for more diagrams or further information please visit our web and check Aquatix Range manual or contact our presales department.

Swimming Pool HP KSWP

Swimming pool heat pump

NEW

Kaysun launches its new R32 KSWP heat pump, the ideal solution for heating swimming pools and extending their use throughout the year.
With its **Full Inverter** components, it guarantees high performance and energy savings.
The KSWP series has a Modbus connection, can be controlled through the APP and remotely through the IOT platform thanks to its built-in WiFi.

Its compatibility with SmartGrid networks, guaranteeing that the KSWP series uses the greatest possible amount of clean energy from the network and stores electrical energy in the pool.
Apart from multiple protection systems in terms of control and regulation, it has the Silence mode that allows the sound pressure to be lowered even up to 38 dB(A) at 1m.

Built-in WiFi

The equipment has a WiFi connection as standard, allowing remote control of the pool's heating.

SG-ready

Ensures that ESG-Inv M Series uses as much clean energy as possible and stores it in the swimming pool. When the smart grid is fully supplied with clean energy, ESG-Inv M Series consume close to zero carbon.

SMART GRID READY | R-32 REFRIGERANT | COOLING AND HEATING | COMPATIBLE WITH AIRZONE | Wi-Fi | MODBUS | CONFIGURATION VIA USB PORT

Model	KSWP-70 DR8	KSWP-90 DR8	KSWP-120 DR8	KSWP-160 DR8	KSWP-200 DR8
Set					
Outdoor unit	KSWP-70 DR8	KSWP-90 DR8	KSWP-120 DR8	KSWP-160 DR8	KSWP-200 DR8
Heating capacity / Boost Mode (A27/HR80%, W28°C); kW	7,16 (10,3)	9,15 (12,8)	12,5 (14,5)	16,00 (18,70)	18,80 (21,80)
Power absorbed / Boost mode (A27/HR80%, W28°C)	0,95 (1,56)	1,35 (2,13)	1,79 (2,28)	2,67 (3,67)	3,62 (4,95)
COP / Boost Mode (A27/HR80%, W28°C);	7,50 (6,60)	6,80 (6,00)	7,00 (6,35)	6,00 (5,10)	5,20 (4,40)
Heating capacity / Boost Mode (A15/HR70%, W28°C); kW	5,30 (7,30)	6,80 (9,30)	9,12 (10,5)	12,80 (15,00)	14,50 (17,00)
Power absorbed / Boost mode (A15/HR70%, W28°C)	1,04 (1,56)	1,39 (2,09)	1,81 (2,28)	2,84 (3,95)	3,45 (4,72)
COP / Boost Mode (A15/HR70%, W28°C);	5,10 (4,69)	4,90 (4,45)	5,05 (4,60)	4,50 (3,80)	4,20 (3,60)
Cooling capacity (A35, W28°C); kW	4,5	5,2	7	7,8	8,6
Power absorbed (A35, W28°C)	1,13	1,55	1,75	2,6	3,31
EER (A35, W28°C)	3,98	3,35	4	3	2,6
Water outlet temperature; Heating min. / max.; °C	10 / 42	10 / 42	10 / 42	10 / 42	10 / 42
Water outlet temperature; Cooling min. / max.; °C	10 / 30	10 / 30	10 / 30	10 / 30	10 / 30
Swimming pool volume	<35	<45	<60	<80	<100
Outdoor unit					
Width / Height / Depth; mm	988 / 712 / 426	988 / 712 / 426	988 / 712 / 426	988 / 712 / 426	988 / 712 / 426
Net weight; kg	46	46	50	53	53
Heating sound pressure / Silent mode (A27/RH80%, W28°C)	41 / 38	43 / 38	49 / 38	50 / 39	54 / 40
Chilling sound pressure / Silent mode (A35, W28°C)	43 / 39	45 / 40	48 / 40	51 / 42	52 / 43
Power supply; V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity; A	10,50	11,00	12,00	18,00	23,00
Water pipe connections; inch	DN50 PVC	DN50 PVC	DN50 PVC	DN50 PVC	DN50 PVC
Exchanger pressure drop	4,60	7,30	13,80	23,00	33,00
Refrigerant; Type refrigerant	R-32	R-32	R-32	R-32	R-32
Refrigerant, Refrigerant charge; kg	0,55	0,55	0,75	0,78	0,78
Hydraulic system					
Water flow rated; m^3/h	3,10	3,90	5,40	6,90	8,30
Working range					
Outdoor ambient temperature for cooling min. / max.; °C	15 / 43	15 / 43	15 / 43	15 / 43	15 / 43
Outdoor ambient temperature for heating min. / max.; °C	-7 / 43	-7 / 43	-7 / 43	-7 / 43	-7 / 43

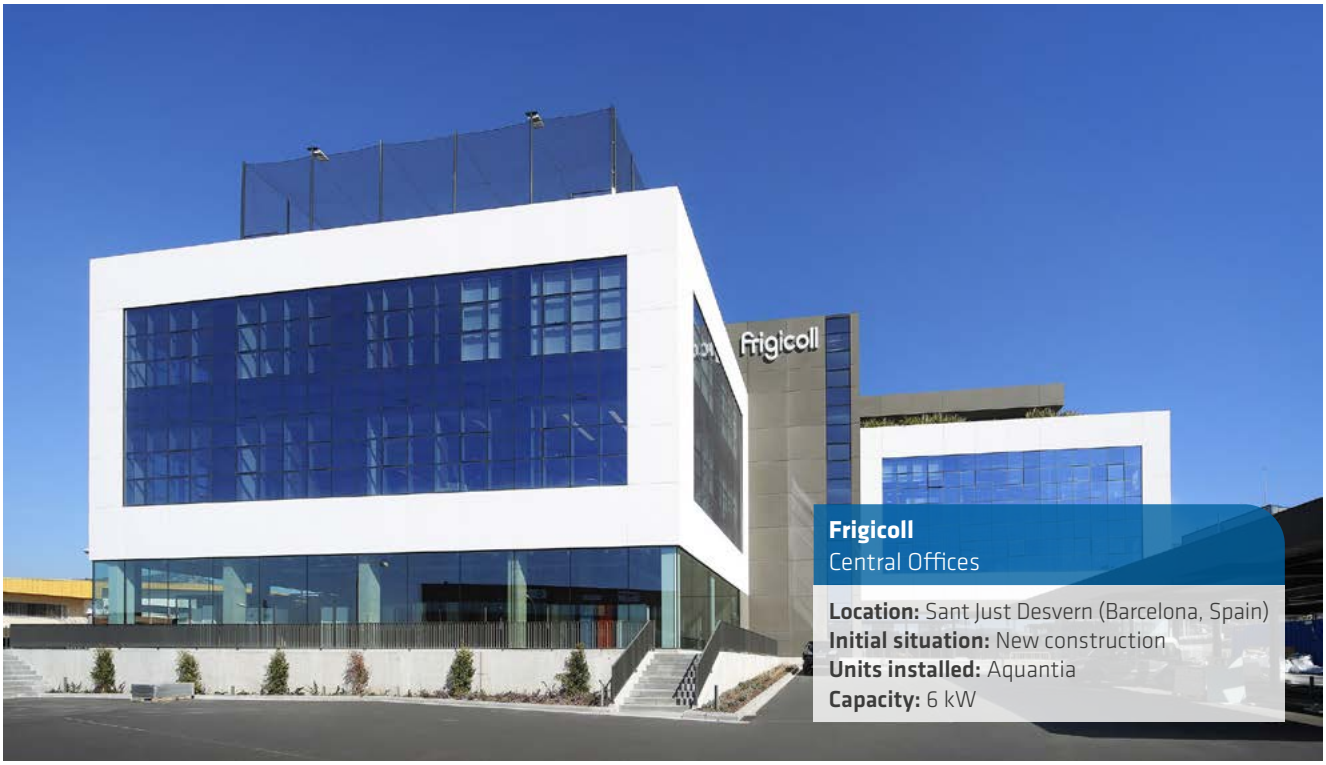
References

Key Installations

Aquatix is a more sustainable solution than the traditional hot water boiler, with better energy efficiency and a quicker and more simple installation process. Energy savings and efficiency set this range apart.

Institution St. Louis
School

Location: France
Initial situation: Renovation
Units installed: KHP 72 ACS + G1
Capacity: 6.5 kW



Frigicoll
Central Offices

Location: Sant Just Desvern (Barcelona, Spain)
Initial situation: New construction
Units installed: Aquantia
Capacity: 6 kW

Ruber Hospital
Public Building

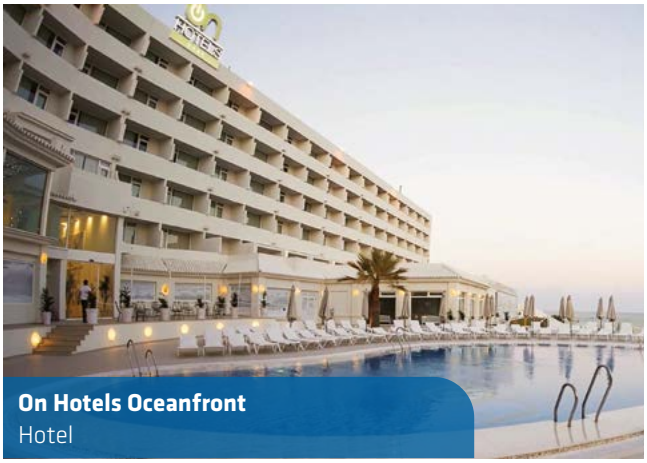
Location: Madrid (Spain)
Initial situation: Renovation
Units installed: AIR-WATER
Capacity: 130 kW

Iteve
Business Centre

Location: Badajoz (Extremadura, Spain)
Initial situation: Renovation
Units installed: Compak KHP
Capacity: 245 kW

Quirón Hospital
Public Building

Location: Torrevieja (Spain)
Initial situation: New construction
Units installed: AIR-WATER
Capacity: 65 kW



On Hotels Oceanfront
Hotel

Location: Matalascañas (Spain)
Initial situation: Renovation
Units installed: 2 KHP 420 ACS1
Capacity: 80 kW

Jardines de Lorca
Hotel

Location: Murcia (Spain)
Initial situation: New construction
Units installed: AIR-WATER
Capacity: 260 kW

Synergym
Gym

Location: GYM (Spain)
Initial situation: Renovation
Units installed: 5 KHP 35 300 ACS1
Capacity: 18 kW

Rafa Nadal International Centre
Public Building

Location: Balearic Islands (Spain)
Initial situation: New construction
Units installed: Aquatix Systems
Capacity: 7 kW

Zen

Commercial Range

Presentation of the range
Zen Commercial Range

Ducts

Ducted units provide the Kaysun Zen range with its most flexible solution. With a wide range of features as standard and highly versatile installation, they could be the answer to your needs. Vertical installation models available.

Capacity kW (Only Horizontal models) 3.5 5.2 7.1 9 10.5 12.5 14 16

Capacity kW (Horizontal / Vertical models) 3.5 7.1 10.5 16

R-32 REFRIGERANT · DRAINAGE PUMP · HERTZ · COMPATIBLE WITH AIRZONE · SMART HOME · ON/OFF CONTACT · AIR INTAKE · FRESH AIR SUPPLY

Cassette 600x600

600x600 cassette, with 360° air outlet. An elegant, compact solution with standard dimensions, in order to be integrated on any ceiling.

Capacity kW 3.5 5.2

R-32 REFRIGERANT · DRAINAGE PUMP · HERTZ · COMPATIBLE WITH AIRZONE · SMART HOME · FOLLOW ME · AIR OUTLET 360°

Superslim Cassette 840x840

840x840 cassette with reduced height, equipped with a 360° panel for better air diffusion.

Capacity kW 7.1 9 10.5 12.5 14 16

R-32 REFRIGERANT · HERTZ · COMPATIBLE WITH AIRZONE · SMART HOME · ON/OFF CONTACT · FOLLOW ME · FRESH AIR SUPPLY

Floor/Ceiling

Compact, state-of-the-art design which can be adapted to every room environment. A simple but, at the same time, extremely versatile unit.

Capacity kW 5.2 7.1 10.5 14 16

R-32 REFRIGERANT · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · HERTZ · COMPATIBLE WITH AIRZONE · SMART HOME · ON/OFF CONTACT · FOLLOW ME

Outdoor units

Axial

The axial outdoor units are machines designed to facilitate maintenance, their main components are protected and they need very little space for installation.

Capacity kW 3.5 5.2 7.1 9 10.5 12.5 14 16 24.2 28

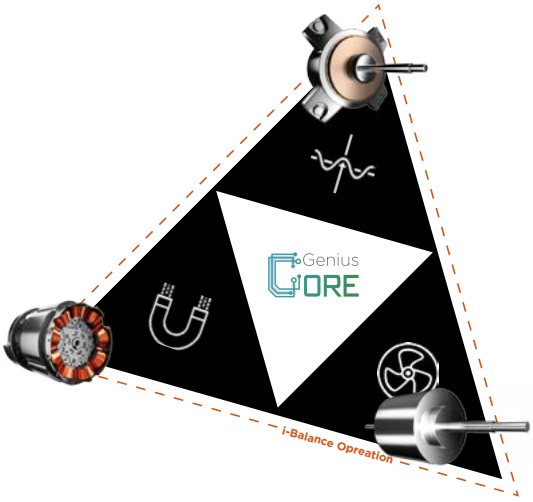
R-32 REFRIGERANT · DRAINAGE PUMP · HERTZ · COMPATIBLE WITH AIRZONE · SMART HOME · ON/OFF CONTACT · AIR INTAKE · FRESH AIR SUPPLY

Zen
Commercial Range

The Kaysun R-32 commercial range includes axial outdoor units, in addition to several types of indoor units. The Kaysun outdoor units are compact, robust machines that require little space for installation. They can be used with up to 75 metres of refrigerant piping and a height difference of 30 metres, in accordance with capacity.

Full DC Inverter

The exclusive Kaysun GENIUS CORE algorithm provides the system with complete stability. Using the Alpha chip, the compressor, PWM module and DC motors in the unit work in an optimum way, adapting to the real demand and preventing losses of energy.
The dynamic adjustment of the electrical power guarantees constant equilibrium for the system, meaning the Kaysun units maintain powerful, efficient, stable performance even when operating for long periods.



WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option. The units can be managed remotely and they even have a weekly programmer.

Twins

Within the range it is possible to install TWIN-type units, meaning the installation of two indoor units which provide greater distribution of air while improving climate control, in conjunction with a single outdoor unit.

Kaysun technology, leading technology

Bionic fan

Based on natural shapes and bionic principles, the design of the fan blades effectively reduces both noise and airflow resistance. In conjunction with optimised air ducting, it provides the same volume of airflow while consuming 30% less energy.

Other fans

V-PAM (Vector + I-PAM) Inverter Control

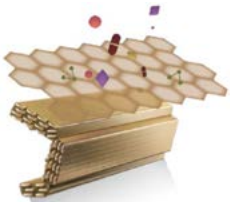
The V-PAM inverter control reduces the effects of magnetic flux and increases the maximum velocity and efficiency of the compressor through vector control technology.

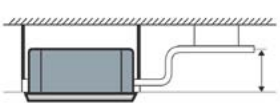
Twin-Rotary compressor

The Twin-Rotary compressor with 180° rotation system and symmetrical balance ensures low levels of vibration and noise thanks to the low torque.

Golden Fin treatment

The batteries in indoor and outdoor units have Golden Fin anti-corrosion treatment as standard. This treatment allows them to enjoy unprecedented duration.





Condensation pump included

All equipment, apart from the floor/ceiling units, have a condensation pump of up to 750 mm, and 1,000 mm in Superslim 840 x 840 cassette.

Units with R-32

R-32 has an atmospheric warming potential of 675, less than that for R-410A, is more economical and is between 2 and 9% more efficient with a lower charging volume.

Ducts

The Kaysun range for ducts is an excellent solution for places where it is necessary to distribute the air in a balanced way. They automatically adjust the static pressure and can be installed vertically to adapt to any area.

Centralised controller

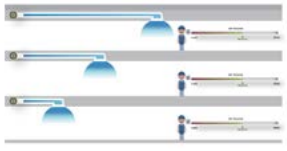
For overall integration and to monitor all the units, the first option is centralised control. The Kaysun range has a wide variety of centralised controllers and gateways for BMS integration.

Vertical installation option

The range of Vertical ducts can be installed both horizontally and vertically. The rest of the standard range must be installed only horizontally.

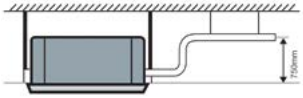
Fresh air intake on the side of the unit

The intake of outdoor unit can be achieved directly by the unit through a pre-stamped hole on the side of the unit's body, and thus cleaner, fresher air can be obtained.



Automatic adjustment of static pressure

The duct automatically modifies the static pressure required in order to provide maximum comfort and adapt the sound level.



Condensation pump

All units have a condensation pump with the capacity to raise the level of water to a height difference of 750 mm.

KCT-04.1 SPSWF
Standard

R-32 REFRIGERANT | DRAINAGE PUMP | 50/60 Hz HERTZ | COMPATIBLE WITH AIRZONE | SMART HOME | ON/OFF CONTACT | FRESH AIR SUPPLY

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPDA-35 DVR14	KPDA-52 DVR14	KPDA-71 DVR14
Set			
Outdoor unit	KUE-35 DVR13	KUE-52 DVR13	KUE-71 DVR13
Indoor unit	KPD-35 DR14	KPD-52 DR14	KPD-71 DR14
Cooling capacity rated; kW	3.52	5.28	7.03
Cooling capacity min. / max.; kW	0.53 / 3.99	2.55 / 5.86	3.28 / 8.16
Heating capacity rated; kW	3.81	5.57	7.62
Heating capacity min. / max.; kW	1 / 4.39	2.2 / 6.15	2.81 / 8.49
Heating capacity rated at -7°C; kW	2.39	3.81	4.78
Cooling input rated; W	1053	1530	2190
Cooling input min. / max.; W	155 / 1373	710 / 2150	750 / 2960
Heating input rated; W	1038	1510	1900
Heating input min. / max.; W	302 / 1390	740 / 1760	640 / 2580
EER	3.3	3.52	3.15
COP	3.66	3.75	4.1
COP at -7°C	2.6	2.6	2.6
SEER	6.1 - A++	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1	4x1
Outdoor unit			
Air flow,; m^3/h	2200	2100	3500
Sound pressure; dB(A)	53.6	56	60
Sound power level; dB(A)	62	65	69
Width / Height / Depth; mm	765 / 555 / 303	805 / 554 / 330	890 / 673 / 342
Net weight; kg	26.6	32.5	43.9
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Compressor type	Rotary	Rotary	Rotary
Indoor unit			
Air flow low / medium / high; m^3/h	350 / 500 / 660	420 / 670 / 870	610 / 930 / 1200
Sound pressure low / medium / high; dB(A)	29.8 / 33.5 / 36	26 / 29.8 / 35	25.5 / 29.1 / 32.8
Sound power level; dB(A)	56	59	62
Max. pressure available; Pa	60	100	160
Air inlet width/height; mm	537/152	706/136	926/175
Air outlet width/height; mm	599/186	782/190	1001/228
Width / Height / Depth; mm	700 / 200 / 506	880 / 210 / 674	1100 / 249 / 774
Net weight; kg	17.8	24.4	32.3
Power supply; V/ph/Hz	With communication	With communication	With communication
Power wiring; mm^2	With communication	With communication	With communication
Possibility of vertical installation	No	No	No
Refrigerant			
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	0.72	1.15	1.5
Supplementary charge; kg	0.012	0.012	0.024
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"
Piping height difference; m	25	30	50
Vertical piping max. length; m	10	20	25
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Ducts

R-32 REFRIGERANT | DRAINAGE PUMP | 50/60 Hz HERTZ | COMPATIBLE WITH AIRZONE | SMART HOME | ON/OFF CONTACT | FRESH AIR SUPPLY

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPDA-90 DVR14	KPDA-90(140) DVR14	KPDA-105 DVR14
Set			
Outdoor unit	KUE-90 DVR13	KUE-90 DVR13	KUE-105 DVR13
Indoor unit	KPD-90 DR14	KPD-140 DR14	KPD-105 DR14
Cooling capacity rated; kW	8.79	8.79	10.55
Cooling capacity min. / max.; kW	2.23 / 9.85	2.23 / 9.85	2.75 / 11.14
Heating capacity rated; kW	9.38	9.38	11.72
Heating capacity min. / max.; kW	2.7 / 10.02	2.7 / 10.02	2.78 / 12.78
Heating capacity rated at -7°C; kW	7.08	7.08	7.44
Cooling input rated; W	2500	2500	3950
Cooling input min. / max.; W	190 / 3050	190 / 3050	900 / 4150
Heating input rated; W	2250	2250	3250
Heating input min. / max.; W	430 / 2450	430 / 2450	800 / 3950
EER	3.5	3.5	2.6
COP	4.25	4.25	3.71
COP at -7°C	2.6	2.6	2.5
SEER	6.1 - A++	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1	4x1
Outdoor unit			
Air flow,; m^3/h	3800	3800	4000
Sound pressure; dB(A)	62	62	63
Sound power level; dB(A)	70	70	70
Width / Height / Depth; mm	946 / 810 / 410	946 / 810 / 410	946 / 810 / 410
Net weight; kg	52.8	52.8	66.9
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x4
Compressor type	Rotary	Rotary	Rotary
Indoor unit			
Air flow low / medium / high; m^3/h	1560 / 1780 / 2060	2120 / 2350 / 2600	1560 / 1780 / 2060
Sound pressure low / medium / high; dB(A)	34.3 / 36.7 / 39.2	35.4 / 38.3 / 41.8	35.4 / 37.7 / 40.3
Sound power level; dB(A)	65	70	62
Max. pressure available; Pa	160	160	160
Air inlet width/height; mm	1186/175	1044/227	1186/175
Air outlet width/height; mm	1261/228	1101/280	1261/228
Width / Height / Depth; mm	1360 / 249 / 774	1200 / 300 / 874	1360 / 249 / 774
Net weight; kg	40.5	47.6	40.5
Power supply; V/ph/Hz	With communication	With communication	With communication
Power wiring; mm^2	With communication	With communication	With communication
Possibility of vertical installation	No	No	No
Refrigerant			
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	2	2	2.4
Supplementary charge; kg	0.024	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Piping height difference; m	50	50	75
Vertical piping max. length; m	25	25	30
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

KCT-04.1 SPSWF
Standard

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPDA-105 DTR14	KPDA-105(140) DTR14	KPDA-125 DVR14
Set			
Outdoor unit	KUE-105 DTR13	KUE-140 DTR13	KUE-125 DVR13
Indoor unit	KPD-105 DR14	KPD-105 DR14	KPD-125 DR14
Cooling capacity rated; kW	10.55	10.55	12.02
Cooling capacity min. / max.; kW	2.73 / 11.78	2.75 / 11.14	2.93 / 12.31
Heating capacity rated; kW	11.72	11.72	13.48
Heating capacity min. / max.; kW	2.78 / 12.84	2.78 / 12.78	3.37 / 14.07
Heating capacity rated at -7°C; kW	7.88	7.88	8.41
Cooling input rated; W	4000	3950	4200
Cooling input min. / max.; W	890 / 4200	900 / 4150	680 / 4500
Heating input rated; W	3250	3250	3459
Heating input min. / max.; W	780 / 4000	800 / 3950	750 / 4100
EER	2.7	2.7	2.85
COP	3.71	3.71	3.9
COP at -7°C	2.6	2.6	2.8
SEER	6.1 - A++	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1	4x1
Outdoor unit			
Air flow,; m^3/h	4000	4000	4000
Sound pressure; dB(A)	63	63	63
Sound power level; dB(A)	70	70	72
Width / Height / Depth; mm	946 / 810 / 410	946 / 810 / 410	946 / 810 / 410
Net weight; kg	80.5	80.5	71
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	220-240/1/50
Power wiring; mm^2	(4+T)x2,5	(4+T)x2,5	(4+T)x2,5
Compressor type	Rotary	Rotary	Rotary
Indoor unit			
Air flow low / medium / high; m^3/h	1560 / 1780 / 2060	1560 / 1780 / 2060	2120 / 2350 / 2600
Sound pressure low / medium / high; dB(A)	35.4 / 37.7 / 40.3	35.4 / 37.7 / 40.3	35.4 / 38.3 / 41.8
Sound power level; dB(A)	63	63	71
Max. pressure available; Pa	160	160	160
Air inlet width/height; mm	1186/175	1186/175	1044/227
Air outlet width/height; mm	1261/228	1261/228	1101/280
Width / Height / Depth; mm	1360 / 249 / 774	1360 / 249 / 774	1200 / 300 / 874
Net weight; kg	40.5	40.5	47.6
Power supply; V/ph/Hz	With communication	With communication	With communication
Power wiring; mm^2	With communication	With communication	With communication
Possibility of vertical installation	No	No	No
Refrigerant			
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	2.4	2.4	2.8
Supplementary charge; kg	0.024	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Piping height difference; m	75	75	75
Vertical piping max. length; m	30	30	30
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Ducts

R-32 REFRIGERANT | DRAINAGE PUMP | 50/60 Hz HERTZ | COMPATIBLE WITH AIRZONE | SMART HOME | ON/OFF CONTACT | FRESH AIR SUPPLY

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPDA-140 DTR14	KPDA-160 DTR14
Set		
Outdoor unit	KUE-140 DTR13	KUE-160 DTR13
Indoor unit	KPD-140 DR14	KPD-160 DR14
Cooling capacity rated; kW	14.07	15.24
Cooling capacity min. / max.; kW	3.52 / 15.53	4.1 / 17.29
Heating capacity rated; kW	16.12	18.17
Heating capacity min. / max.; kW	4.1 / 18.17	4.4 / 20.52
Heating capacity rated at -7°C; kW	10.18	11.06
Cooling input rated; W	4800	5250
Cooling input min. / max.; W	880 / 6000	1030 / 6650
Heating input rated; W	4500	5150
Heating input min. / max.; W	950 / 5700	950 / 6600
EER	2.93	3.05
COP	3.52	3.55
COP at -7°C	2.65	2.75
SEER	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1
Outdoor unit		
Air flow,; m^3/h	7500	7500
Sound pressure; dB(A)	63.5	64
Sound power level; dB(A)	74	75
Width / Height / Depth; mm	952 / 1333 / 415	952 / 1333 / 415
Net weight; kg	103.7	107
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x2,5	(4+T)x2,5
Compressor type	Rotary	Rotary
Indoor unit		
Air flow low / medium / high; m^3/h	2120 / 2350 / 2600	2120 / 2350 / 2600
Sound pressure low / medium / high; dB(A)	35.4 / 38.3 / 41.8	36 / 38.9 / 42.3
Sound power level; dB(A)	68	71
Max. pressure available; Pa	160	160
Air inlet width/height; mm	1044/227	1044/227
Air outlet width/height; mm	1101/280	1101/280
Width / Height / Depth; mm	1200 / 300 / 874	1200 / 300 / 874
Net weight; kg	47.6	47.4
Power supply; V/ph/Hz	With communication	With communication
Power wiring; mm^2	With communication	With communication
Possibility of vertical installation	No	No
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	2.9	3
Supplementary charge; kg	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"
Piping height difference; m	75	75
Vertical piping max. length; m	30	30
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Vertical Ducts

KCT-04.1 SPSWF
Standard

Possibility of vertical installation

This range of ducts can be installed both horizontally and vertically (in this case by disconnecting the included condensate pump).

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

	KPDA-35 V DVR14	KPDA-71 V DVR14	KPDA-105 V DVR14	KPDA-105 V DTR14	KPDA-160 V DTR14
Set					
Outdoor unit	KUE-35 DVR13	KUE-71 DVR13	KUE-105 DVR13	KUE-105 DTR13	KUE-160 DTR13
Indoor unit	KPD-35 V DVR14	KPD-71V DR14	KPD-105V DR14	KPD-105 V DTR14	KPD-160V DR14
Cooling capacity rated; kW	3.52	7.03	10.55	10.55	15.24
Cooling capacity min. / max.; kW	0.53 / 3.99	3.28 / 8.16	2.75 / 11.14	2.73 / 11.78	4.1 / 17.29
Heating capacity rated; kW	3.81	7.62	11.72	11.72	18.17
Heating capacity min. / max.; kW	1 / 4.39	2.81 / 8.49	2.78 / 12.78	2.78 / 12.84	4.4 / 20.52
Heating capacity rated at -7°C; kW	2.39	4.78	7.44	7.88	11.06
Cooling input rated; W	1053	2190	3950	4000	5250
Cooling input min. / max.; W	155 / 1373	750 / 2960	900 / 4150	890 / 4200	1030 / 6650
Heating input rated; W	1038	1900	3250	3250	5150
Heating input min. / max.; W	302 / 1390	640 / 2580	800 / 3950	780 / 4000	950 / 6600
EER	3.3	3.15	2.6	2.7	3.05
COP	3.66	4.1	3.71	3.71	3.55
COP at -7°C	2.6	2.6	2.5	2.6	2.75
SEER	6.1 - A++	6.1 - A++	6.1 - A++	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+	4 - A+	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1	4x1	4x1	4x1
Outdoor unit					
Air flow,; m^3/h	2200	3500	4000	4000	7500
Sound pressure; dB(A)	53.6	60	63	63	64
Sound power level; dB(A)	62	69	70	70	75
Width / Height / Depth; mm	765 / 555 / 303	890 / 673 / 342	946 / 810 / 410	946 / 810 / 410	952 / 1333 / 415
Net weight; kg	26.6	43.9	66.9	80.5	107
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x2,5	(2+T)x2,5	(2+T)x4	(4+T)x2,5	(4+T)x2,5
Compressor type	Rotary	Rotary	Rotary	Rotary	Rotary
Indoor unit					
Air flow low / medium / high; m^3/h	350 / 500 / 660	610 / 930 / 1200	1560 / 1780 / 2060	1560 / 1780 / 2060	2120 / 2350 / 2600
Sound pressure low / medium / high; dB(A)	29.8 / 33.5 / 36	25.5 / 29.1 / 32.8	35.4 / 37.7 / 40.3	35.4 / 37.7 / 40.3	36 / 38.9 / 42.3
Sound power level; dB(A)	56	62	62	63	71
Max. pressure available; Pa	60	160	160	160	160
Air inlet width/height; mm	537/152	926/175	1186/175	1186/175	1044/227
Air outlet width/height; mm	599/186	1001/228	1261/228	1261/228	1101/280
Width / Height / Depth; mm	/ 200 / 506	1100 / 249 / 774	1360 / 249 / 774	1360 / 249 / 774	1200 / 300 / 874
Net weight; kg	17.8	32.3	40.5	40.5	47.4
Power supply; V/ph/Hz	With communication	With communication	With communication	With communication	With communication
Power wiring; mm^2	With communication	With communication	With communication	With communication	With communication
Possibility of vertical installation	Yes	Yes	Yes	Yes	Yes
Refrigerant					
Type refrigerant	R-32	R-32	R-32	R-32	R-32
Refrigerant charge; kg	0.72	1.5	2.4	2.4	3
Supplementary charge; kg	0.012	0.024	0.024	0.024	0.024
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Piping height difference; m	25	50	75	75	75
Vertical piping max. length; m	10	25	30	30	30
Working range					
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24	-15 / 24	-15 / 24

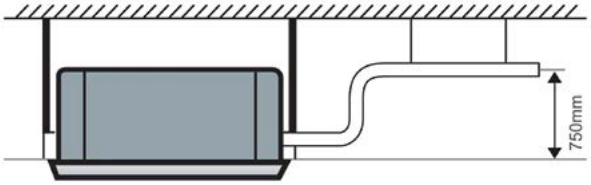
Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Cassette 600x600

The Kaysun 600x600 cassette fits perfectly within any ceiling thanks to its 600x600 dimensions. The panel provides 360° airflow in order to achieve uniform air distribution, thanks to its low-consumption DC Inverter fan.

Wired controller

This unit is compatible with wired controller, allowing the installation of the control in the most convenient place within the space to be climate conditioned.



Condensation pump

The Kaysun cassettes incorporate condensation pumps as standard, which allow the water to be raised to a difference in height of 750 mm.

360° airflow

The Kaysun cassettes are fitted with a 360° air diffusion system that allows them to reach every corner of the room and provide maximum comfort to users.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.

DC Inverter fan

The unit is equipped with low-consumption DC Inverter fans which provide more comfortable environments and attain high levels of energy efficiency.

KID-06 S
Standard

R-32 REFRIGERANT | DRAINAGE PUMP | 50/60 Hz HERTZ | COMPATIBLE WITH AIRZONE | SMART HOME | FOLLOW ME | 360° AIR OUTLET 360°

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KCIA-35 DVR14	KCIA-52 DVR14
Set		
Outdoor unit	KUE-35 DVR13	KUE-52 DVR13
Indoor unit	KCI-35 DR14	KCI-52 DR14
Cooling capacity rated; kW	3.52	5.28
Cooling capacity min. / max.; kW	0.85 / 4.11	2.9 / 5.59
Heating capacity rated; kW	3.81	5.57
Heating capacity min. / max.; kW	0.47 / 4.31	2.37 / 6.1
Heating capacity rated at -7°C; kW	2.4	3.72
Cooling input rated; W	1010	1633
Cooling input min. / max.; W	168 / 1434	720 / 2088
Heating input rated; W	1019	1540
Heating input min. / max.; W	124 / 1376	700 / 1930
EER	3.35	3.24
COP	3.74	3.48
COP at -7°C	2.75	2.6
SEER	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1
Outdoor unit		
Air flow,; m^3/h	2200	2100
Sound pressure; dB(A)	53.6	56
Sound power level; dB(A)	62	65
Width / Height / Depth; mm	765 / 555 / 303	805 / 554 / 330
Net weight; kg	26.6	32.5
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5
Compressor type	Rotary	Rotary
Indoor unit		
Air flow low / medium / high; m^3/h	389 / 485 / 569	479 / 584 / 680
Sound pressure low / medium / high; dB(A)	34.5 / 37.5 / 42	39 / 44 / 45.4
Sound power level; dB(A)	57	59
Width / Height / Depth; mm	570 / 260 / 570	570 / 260 / 570
Net weight; kg	16.3	16
Power supply; V/ph/Hz	With communication	With communication
Power wiring; mm^2	With communication	With communication
Panel; Width / Height / Depth; mm	647 / 50 / 647	647 / 50 / 647
Panel; Net weight; kg	2.5	2.5
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	0.72	1.15
Supplementary charge; kg	0.012	0.012
Liquid / Gas pipe diameter; inch	1/4" / 3/8"	1/4" / 1/2"
Piping height difference; m	25	30
Vertical piping max. length; m	10	20
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

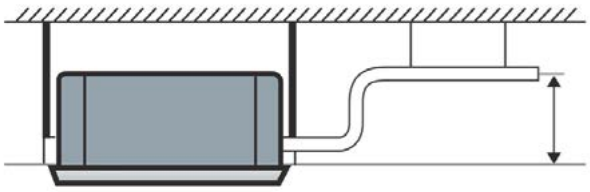
Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

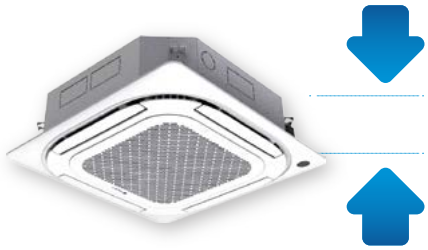
Superslim Cassette 840x840

The Kaysun low profile Cassette SuperSlim 840x840 units with 360° airflow achieve uniform, rapid climate control which reaches every corner of the room thanks to their DC Inverter fans.

Outdoor air intake

The possibility to supply fresh air directly into the unit to keep the indoor environment fresh and healthy.





New condensation pump

The Kaysun cassettes incorporate condensation pumps as standard, which allow the water to be raised to a difference in height of 1,000 m.

Low-profile design

They can be installed in very shallow false ceilings thanks to their reduced height.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.

DC Inverter fan

The unit is equipped with low-consumption DC Inverter fans which provide more comfortable environments and attain high levels of energy efficiency.

KID-06 S
Standard

R-32 REFRIGERANT | HERTZ | COMPATIBLE WITH AIRZONE | SMART HOME | ON/OFF CONTACT | FOLLOW ME | FRESH AIR SUPPLY

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KCISA-71 DVR14	KCISA-90 DVR14	KCISA-105 DVR14
Set			
Outdoor unit	KUE-71 DVR13	KUE-90 DVR13	KUE-105 DVR13
Indoor unit	KCIS-71 DR14	KCIS-90 DR14	KCIS-105 DR14
Cooling capacity rated; kW	7.03	8.79	10.55
Cooling capacity min. / max.; kW	3.3 / 7.91	2.23 / 9.38	2.7 / 11.43
Heating capacity rated; kW	7.62	9.389	11.14
Heating capacity min. / max.; kW	2.81 / 8.94	2.7 / 9.73	2.78 / 12.66
Heating capacity rated at -7°C; kW	3.31	6.55	7.08
Cooling input rated; W	2320	2750	4000
Cooling input min. / max.; W	780 / 2748	190 / 3000	890 / 4150
Heating input rated; W	1900	2450	3000
Heating input min. / max.; W	610 / 2700	430 / 2550	780 / 4000
EER	2.88	3.2	2.65
COP	4.1	4	3.68
COP at -7°C	2.65	2.55	2.65
SEER	6.1 - A++	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1	4x1
Outdoor unit			
Air flow,; m^3/h	3500	3800	4000
Sound pressure; dB(A)	60	62	63
Sound power level; dB(A)	69	70	70
Width / Height / Depth; mm	890 / 673 / 342	946 / 810 / 410	946 / 810 / 410
Net weight; kg	43.9	52.8	80.5
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(4+T)x2,5
Compressor type	Rotary	Rotary	Rotary
Indoor unit			
Air flow low / medium / high; m^3/h	992 / 1118 / 1247	1300 / 1530 / 1700	1300 / 1530 / 1700
Sound pressure low / medium / high; dB(A)	42 / 47.5 / 50	46 / 48 / 50.5	46 / 49 / 51
Sound power level; dB(A)	59	63	64
Width / Height / Depth; mm	830 / 205 / 830	830 / 245 / 830	830 / 245 / 830
Net weight; kg	21.6	24.6	27.2
Power supply; V/ph/Hz	With communication	With communication	With communication
Power wiring; mm^2	With communication	With communication	With communication
Panel; Width / Height / Depth; mm	950 / 55 / 950	950 / 55 / 950	950 / 55 / 950
Panel; Net weight; kg	6	6	6
Refrigerant			
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	1.9	2	2.4
Supplementary charge; kg	0.024	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Piping height difference; m	50	50	75
Vertical piping max. length; m	25	25	30
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Superslim Cassette 840x840

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KCISA-105 DTR14	KCISA-125 DVR14
Set		
Outdoor unit	KUE-105 DTR13	KUE-125 DVR13
Indoor unit	KCIS-105 DR14	KCIS-125 DR14
Cooling capacity rated; kW	10.55	12.02
Cooling capacity min. / max.; kW	2.7 / 11.43	2.93 / 12.31
Heating capacity rated; kW	11.14	13.48
Heating capacity min. / max.; kW	2.78 / 12.66	3.37 / 14.07
Heating capacity rated at -7°C; kW	7.52	8.41
Cooling input rated; W	4000	4200
Cooling input min. / max.; W	890 / 4150	680 / 4350
Heating input rated; W	3000	3700
Heating input min. / max.; W	780 / 4000	750 / 4250
EER	2.65	2.85
COP	3.68	3.6
COP at -7°C	2.6	2.65
SEER	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1
Outdoor unit		
Air flow,; m^3/h	4000	4000
Sound pressure; dB(A)	63	63
Sound power level; dB(A)	70	72
Width / Height / Depth; mm	946 / 810 / 410	946 / 810 / 410
Net weight; kg	66.9	71
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x4	(2+T)x4
Compressor type	Rotary	Rotary
Indoor unit		
Air flow low / medium / high; m^3/h	1300 / 1530 / 1700	1600 / 1750 / 1900
Sound pressure low / medium / high; dB(A)	46 / 49 / 51	47.5 / 50 / 52.5
Sound power level; dB(A)	64	66
Width / Height / Depth; mm	830 / 245 / 830	830 / 287 / 830
Net weight; kg	27.2	29.3
Power supply; V/ph/Hz	With communication	With communication
Power wiring; mm^2	With communication	With communication
Panel; Width / Height / Depth; mm	950 / 55 / 950	950 / 55 / 950
Panel; Net weight; kg	6	6
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	2.4	2.8
Supplementary charge; kg	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"
Piping height difference; m	75	75
Vertical piping max. length; m	30	30
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

KID-06 S
Standard

R-32 REFRIGERANT | HERTZ | COMPATIBLE WITH AIRZONE | SMART HOME | ON/OFF CONTACT | FOLLOW ME | FRESH AIR SUPPLY

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KCISA-140 DTR14	KCISA-160 DTR14
Set		
Outdoor unit	KUE-140 DTR13	KUE-160 DTR13
Indoor unit	KCIS-140 DR14	KCIS-160 DR14
Cooling capacity rated; kW	14.07	15.24
Cooling capacity min. / max.; kW	3.52 / 15.83	4.1 / 16.71
Heating capacity rated; kW	16.12	18.17
Heating capacity min. / max.; kW	4.1 / 17.29	4.4 / 19.93
Heating capacity rated at -7°C; kW	9.74	10.53
Cooling input rated; W	4650	5000
Cooling input min. / max.; W	800 / 5900	980 / 6200
Heating input rated; W	4580	5550
Heating input min. / max.; W	900 / 5500	1020 / 6700
EER	3.03	2.95
COP	3.5	3.22
COP at -7°C	2.68	2.59
SEER	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1
Outdoor unit		
Air flow,; m^3/h	7500	7500
Sound pressure; dB(A)	63.5	64
Sound power level; dB(A)	74	75
Width / Height / Depth; mm	952 / 1333 / 415	952 / 1333 / 415
Net weight; kg	103.7	107
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x2,5	(4+T)x2,5
Compressor type	Rotary	Rotary
Indoor unit		
Air flow low / medium / high; m^3/h	1600 / 1750 / 1900	1650 / 1850 / 2000
Sound pressure low / medium / high; dB(A)	48 / 50.5 / 52.5	49.5 / 52 / 54.5
Sound power level; dB(A)	66	66
Width / Height / Depth; mm	830 / 287 / 830	830 / 287 / 830
Net weight; kg	29.3	29.3
Power supply; V/ph/Hz	With communication	With communication
Power wiring; mm^2	With communication	With communication
Panel; Width / Height / Depth; mm	950 / 55 / 950	950 / 55 / 950
Panel; Net weight; kg	6	6
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	2.9	3
Supplementary charge; kg	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"
Piping height difference; m	75	75
Vertical piping max. length; m	30	30
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Floor/Ceiling

Floor/Ceiling units complete the extensive Kaysun Zen R-32 range. They can be installed in vertical or horizontal position. Thanks to the Inverter fan on the indoor unit, sound and consumption levels remain as low as possible.

Versatility

Thanks to the two installation options, in the ceiling or the floor, it is capable of easily adapting to any installation type.

Ease of maintenance

The units feature easy access to main components and parts, to facilitate maintenance, cleaning and repair.

WiFi

These units have the option of WiFi control via smartphone or tablet, making it easy and convenient to control the unit from anywhere.

DC Inverter fan

The unit is equipped with a DC Inverter fan, to improve comfort and reduce the unit's consumption.

KID-06 S
Standard

R-32 REFRIGERANT | DC INVERTER COMPRESSOR | DC INVERTER EXTERNAL FAN | HERTZ | COMPATIBLE WITH AIRZONE | SMART HOME | ON/OFF CONTACT | FOLLOW ME

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPCA-52 DVR14	KPCA-71 DVR14
Set		
Outdoor unit	KUE-52 DVR13	KUE-71 DVR13
Indoor unit	KPC-52 DR14	KPC-71 DR14
Cooling capacity rated; kW	5.28	7.03
Cooling capacity min. / max.; kW	2.71 / 5.86	3.22 / 7.77
Heating capacity rated; kW	5.57	7.62
Heating capacity min. / max.; kW	2.42 / 6.3	2.72 / 8.29
Heating capacity rated at -7°C; kW	3.54	4.87
Cooling input rated; W	1450	2300
Cooling input min. / max.; W	670 / 2027	747 / 2930
Heating input rated; W	1500	2050
Heating input min. / max.; W	540 / 1640	650 / 2850
EER	3.7	2.95
COP	3.75	4
COP at -7°C	2.88	2.72
SEER	6.1 - A+++	6.1 - A+++
SCOP	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1
Outdoor unit		
Air flow,; m^3/h	2100	3500
Sound pressure; dB(A)	56	60
Sound power level; dB(A)	65	69
Width / Height / Depth; mm	805 / 554 / 330	890 / 673 / 342
Net weight; kg	32.5	43.9
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x1,5	(4+T)x2,5
Compressor type	Rotary	Rotary
Indoor unit		
Air flow low / medium / high; m^3/h	723 / 839 / 958	853 / 1023 / 1192
Sound pressure low / medium / high; dB(A)	37 / 41 / 44	43 / 47 / 51
Sound power level; dB(A)	59	55
Width / Height / Depth; mm	1068 / 235 / 675	1068 / 235 / 675
Net weight; kg	28	28
Power supply; V/ph/Hz	With communication	With communication
Power wiring; mm^2	With communication	With communication
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	1.15	1.5
Supplementary charge; kg	0.012	0.024
Liquid / Gas pipe diameter; inch	1/4" / 1/2"	3/8" / 5/8"
Piping height difference; m	30	50
Vertical piping max. length; m	20	25
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Floor/Ceiling

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPCA-105 DTR14	KPCA-105 DVR14
Set		
Outdoor unit	KUE-105 DTR13	KUE-105 DVR13
Indoor unit	KPC-105 DR14	KPC-105 DR14
Cooling capacity rated; kW	10.55	10.55
Cooling capacity min. / max.; kW	2.73 / 11.78	2.73 / 11.43
Heating capacity rated; kW	11.72	11.72
Heating capacity min. / max.; kW	2.81 / 12.78	2.78 / 12.78
Heating capacity rated at -7°C; kW	7.61	7.61
Cooling input rated; W	4000	3900
Cooling input min. / max.; W	890 / 4300	900 / 4250
Heating input rated; W	3350	3350
Heating input min. / max.; W	780 / 3950	800 / 3950
EER	2.6	2.6
COP	3.6	3.6
COP at -7°C	2.5	2.5
SEER	6.1 - A+++	6.1 - A+++
SCOP	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1
Outdoor unit		
Air flow,; m^3/h	3800	4000
Sound pressure; dB(A)	62	63
Sound power level; dB(A)	70	70
Width / Height / Depth; mm	946 / 810 / 410	946 / 810 / 410
Net weight; kg	52.8	66.9
Power supply; V/ph/Hz	220-240/1/50	380-415/3/50
Power wiring; mm^2	(2+T)x4	(4+T)x2,5
Compressor type	Rotary	Rotary
Indoor unit		
Air flow low / medium / high; m^3/h	1504 / 1728 / 1955	1504 / 1728 / 2100
Sound pressure low / medium / high; dB(A)	45 / 47.5 / 51	45 / 48 / 51.5
Sound power level; dB(A)	65	65
Width / Height / Depth; mm	1650 / 235 / 675	1650 / 235 / 675
Net weight; kg	41.5	41.5
Power supply; V/ph/Hz	With communication	With communication
Power wiring; mm^2	With communication	With communication
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	2	2.4
Supplementary charge; kg	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"
Piping height difference; m	50	75
Vertical piping max. length; m	25	30
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

KID-06 S
Standard

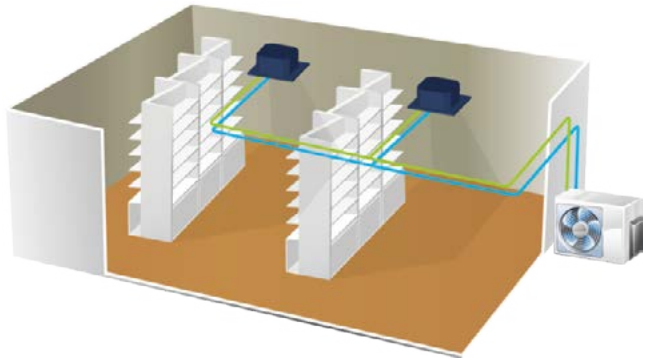
R-32 REFRIGERANT · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · HERTZ · COMPATIBLE WITH AIRZONE · SMART HOME · ON/OFF CONTACT · FOLLOW ME

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPCA-125 DVR14	KPCA-140 DTR14	KPCA-160 DTR14
Set			
Outdoor unit	KUE-125 DVR13	KUE-140 DTR13	KUE-160 DTR13
Indoor unit	KPC-140 DR14	KPC-140 DR14	KPC-160 DR14
Cooling capacity rated; kW	12.02	14.07	15.83
Cooling capacity min. / max.; kW	2.93 / 12.31	3.52 / 15.24	4.1 / 16.71
Heating capacity rated; kW	13.48	16.12	18.18
Heating capacity min. / max.; kW	3.37 / 14.07	4.1 / 17	4.4 / 19.64
Heating capacity rated at -7°C; kW	8.41	9.91	10.53
Cooling input rated; W	4200	5000	5650
Cooling input min. / max.; W	680 / 4350	900 / 5950	1100 / 6650
Heating input rated; W	3700	5100	6050
Heating input min. / max.; W	750 / 4250	1000 / 6050	1050 / 7100
EER	2.85	2.83	2.76
COP	3.6	3.07	3
COP at -7°C	2.65	2.65	2.6
SEER	6.1 - A+++	6.1 - A+++	6.1 - A+++
SCOP	4 - A+	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1	4x1
Outdoor unit			
Air flow,; m^3/h	4000	4000	4000
Sound pressure; dB(A)	63	63	63
Sound power level; dB(A)	70	70	72
Width / Height / Depth; mm	946 / 810 / 410	952 / 1333 / 415	952 / 1333 / 415
Net weight; kg	71	103.7	107
Power supply; V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(2+T)x4	(4+T)x2,5	(4+T)x4
Compressor type	Rotary	Rotary	Rotary
Indoor unit			
Air flow low / medium / high; m^3/h	1600 / 1850 / 2200	1600 / 1850 / 2200	1650 / 1950 /
Sound pressure low / medium / high; dB(A)	46 / 50 / 53	46 / 50 / 53	48 / 52 / 55
Sound power level; dB(A)	67	67	67
Width / Height / Depth; mm	1650 / 235 / 675	1650 / 235 / 675	1650 / 235 / 675
Net weight; kg	41.7	41.7	42.3
Power supply; V/ph/Hz	With communication	With communication	With communication
Power wiring; mm^2	With communication	With communication	With communication
Refrigerant			
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	2.8	2.4	2.8
Supplementary charge; kg	0.024	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Piping height difference; m	75	75	75
Vertical piping max. length; m	30	30	30
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24

Twins

The balance within the Zen range leads to good service and greater comfort for users and installers. The Zen Inverter units are equipped with a dedicated electronic board that allows the connection of two units to the same outdoor unit. TWIN technology can be applied to ducts, cassette Superslim and floor/ceiling units.



Saving space, climate control in every corner

Twin units represent the versatility and balance of the Zen range. They are presented as an option for commercial spaces that require more than one indoor unit to achieve adequate air-conditioning without the need to install additional outdoor units.

Control and setting simplicity

When a Twin system is working, the control can only operate the main unit. The two indoor units work as the same status, mode, temperature, fan velocity, etc. When the main unit is stopped, the slave unit also stops.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.

DC Inverter fan

The unit is equipped with low-consumption DC Inverter fans which provide more comfortable environments and attain high levels of energy.

Compatible units

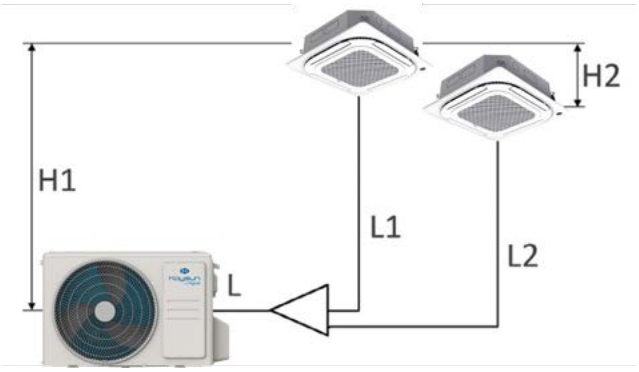
INDOOR UNITS		OUTDOOR UNITS
Typology	**Model**	**Model**
Ducts	KPD-35 (V) DR14*	KUE-71 DVR13
Ducts	KPD-52 DR14	KUE-105 DTR13 KUE-105 DVR13
Floor/Ceiling	KPC-52 DR14	
Ducts	KPD-71 (V) DR14*	KUE-140 DTR13
Cassette	KCIS-71 DR14	
Floor/Ceiling	KPC-71 DR14	
Ducts	KPD-90 DR14	KUE-160 DTR13
Cassette	KCIS-90 DR14	

*In these models it is possible to combine horizontal and vertical units. If you require the vertical, request the reference with the V.

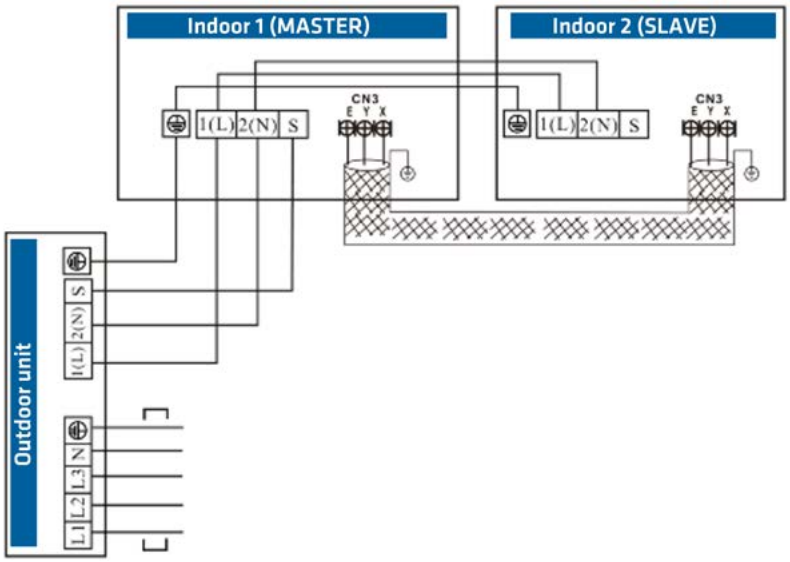



Permitted distances

Total length (m)	**2x 12K**	50	L+L1+L2
	2x 18K	50	
	2x 24K	65	
	2x 30K	65	
Max. length (m)		15	L1, L2
Max. difference (m)		10	L1, L2
Max. difference indoor/outdoor (m)		20	H1
Max. difference indoor/indoor (m)		0.5	H2



Wiring diagram



Power supply diagram for three-phase outdoor unit

Ducts

Axial Twins Current Loop

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPDA-35 DVR14 TWIN	KPDA-52 DVR14 TWIN	KPDA-52 DTR14 TWIN
Set			
Outdoor unit	KUE-52 DVR13	KUE-105 DVR13	KUE-105 DTR13
Indoor unit	2x KPD-35 (V) DR14*	2x KPD-52 DR14	2x KPD-52 DR14
Cooling capacity rated; kW	2x 3,52	2x 5,28	2x 5,28
Cooling capacity min. / max.; kW	0.53 / 3.99	2.55 / 5.86	2.55 / 5.86
Heating capacity rated; kW	2x 3,81	2x 5,57	2x 5,57
Heating capacity min. / max.; kW	1 / 4.39	2.2 / 6.15	2.2 / 6.15
Cooling input rated; W	2190	3950	3950
Cooling input min. / max.; W	750 / 2960	900 / 4150	900 / 4150
Heating input rated; W	1900	3250	3250
Heating input min. / max.; W	640 / 2580	800 / 3950	800 / 3950
SEER	6.1 - A++	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1	4x1
Outdoor unit			
Air flow,; m^3/h	3500	4000	4000
Sound pressure; dB(A)	60	63	63
Sound power level; dB(A)	69	70	70
Width / Height / Depth; mm	890 / 673 / 342	946 / 810 / 410	946 / 810 / 410
Net weight; kg	43.9	66.9	80.5
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x4	(4+T)x2,5
Compressor type	Rotary	Rotary	Rotary
Indoor unit			
Air flow low / medium / high; m^3/h	350 / 500 / 660	420 / 670 / 870	420 / 670 / 870
Sound pressure low / medium / high; dB(A)	29.8 / 33.5 / 36	26 / 29.8 / 35	26 / 29.8 / 35
Sound power level; dB(A)	56	59	59
Max. pressure available; Pa	60	100	100
Air inlet width/height; mm	537/152	706/136	706/136
Air outlet width/height; mm	599/186	782/190	782/190
Width / Height / Depth; mm	700 / 200 / 506	880 / 210 / 674	880 / 210 / 674
Net weight; kg	17.8	24.4	24.4
Power supply; V/ph/Hz	With communication	With communication	With communication
Power wiring; mm^2	With communication	With communication	With communication
Possibility of vertical installation	No	No	No
Refrigerant			
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	1.5	2.4	2.4
Supplementary charge; kg	0.024	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.
*In these models it is possible to combine horizontal and vertical units. If you require the vertical, request the reference with the V.

KCT-04.1 SPSWF
Standard

KCMI 112
Branch pipe

R-32 REFRIGERANT | DRAINAGE PUMP | 50/60 Hz HERTZ | COMPATIBLE WITH AIRZONE | SMART HOME | ON/OFF CONTACT | AIR INTAKE | FRESH AIR SUPPLY

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPDA-71 DTR14 TWIN	KPDA-90 DTR14 TWIN
Set		
Outdoor unit	KUE-140 DTR13	KUE-160 DTR13
Indoor unit	2x KPD-71 (V) DR14*	2x KPD-90 DR14
Cooling capacity rated; kW	2x 7,03	2x 8,79
Cooling capacity min. / max.; kW	3.28 / 8.16	2.23 / 9.85
Heating capacity rated; kW	2x 7,62	2x 9,38
Heating capacity min. / max.; kW	2.81 / 8.49	2.7 / 10.02
Cooling input rated; W	4800	5250
Cooling input min. / max.; W	880 / 6000	1030 / 6650
Heating input rated; W	4500	5150
Heating input min. / max.; W	950 / 5700	950 / 6600
SEER	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1
Outdoor unit		
Air flow,; m^3/h	7500	7500
Sound pressure; dB(A)	63.5	64
Sound power level; dB(A)	74	75
Width / Height / Depth; mm	952 / 1333 / 415	952 / 1333 / 415
Net weight; kg	103.7	107
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x2,5	(4+T)x2,5
Compressor type	Rotary	Rotary
Indoor unit		
Air flow low / medium / high; m^3/h	610 / 930 / 1200	1560 / 1780 / 2060
Sound pressure low / medium / high; dB(A)	25.5 / 29.1 / 32.8	34.3 / 36.7 / 39.2
Sound power level; dB(A)	62	65
Max. pressure available; Pa	160	160
Air inlet width/height; mm	926/175	1186/175
Air outlet width/height; mm	1001/228	1261/228
Width / Height / Depth; mm	1100 / 249 / 774	1260 / 249 / 774
Net weight; kg	32.3	40.5
Power supply; V/ph/Hz	With communication	With communication
Power wiring; mm^2	With communication	With communication
Possibility of vertical installation	Yes	Yes
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	2.4	3
Supplementary charge; kg	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.
*In these models it is possible to combine horizontal and vertical units. If you require the vertical, request the reference with the V.

Superslim cassette 840x840

Axial Twins Current Loop

KID-06 S
Standard

KCMI 112
Branch pipe

R-32 REFRIGERANT | HERTZ | SMART HOME | ON/OFF CONTACT | FOLLOW ME | FRESH AIR SUPPLY

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KCISA-71 DTR14 TWIN	KCISA-90 DTR14 TWIN
Set		
Outdoor unit	KUE-140 DTR13	KUE-160 DTR13
Indoor unit	2x KCIS-71 DR14	2x KCIS-90 DR14
Cooling capacity rated; kW	2x 7,03	2x 8,79
Cooling capacity min. / max.; kW	3.3 / 7.91	2.23 / 9.38
Heating capacity rated; kW	2x 7,62	2x 9,38
Heating capacity min. / max.; kW	2.81 / 8.94	2.7 / 9.73
Cooling input rated; W	4650	5000
Cooling input min. / max.; W	800 / 5900	980 / 6200
Heating input rated; W	4580	5550
Heating input min. / max.; W	900 / 5500	1020 / 6700
SEER	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1
Outdoor unit		
Air flow,; m^3/h	7500	7500
Sound pressure; dB(A)	63.5	64
Sound power level; dB(A)	74	75
Width / Height / Depth; mm	952 / 1333 / 415	952 / 1333 / 415
Net weight; kg	103.7	107
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x2,5	(4+T)x2,5
Compressor type	Rotary	Rotary
Indoor unit		
Air flow low / medium / high; m^3/h	1600 / 1750 / 1900	1650 / 1850 / 2000
Sound pressure low / medium / high; dB(A)	48 / 50.5 / 52.5	49.5 / 52 / 54.5
Sound power level; dB(A)	66	66
Width / Height / Depth; mm	830 / 287 / 830	830 / 287 / 830
Net weight; kg	29.3	29.3
Power supply; V/ph/Hz	With communication	With communication
Power wiring; mm^2	With communication	With communication
Possibility of vertical installation		
Panel; Width / Height / Depth; mm	950 / 55 / 950	950 / 55 / 950
Panel; Net weight; kg	6	6
Refrigerant		
Type refrigerant	R-32	R-32
Refrigerant charge; kg	2.4	3
Supplementary charge; kg	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Floor/Ceiling

Axial Twins Current Loop

KID-06 S
Standard

KCMI 112
Branch pipe

R-32 REFRIGERANT · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · HERTZ · SMART HOME · ON/OFF CONTACT · FOLLOW ME

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 126

Set model	KPCA-52 DVR14 TWIN	KPCA-52 DTR14 TWIN	KPCA-71 DTR14 TWIN
Set			
Outdoor unit	KUE-105 DVR13	KUE-105 DTR13	KUE-140 DTR13
Indoor unit	2x KPC-52 DR14	2x KPC-52 DR14	2x KPC-71 DR14
Cooling capacity rated; kW	2x 5,28	2x 5,28	2x 7,03
Cooling capacity min. / max.; kW	2.71 / 5.86	2.71 / 5.86	3.22 / 7.77
Heating capacity rated; kW	2x 5,57	2x 5,57	2x 7,62
Heating capacity min. / max.; kW	2.42 / 6.3	2.42 / 6.3	2.72 / 8.29
Cooling input rated; W	1450	1450	2300
Cooling input min. / max.; W	670 / 2027	670 / 2027	747 / 2930
Heating input rated; W	1500	1500	2050
Heating input min. / max.; W	540 / 1640	540 / 1640	650 / 2850
SEER	6.1 - A++	6.1 - A++	6.1 - A++
SCOP	4 - A+	4 - A+	4 - A+
Shielded communication wiring; mm^2	4x1	4x1	4x1
Outdoor unit			
Air flow,; m^3/h	3800	4000	7500
Sound pressure; dB(A)	62	63	63.5
Sound power level; dB(A)	70	70	74
Width / Height / Depth; mm	946 / 810 / 410	946 / 810 / 410	952 / 1333 / 415
Net weight; kg	52.8	66.9	103.7
Power supply; V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(2+T)x4	(4+T)x2,5	(4+T)x2,5
Compressor type	Rotary	Rotary	Rotary
Indoor unit			
Air flow low / medium / high; m^3/h	723 / 839 / 958	723 / 839 / 958	853 / 1023 / 1192
Sound pressure low / medium / high; dB(A)	37 / 41 / 44	37 / 41 / 44	43 / 47 / 51
Sound power level; dB(A)	59	59	55
Width / Height / Depth; mm	1068 / 235 / 675	1068 / 235 / 675	1068 / 235 / 675
Net weight; kg	28	28	28
Power supply; V/ph/Hz	With communication	With communication	With communication
Power wiring; mm^2	With communication	With communication	With communication
Refrigerant			
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	2.4	2.4	2.4
Supplementary charge; kg	0.024	0.024	0.024
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Working range			
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 50	-15 / 50	-15 / 50
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Data for standard conditions. The actual operation conditions depend on the place in which the equipment has been installed and the use made of it.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Supplementary charge: The initial factory charge of the machines is valid for the first 5 m (liquid line). For greater distances, a supplementary charge is required, in accordance with the formula 0.012 kg/m × (L-5) in the liquid line is 1/4". For greater diameters, use 0.024 kg/m × (L-5).
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Compatible controls and accessories

- ✔ Included as standard
- ● Recommended
- ○ Optional
- ⊗ Not supported

For more information see Controllers section.

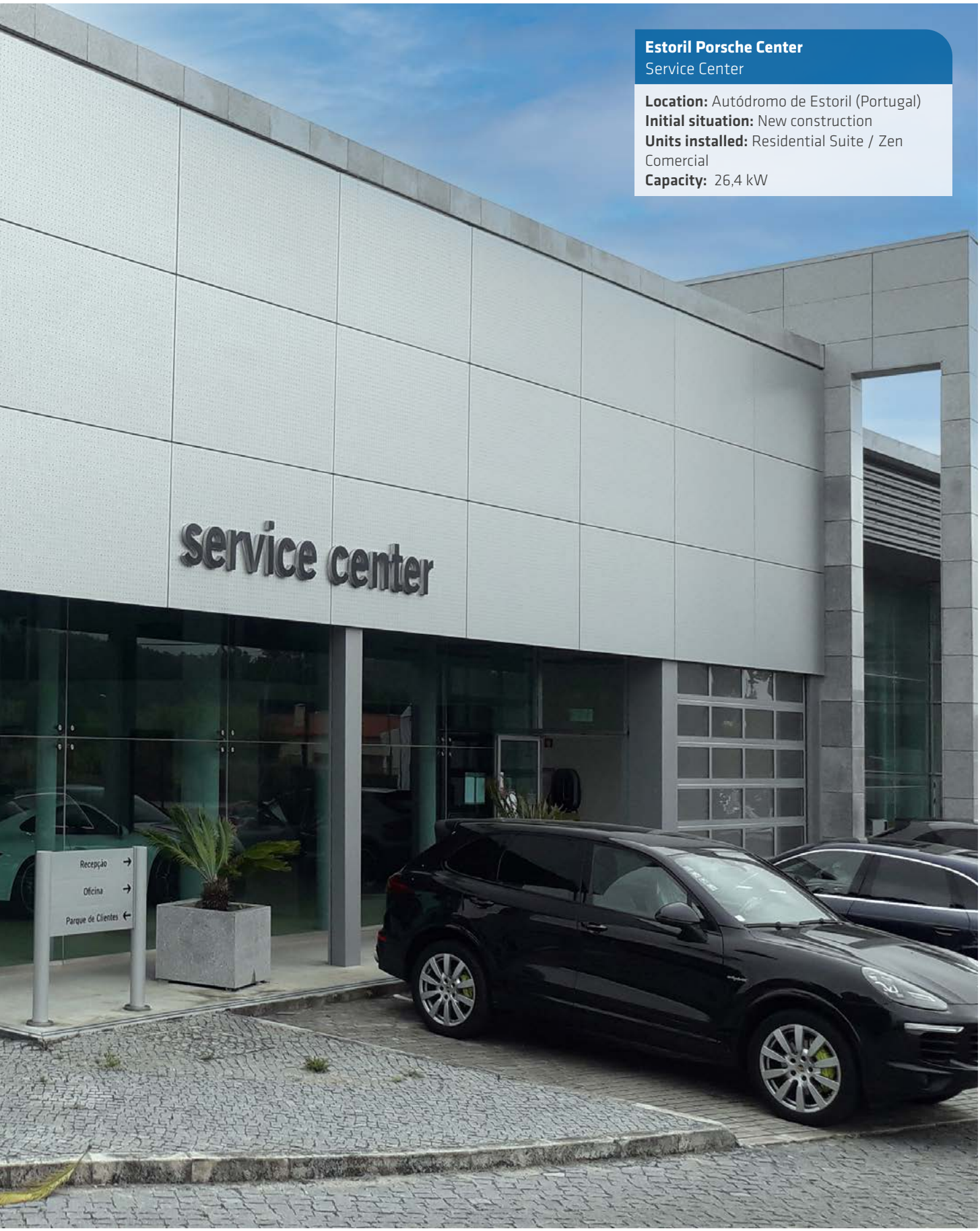
		Ducts
Wireless controller		 ○ KID-06 S
Wired controller		 ✔ KCT-04 SPSWF
WiFi	KCT-04 SPSWF 	 ✔ KCT-04 SPSWF
	K01-WIFI 	○
BMS[1]	Modbus 	○ K02-MODBUS ○ K01 MODBUS
	Bacnet 	○ K01-BACNET ○ K01-BACNET
	KNX 	○ K01-KNX 1
	Lonworks 	○ K01-LON
Centralised control[1]	Touch Centralised Control 	○ KCCT-64 I(B-A) ○ KCCT-64 IPS (A) ○ KCCT-384B IPS (B)
	Web Centralised Control 	○ KCC-64 WEB

(1) All SUITE/ZEN indoor units incorporate V4+ protocol

		
Cassette 600x600	**SuperSlim Cassette 840x840**	**Floor/Ceiling**
 ✓ KID-06 S	 ✓ KID-06 S	 ✓ KID-06 S
 ○ KC-03.2 SPS	 ○ KCT-04.1 SPS	 ○ KCT-04.1 SPS
 ○ KCT-04 SPSWF	○ K04 WIFI LCAC	 ○ KCT-04 SPSWF
○	○	○
○ K02-MODBUS ○ K01 MODBUS	○ K02-MODBUS ○ K01 MODBUS	○ K02-MODBUS ○ K01 MODBUS
○ K01-BACNET ○ K01-BACNET	○ K01-BACNET ○ K01-BACNET	○ K01-BACNET ○ K01-BACNET
○ K01-KNX 1	○ K01-KNX 1	○ K01-KNX 1
○ K01-LON	○ K01-LON	○ K01-LON
○ KCCT-64 I(B-A) ○ KCCT-64 IPS (A) ○ KCCT-384B IPS (B)	○ KCCT-64 I(B-A) ○ KCCT-64 IPS (A) ○ KCCT-384B IPS (B)	○ KCCT-64 I(B-A) ○ KCCT-64 IPS (A) ○ KCCT-384B IPS (B)
○ KCC-64 WEB	○ KCC-64 WEB	○ KCC-64 WEB

References

Key Installations



Estoril Porsche Center
Service Center

Location: Autódromo de Estoril (Portugal)
Initial situation: New construction
Units installed: Residential Suite / Zen Comercial
Capacity: 26,4 kW

Zen

High Capacity Commercial Range

Presentation of the range

Zen High Capacity Commercial Range

Outdoor units with ZEN technology

High Capacity Front Air Discharge

The units with high-capacity ducting have been designed to provide maximum performance with large airflows.

Power kW 22.4 28

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · COMPATIBLE WITH AIRZONE

Outdoor units with AMAZON (VRF) technology

High Pressure Front Air Discharge

The high-capacity ducting units are designed to provide enhanced airflows and achieve high static air pressure.

Power kW 20 25 28 40 45

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE

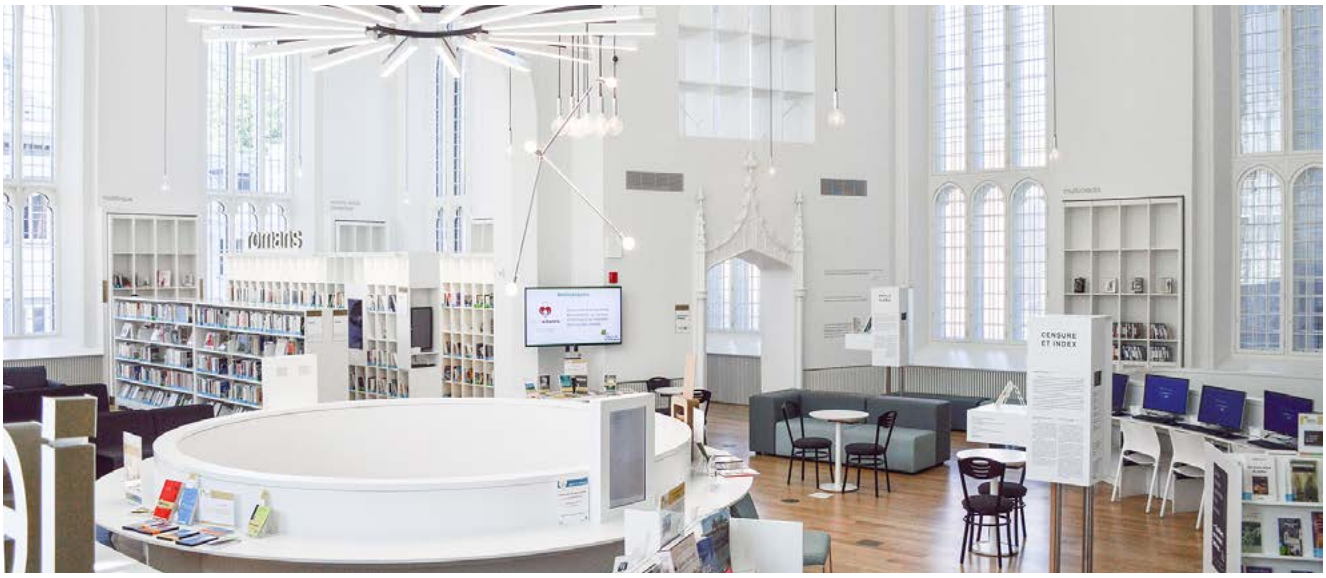
High Pressure Vertical Air Discharge

One of the main advantages on the top air discharge outdoors is the option for indoor installation, thanks to the 60 Pa static pressure fans. It is worth noting that the true length of piping can reach up to 175 m.

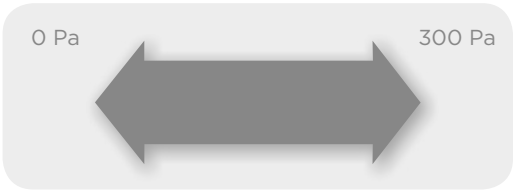
Power kW 28 40 45 56

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE

Zen
High Capacity Commercial Range



The Kaysun range of high-capacity ducted systems is ideal for the climate control of large areas, as it provides high cooling power and available pressures of up to 300 Pa, in conjunction with high air flows. Thanks to the wide variety of outdoor units, it can also be adapted to any type of installation in an ideal manner.



Outdoor unit typology

Up to three different types of outdoor unit for high-capacity ducting can be found, and thus perfect adaptation to installations of any nature is possible.

High static pressure

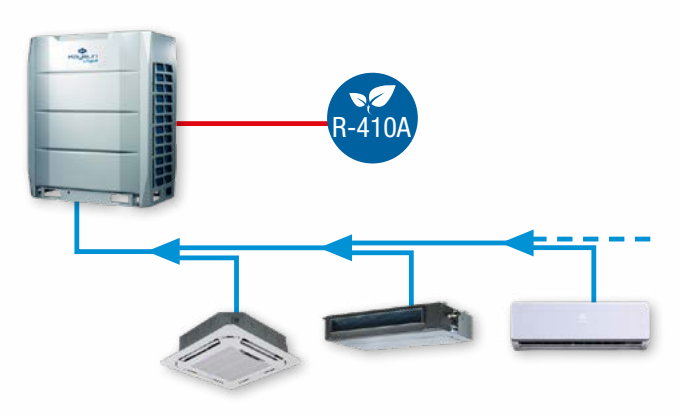
The Kaysun high-pressure ducting systems have a higher static pressure of up to 200 Pa to cover long ducting runs, which provide greater installation flexibility and precise climate control, even in rooms with high ceilings.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option. The units can be managed remotely and they even have a weekly programmer.

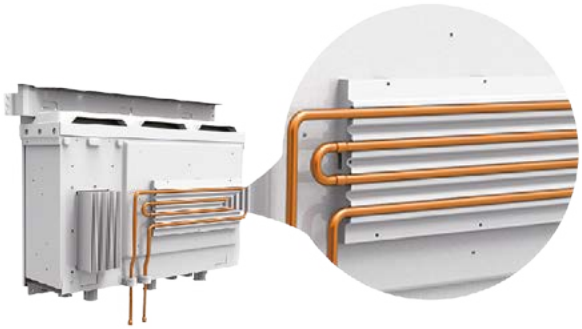
Replace technology

As the existing piping is reused, the installation time is reduced and limiting the impact and any negative effects for the environment.



Refrigerant automatic charging system

Through the automatic charging system, all that is necessary is for the refrigerant pump to be connected to the outdoor unit and it will automatically select the gas charge necessary for optimum performance



Energy efficiency

The indoor units use DC fans that constantly adapt operation and consumption to the needs of the installation, seeking maximum energy efficiency at all times.

High reliability

The Kaysun s6 outdoor series features control board cooling with a multi-tube refrigerant system to guarantee a stable temperature for the control board and IPM.

Outdoor air intake

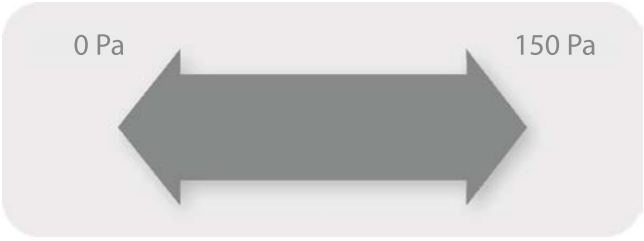
The possibility to supply outdoor air directly to the unit (up to 15% of the rated flow), in order to keep the indoor environment fresh and healthy.

All DC Inverter

The DC Inverter compressors regulate the capacity of the unit at all times and allow energy saving, while providing greater comfort for the user. The DC fans, which feature low consumption and high efficiency, adapt their velocity with precision whenever the unit is running.

High Capacity Front Air Discharge

Outdoor units with front discharge require little space for installation and maintenance. They are fitted with Twin DC Rotary Inverter Compressors in order to achieve high performance. The compatible duct units enjoy high airflow and available pressure of up to 150 Pa.



High available pressure

The static pressure in some models with ducting reaches 150 Pa in order to provide sufficient pressure and thus obtain the ideal airflow for all outlet panels.

WiFi

These units have the option of WiFi control via smartphone or tablet, making it easy and convenient to control the unit from anywhere.

High-efficiency compressors

The compressors used in these outdoor units are Twin Rotary Inverter models. These compressors feature high efficiency, minimum vibration and high stability.

Low-power DC fans

The external units use DC fans that constantly adapt operation and consumption to the needs of the unit, seeking maximum energy efficiency at all times.

KCT-02.1 SR
Recommended

R-410A REFRIGERANT | DC INVERTER COMPRESSOR | DC INVERTER EXTERNAL FAN | COMPATIBLE WITH AIRZONE

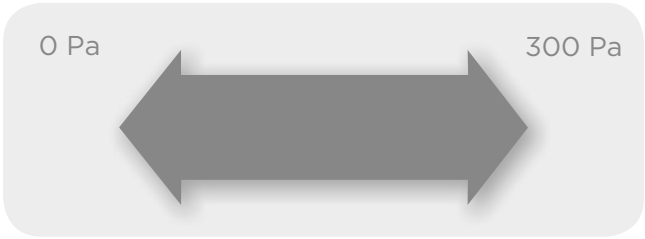
FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 142

Set model	KPDH-224F DN10	KPDH-280F DN10
Set		
Outdoor unit	KUE 224 DN10	KUE 280 DN10
Indoor unit	KPDH 224 DN10	KPDH 280 DN10
Cooling capacity rated; kW	22.4	28
Cooling input rated; kW	7.2	9
Heating capacity rated; kW	24.5	31.5
Heating capacity rated at -7°C; kW	17.5	22.05
Heating input rated; kW	6.6	8.5
Shielded communication wiring; mm^2	3x0,75	3x0,75
SEER	4.78	4.77
COP at -7°C	3.41	3.41
SCOP	3.48	3.48
Outdoor unit		
Compressor type	Rotary	Rotary
Air flow; m^3/h	9400	9800
Sound pressure; dB(A)	58	59
Width / Height / Depth; mm	1120 / 1558 / 528	1120 / 1558 / 528
Net weight; kg	147	148
Power supply; V/ph/Hz	380/3/50	380/3/50
Power wiring; mm^2	5x6	5x6
Indoor unit		
Air flow low / medium / high; m^3/h	3000 / / 4800	3000 / / 4800
Sound pressure low / medium / high; dB(A)	49 / / 52	49 / / 52
Max. pressure available; Pa	150	150
Width / Height / Depth; mm	1470 / 512 / 775	1470 / 512 / 775
Net weight; kg	83	83
Power supply; V/ph/Hz	220/1/50	220/1/50
Power wiring; mm^2	3x2,5	3x2,5
Refrigerant		
Type refrigerant	R-410A	R-410A
Refrigerant charge; kg	7.2	7.2
Liquid / Gas pipe diameter; inch	3/8" / 1"	3/8" / 1"
Piping height difference; m	50	50
Vertical piping max. length; m	30	30
Working range		
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 48	-15 / 48
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Refrigerant charge: This is the amount of refrigerant that has been charged in the unit. In order to apply a supplementary charge, it is necessary to use the formula from the technical manual.
Liquid/gas pipe diameter. Piping height difference/Vertical piping max. length: For lengths greater than 45 m, the diameter must be discussed with the technical department.
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

High Pressure Front Air Discharge

Outdoor units with front discharge require little space for installation and maintenance. They are fitted with Twin DC Rotary Inverter Compressors in order to achieve high performance. Regarding indoors, they enjoy high air flow and available pressure of up to 300 Pa.



High available pressure

The Kaysun high-pressure piping systems feature a high static pressure of up to 300 Pa to cover long ducting runs, which provides greater installation flexibility and precise climate control, even in rooms with high ceilings.

Low space requirements for installation

These units, as they feature front air discharge, do not need much space for unit installation and maintenance.

High-efficiency compressors

The compressors used in these outdoor units are Twin Rotary Inverter models. These compressors feature high efficiency, minimum vibration and high stability.

Low-power DC fans

The external units use DC fans that constantly adapt operation and consumption to the needs of the unit, seeking maximum energy efficiency at all times.

KCT-03 SR
Recommended

R-410A REFRIGERANT | DC INVERTER COMPRESSOR | DC INVERTER EXTERNAL FAN | DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 142

Set model	KPDHF-200F DN2	KPDHF-250F DN2	KPDHF-280F DN2	KPDHF-400F DN3	KPDHF-450F DN3
Set					
Outdoor unit	KMF-200 DN4	KMF-260 DN4	KMF-280 DN4	KMF-400 DN3	KMF-450 DN3
Indoor unit	KPDHF-200 DN4.0	KPDHF-250 DN4.0	KPDHF-280 DN4.0	KPDHF-400 DN4.0	KPDHF-450 DN4.0
Cooling capacity rated; kW	20	26	28.5	40	45
Cooling capacity min. / max.; kW	10 / 21.1	13 / 27.5	13 / 27.5	20 / 42.3	22.5 / 47.6
Cooling input rated; W	4.9	6.83	9.63	19.42	19.65
Heating capacity rated; kW	22.5	28.5	31.5	45	50
Heating capacity min. / max.; kW	11 / 26.1	14.3 / 33.70	14.3 / 33.70	22.5 / 53.3	25 / 59.2
Heating capacity rated at -7°C; kW	21.57	27.32	30.2	33	43.1
Heating input rated; W	6.59	6.67	7.43	14.96	15.3
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
SEER	7.11	6.55	6.35	5.6	5.10
COP at -7°C	2.63	2.89	2.8	1.94	2.24
SCOP	3.95	4.53	4.60	3.7	3.6
Outdoor unit					
Compressor type	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter (2)	Rotary Inverter (2)
Air flow; m^3/h	9000	10000	11000	16575	16575
Sound pressure; dB(A)	58	59	60	62	62
Width / Height / Depth; mm	1120 / 1558 / 528	1120 / 1558 / 528	1120 / 1558 / 528	1360 / 1650 / 540	1460 / 1650 / 540
Net weight; kg	143	143	143	250	280
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x6	(4+T)x6	(4+T)x6	(4+T)x16	(4+T)x16
Indoor unit					
Air flow; m^3/h	3745 / / 3941 / 4043 / 4144 / 4237 / 4358	3745 / / 3941 / 4043 / 4144 / 4237 / 4358	3745 / / 3941 / 4043 / 4144 / 4237 / 4358	4400 / / 5100 / 5450 / 5800 / 6150 / 6500	4400 / / 5100 / 5450 / 5800 / 6150 / 6500
Sound pressure; dB(A)	50 / 52 / 53 / 54 / 55 / 56 / 57	50 / 52 / 53 / 54 / 55 / 56 / 57	50 / 52 / 53 / 54 / 55 / 56 / 57	49 / 51 / 53 / 54 / 55 / 56 / 57	49 / 51 / 53 / 54 / 55 / 56 / 57
Max. pressure available; Pa	250	250	250	300	300
Width / Height / Depth; mm	1440 / 505 / 925	1440 / 505 / 925	1440 / 505 / 925	2010 / 680 / 905	2010 / 680 / 905
Net weight; kg	130	130	130	210	210
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x4	(2+T)x4	(2+T)x4	(2+T)x4	(2+T)x4
Refrigerant					
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant charge; kg	6.5	6.5	6.5	9	12
Liquid / Gas pipe diameter; inch	3/8" / 3/4"	3/8" / 7/8"	3/8" / 7/8"	1/2" / 1"	1/2" / 1"
Piping height difference; m	50	50	50	120	120
Vertical piping max. length; m	25	25	25	30	30
Working range					
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 48	-5 / 48	-5 / 48	-15 / 46	-15 / 46
Outdoor ambient temperature for heating min. / max.; °C	-20 / 24	-20 / 24	-20 / 24	-15 / 24	-15 / 24

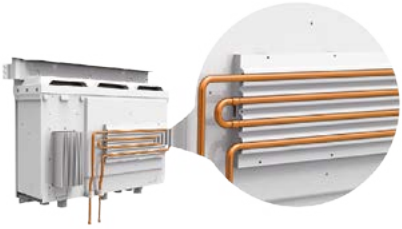
Cooling and heating capacity. Cooling and heating input. Energy efficiency: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Refrigerant charge: This is the amount of refrigerant that has been charged in the unit. In order to apply a supplementary charge, it is necessary to use the formula from the technical manual.
Liquid/gas pipe diameter. Piping height difference/Vertical piping max. length: For lengths greater than 45 m, the diameter must be discussed with the technical department.
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

High Pressure Vertical Air Discharge

The new generation of Kaysun Full DC Inverter outdoor units. These units bring together the most efficient and advanced technologies available for air conditioning equipment in order to provide customers with a climate control system with great cooling capacity, high reliability and increased efficiency. Thanks to the fans in the outdoor unit, which provide up to 60 Pa of available pressure, indoor installation is easier to carry out.

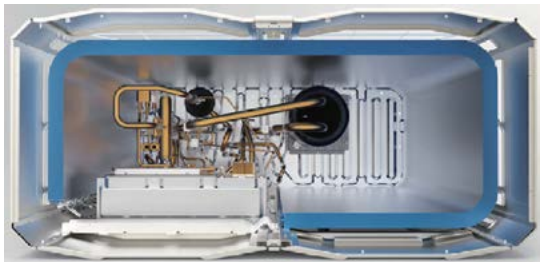
High reliability

The outdoor units in these systems feature control board cooling with a multi-pipe refrigerant system to guarantee a stable temperature for the control board and IPM. The units also have a function which automatically detects the refrigerant level.



High efficient EVI compressor

Thanks to the Scroll DC Inverter compressor with vapour injection (EVI), the heating efficiency is increased by 26% in ambient temperatures of -15°C, and 10% in cooling in temperatures of 43°C.



High efficiency

The outdoor units in the range feature a highly efficient heat exchanger with up to 3 passes, with an increase in indoor tube diameter of 8 mm for better thermal exchange.

KCT-03 SR
Recommended

R-410A REFRIGERANT | DC INVERTER COMPRESSOR | DC INVERTER EXTERNAL FAN | DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE

FOR COMPATIBLE CONTROLS AND ACCESSORIES SEE PAGE 142

Set model	KPDHF-280V DN4 S	KPDHF-400V DN4 S	KPDHF-450V DN4 S	KPDHF-560V DN4 S
Set				
Outdoor unit	K2UF-280 DN4 S	K2UF-400 DN4 S	K2UF-450 DN4 S	K2UF-560 DN4 S
Indoor unit	KPDHF-280 DN4.0	KPDHF-400 DN4.0	KPDHF-450 DN4.0	KPDHF-560 DN4.0
Cooling capacity rated; kW	28	40	45	56
Cooling capacity min. / max.; kW	14.1 / 30.2	20.2 / 43.1	22.7 / 48.5	28.3 / 60.4
Cooling input rated; kW	10.68	15.37	20.96	34.22
Heating capacity rated; kW	30.2	45	50	63
Heating capacity min. / max.; kW	14.04 / 36.34	20.06 / 51.92	22.57 / 58.41	28.02 / 72.69
Heating capacity rated at -7°C; kW	25.9	43	48	60
Heating input rated; kW	8.83	13.63	16.58	19.21
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75
SEER	6.44	6.31	5.58	5.38
COP at -7°C	2.33	2.52	2.30	2.5
SCOP	4.10	3.81	4.06	4.31
Outdoor unit				
Compressor type	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter
Air flow; m^3/h	11000	13000	13000	17000
Static pressure; Pa	60	60	60	60
Sound pressure; dB(A)	58	62	65	66
Width / Height / Depth; mm	990 / 1635 / 790	1340 / 1635 / 850	1340 / 1635 / 850	1340 / 1635 / 825
Net weight; kg	227	277	277	348
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x6	(4+T)x10	(4+T)x10	(4+T)x16
Indoor unit				
Air flow; m^3/h	3745 / / 3941 / 4043 / 4144 / 4237 / 4358	4400 / / 5100 / 5450 / 5800 / 6150 / 6500	4400 / / 5100 / 5450 / 5800 / 6150 / 6500	5000 / / 5800 / 6200 / 6600 / 7000 / 7400
Sound pressure; dB(A)	50 / 52 / 53 / 54 / 55 / 56 / 57	49 / 51 / 53 / 54 / 55 / 56 / 57	49 / 51 / 53 / 54 / 55 / 56 / 57	51 / 53 / 55 / 56 / 57 / 58 / 59
Max. pressure available; Pa	250	300	300	300
Width / Height / Depth; mm	1440 / 505 / 925	2010 / 680 / 905	2010 / 680 / 905	2010 / 680 / 905
Net weight; kg	130	210	210	218
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x4	(2+T)x4	(2+T)x4	(2+T)x4
Refrigerant				
Type refrigerant	R-410A	R-410A	R-410A	R-410A
Refrigerant charge; kg	11	13	13	17
Liquid / Gas pipe diameter; inch	1/2" / 1"	1/2" / 1 1/8"	1/2" / 1 1/8"	5/8" / 1 1/8"
Piping height difference; m	175	175	175	175
Vertical piping max. length; m	90	90	90	90
Working range				
Outdoor ambient temperature for cooling min. / max.; °C	-15 / 48	-15 / 48	-15 / 48	-15 / 48
Outdoor ambient temperature for heating min. / max.; °C	-20 / 27	-20 / 27	-20 / 27	-20 / 27

Cooling and heating capacity. Cooling and heating input. Energy efficiency: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Refrigerant charge: This is the amount of refrigerant that has been charged in the unit. In order to apply a supplementary charge, it is necessary to use the formula from the technical manual.
Liquid/gas pipe diameter. Piping height difference/Vertical piping max. length: For lengths greater than 45 m, the diameter must be discussed with the technical department.
Compatible controllers: The units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.
NOTE: Before installing these units, current legislation regarding refrigerant gases must be consulted.

Compatible controls and accessories

- ✔ Included as standard
- ● Recommended
- ○ Optional
- ⊗ Not supported

For more information see Controllers section.

High Capacity Front Air Discharge

Wireless controller			○ KI-04 S
Wired controller			● KCT-02.1 SR
			○ KC-02.1 H
WiFi	K01-WIFI		○
BMS	Modbus		○ K02-MODBUS ○ K01-MODBUS 1
	Bacnet		○ K01-BACNET ○ K05 BACNET 1
	KNX		○ K01-KNX 1
	Lonworks		○ K01-LON
Centralised control	Touch Centralised Control		○ KCCT-64 I(B-A) ○ KCCT-64 IPS (A) ○ KCCT-384B IPS (B)
	Web Centralised Control		○ KCC-64 WEB

High Pressure Front Air Discharge

○ KI-04 S

● KCT-03 SR

○ KCT-03 SRPS (A)

○ KCT-02.1 SR

○

○ K02-MODBUS
○ K01-MODBUS 1

○ K01-BACNET
○ K05 BACNET 1

○ K01-KNX 1

○ K01-LON

○ KCCT-64 I(B-A)
○ KCCT-64 IPS (A)
○ KCCT-384B IPS (B)

○ KCC-64 WEB

High Pressure Top Air Discharge

○ KI-04 S

● KCT-03 SR

○ KCT-03 SRPS (A)

○ KCT-02.1 SR

○

○ K02-MODBUS
○ K01-MODBUS 1

○ K01-BACNET
○ K05 BACNET 1

○ K01-KNX 1

○ K01-LON

○ KCCT-64 I(B-A)
○ KCCT-64 IPS (A)
○ KCCT-384B IPS (B)

○ KCC-64 WEB

References

Key Installations

The **High-Capacity Zen Range** for commercial applications offers multiple installation possibilities that are highly energy-efficient and environmentally friendly. High-capacity equipment is notable for its ability to provide comfort to premises that require large airflows.

Volkswagen
Dealership

Location: Cabrera de Mar (Spain)
Units installed: High Capacity Zen

Other customers that have trusted Kaysun Zen

HOTELS, PUBLIC BUILDINGS HOSPITALS, HEALTH CLINICS AND CENTRES

- Autism Association of Jeréz (Cádiz)
- Joan XXIII Hospital (Tarragona)
- Salamanca Hospital (Salamanca)
- Sagrado Corazón Health Clinic (Madrid)
- Museum of Oil (Jaén)
- Depentya Foundation (Seville)
- Nuevo Arcangel Football Stadium (Córdoba)

PRIVATE RESIDENCES

- Residential Complex (Vera)
- Alpe Property Developments (Tortosa)
- 134 private residences in East Seville (Seville)
- Mercainmo Property Developments (Lleida)
- Residential Complex (Marbella)
- 503 private residences in Bekinsa Residential Complex (Seville)
- Las Brisas Hotel (Llanes)

BUSINESS CENTRES AND OFFICES

- Navarrete Offices (La Rioja)
- Eder Epele offices (Guipúzcoa)
- Greg Business Centre (Barcelona)
- Trade Fair (Valladolid)
- Electric Rooms- Asturiana del Zinz S.A.U. (Asturias)
- Galvanizados Avilés offices (Avilés)
- Retevisión Valladolid (Valladolid)
- Eiffage Energy offices (Ávila)
- Acofarma offices (Terrassa)
- Jordi Verna offices (Granollers)
- Banca March offices (Mallorca)
- Carrefour offices (Málaga)
- Barceló Market (Madrid)
- Day SWRO Desalination offices (Marruecos)
- Caja Rural Zamora bank offices (Zamora)

RESTAURANTS

- 100 Montaditos Brewery (Córdoba)
- Vermut Rofes Restaurants (Reus)
- La Sureña Brewery (Córdoba)
- WOK Restaurant (Cáceres)

COMMERCIAL BUILDING

- Unity Skates shop (Zaragoza)
- Lecrerc Mall (Málaga)
- Confecciones Rubio clothes shop (Cádiz, Seville and Córdoba)
- Aurgi (Madrid)
- Toyota authorised dealer (Oviedo)
- Stradivarius (Manresa)
- Vitaldent dental clinic (different locations)
- Lacoste (Vilagarcía de Arousa)
- Lowfit Gym (Seville)
- Basic Fit Gym (Madrid)
- Alimerka Supermarkets (León)

Encuentro
Fashion Stores

Location: Madrid and Seville (Spain)
Units installed: High Capacity Zen
Capacity: 100 kW

Basic Fit
Gym

Location: Madrid (Spain)
Units installed: High Capacity Zen
Capacity: 140 kW

Amazon

Industrial VRF Range

Outdoor Units. Presentation of the range
Amazon

2 pipes

Mini Amazon

Units requiring little installation space which cannot be combined; featuring Full DC Inverter technology. Available for single-phase or three-phase power supply, and with a capacity for up to 18 indoor units.

Power kW 8 10.5 12 14 16

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · CONDENSATION CONTROL · DC INVERTER EXTERNAL FAN

Amazon Unitario III Front Discharge

Individual systems with front air discharge. Full DC Inverter units with up to 2 compressors, with capacities available from 20 to 45 kW. Their main advantage is the little space required for installation.

Power kW 20 22.4 26 28 33.5 40 45

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · CONDENSATION CONTROL · DC INVERTER EXTERNAL FAN

Amazon Unitario Top Discharge

Non combinable outdoor units, with all the advantages of a s6 unit in individual format. Capacities of up to 90 kW in a single module, featuring all Kaysun technological advances.

Power kW 28 33.5 40 45 50 56 61.5 67 73 78.5 85 90

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · CONDENSATION CONTROL · DC INVERTER EXTERNAL FAN

Amazon V

The new Amazon V Full DC Inverter outdoor units have been designed to achieve high efficiency and increased energy saving. Their chief attributes include great reliability, high degree of adaptability, smart control and impressive capacities.

Power kW 25.2 28 33.5 40 45 56 61.5 67 73 78.5 85 90

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · CONDENSATION CONTROL · DC INVERTER EXTERNAL FAN · MODULAR

3 pipes

Amazon IV HR

The new heat recovery unit (3-pipe) allows cold and heat to be produced simultaneously, in addition to domestic hot water (up to 80°C). Thanks to advanced technology, according to certified EUROVENT data SEER performance of up to 7.7 can be achieved, placing them as leaders among this type of unit.

Power kW 25.2 28 33.5 40 45 50

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · CONDENSATION CONTROL · DC INVERTER EXTERNAL FAN · MODULAR

Amazon
Outdoor Units

Variable flow systems are the most versatile for medium and large installations, thanks to their innovative technology, wide range of cooling powers and the long possible lengths of piping. Units of this type provide outstanding energy efficiency, thanks to the use of Inverter technology in the compressors and DC fans, which are capable of varying the cooling capacity delivered in order to adapt it to the needs of each of the indoor units.

2 pipes

3 pipes

Different outdoor unit typologies

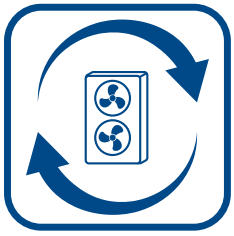
Kaysun employs several types of outdoor unit: from cooling powers of 8 kW in the Mini Amazon to s6 modular units capable of reaching 360 kW on a single cooling circuit. The range also offers air or water-condensed heat pumps and 3-pipe heat recovery systems, capable of providing cold and heat simultaneously in the new Amazon IV HR series.

Versatility of indoor units

The possibilities of the indoor units are endless, not only for the different models available, but also for their power range, which is so wide that it covers from 1.7 kW to 56 kW and can cover the installation of up to 64 indoor units on the same cooling circuit. The independent control of indoor units allows each user to choose its own comfort level without interfering with the rest of users.

High-efficiency DC Inverter technology

All outdoor units work with high-efficiency DC Inverter compressors. The type of compressor used on each machine depends on the range and may be twin rotary or Scroll type.

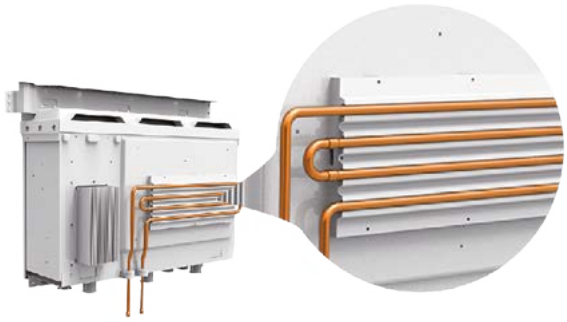


Replace technology

Keeping the existing piping, installation time is reduced. They contribute towards limiting impact and any negative effects for the environment.

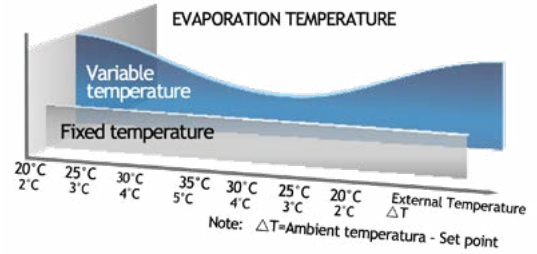
Refrigerant level control

Real-time control over refrigerant levels. The temperature and pressure of the refrigerant can be monitored by the outdoor unit.



High reliability

The Amazon V outdoor units feature control board cooling with a multi-tube refrigerant system to guarantee a stable temperature for the control board and IPM.



Variable evaporation temperature

Variable evaporation temperature (for cooling) and condensation temperature (for heating) vary automatically in accordance with the indoor and outdoor temperature in order to maximise energy efficiency and improve consumption.

Mini Amazon

Outdoor units designed to use in homes and small businesses, our Mini Amazon III/ Mini Amazon II range, with single and three-phase power supply, DC Inverter compressor, compact size and wide range of indoor units compatibility, is one of the all-purpose options from our catalogue.

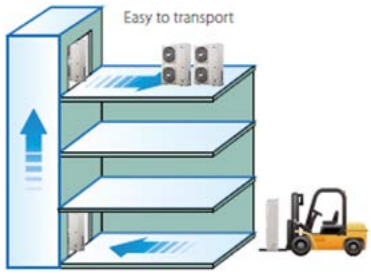
Up to 23% more compact

With a single fan, the Mini Amazon III outdoor units are an ideal option for those installations where available space is limited.

150 %

Simultaneous connection ratio of 150%

All outdoor units in the range allow up to 150% simultaneous connection ratio in terms of capacity of the connected indoor units.



Flexible installation

Easier to position and transport, allowing savings in installation time and transport costs.

Replace Technology

In retaining the existing cooling connections, installation time is reduced. They contribute towards limiting impact and any possible negative effects for the environment.

More complete control

There are several types of compatible controllers. The systems can be integrated in BMS systems (KNX, Bacnet, etc.) or even in centralised controllers.

8

10 / 12

14 / 16

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · CONDENSATION CONTROL · DC INVERTER EXTERNAL FAN

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Outdoor unit model	KMF-80 DVN4	KMF-105 DVN4	KMF-120 DVN4	KMF-140 DVN4	KMF-160 DVN4
Capacity; HP	3	4	4.5	5	6
Cooling capacity rated; kW	7.2	9	12.3	14	15.5
Cooling input rated; kW	2	3	4	5	7
EER	3.27	3.13	2.95	2.7	2.28
SEER	5.1	5.1	6.46	6.3	5.52
Energy efficiency ηs,c; %	-	-	255.6	249	217.8
Heating capacity rated; kW	7.2	9	14	16	17.5
Heating capacity rated at -7°C; kW	6.9	8.63	13.42	15.34	16.78
Heating input rated; kW	2	3	5	6	6
COP	3.75	3.32	3.07	2.87	2.79
COP at -7°C	2.85	2.51	2.33	2.18	2.12
SCOP	3.8	3.8	4.2	4.2	4.26
Energy efficiency ηs,h; %	-	-	165	165	167.2
No. indoor units	6	7	10	12	13
Compressor type	DC Rotary Inverter	DC Rotary Inverter	DC Rotary Inverter	DC Rotary Inverter	DC Rotary Inverter
No. compressor	1	1	1	1	1
No. fans	1	1	1	1	1
Air flow; m^3/h	3700	5200	5000	5400	5200
Sound pressure; dB(A)	54	54	56	56	56
Sound power level; dB(A)	67	70	73	74	74
Width / Height / Depth; mm	982 / 712 / 440	950 / 840 / 426	950 / 840 / 426	1040 / 865 / 523	1040 / 865 / 523
Net weight; kg	55	72.5	84	91.4	95.4
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x4	(2+T)x6	(2+T)x6	(2+T)x6
Communication protocol	s6	s6	s6	s6	s6
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant charge; kg	2.2	2.35	3	3.4	3.8
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 3/4"
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 55	-5 / 55	-5 / 55	-5 / 55	-5 / 55
Outdoor ambient temperature for heating min. / max.; °C	-15 / 27	-15 / 27	-15 / 27	-15 / 27	-15 / 27

Accessories	Model
Branch pipes	KCMI 112 (FRG100+FRG200)

NOTES:

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(3) Cooling capacity conditions - Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB; Equivalent length of piping 7.5 m with 0 m fall; Data calculated with Cassette-type indoor unit. Heating capacity conditions - Indoor temperature 20°C DB; Outdoor temperature 7°C DB/6°C WB; Equivalent length of piping 7.5 m with 0 m fall; Data calculated with Cassette-type indoor unit.
(4) Sound pressure level measured at a position 1 m in front of the unit at a height of 1 m above the floor using a semi-anechoic chamber.

Amazon Unitario III Front Discharge

Individual non-combinable outdoor units with powers ranging from 20 to 45 kW. Available in single or three-phase Full DC Inverter which incorporate rotary Inverter compressors and DC fans. Front discharge is an advantage because these compact units require little installation space.

Low space requirements for installation

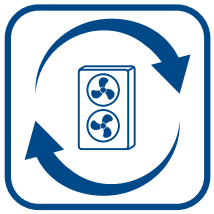
Thanks to front air discharge, these units are compact and require very little space for roof installation.

High-efficiency DC compressors and fans

The compressors used in these outdoor units are Twin Rotary Inverter models. These units employ DC fans which adapt their running and consumption to the needs of the equipment.

Simultaneous connection ratio of 150%

All outdoor units in the range allow up to 150% simultaneous connection ratio in terms of capacity of the connected indoor units.



Replace Technology

In retaining the existing cooling connections, installation time is reduced. They contribute towards limiting impact and any possible negative effects for the environment.

More complete control

There are several types of compatible controllers. The systems can be integrated in BMS systems (KNX, Bacnet, etc.) or even in centralised controllers.

20 / 22 / 26 / 28 / 33.5

40 / 45

R-410A REFRIGERANT · DC INVERTER COMPRESSOR · CONDENSATION CONTROL · DC INVERTER EXTERNAL FAN

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Outdoor unit model	KMF-200 DN4	KMF-224 DN4
Capacity; HP	7	8
Cooling capacity rated; kW	20	22.4
Cooling input rated; kW	5	7
EER	3.79	3.31
SEER	7.11	6.83
Energy efficiency ηs,c; %	281.40	270.2
Heating capacity rated; kW	22.5	25
Heating capacity rated at -7°C; kW	21.57	23.97
Heating input rated; kW	7	7
COP	3.78	3.75
COP at -7°C	2.95	2.93
SCOP	3.95	4.26
Energy efficiency ηs,h; %	155	167.4
No. indoor units	17	19
Compressor type	Rotary Inverter	Rotary Inverter
No. compressor	1	1
No. fans	2	2
Air flow; m^3/h	9000	9000
Sound pressure; dB(A)	58	58
Sound power level; dB(A)	78	78
Width / Height / Depth; mm	1120 / 1558 / 528	1120 / 1558 / 528
Net weight; kg	143	143
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x6	(4+T)x6
Communication protocol	s6	s6
Shielded communication wiring; mm^2	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A
Refrigerant charge; kg	6.5	6.5
Liquid / Gas pipe diameter; inch	1/2" / 3/4"	3/8" / 3/4"
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 48	-5 / 48
Outdoor ambient temperature for heating min. / max.; °C	-20 / 24	-20 / 24

Accessories	Model
Branch pipes	KCMI 112 (FRG100+FRG200)
Branch pipes	KCMI 212 (FRG100+FRG300)

NOTES:
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(3) Cooling capacity conditions - Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB; Equivalent length of piping 7.5 m with 0 m fall; Data calculated with Cassette-type indoor unit. Heating capacity conditions - Indoor temperature 20°C DB; Outdoor temperature 7°C DB/6°C WB; Equivalent length of piping 7.5 m with 0 m fall; Data calculated with Cassette-type indoor unit.
(4) Sound pressure level measured at a position 1 m in front of the unit at a height of 1 m above the floor using a semi-anechoic chamber.

Amazon Unitario III Front Discharge

R-410A REFRIGERANT | DC INVERTER COMPRESSOR | CONDENSATION CONTROL | DC INVERTER EXTERNAL FAN

Outdoor unit model	KMF-260 DN4	KMF-280 DN4	KMF-335 DN4
Capacity; HP	9	10	12
Cooling capacity rated; kW	26	28.5	33.5
Cooling input rated; kW	10	12	14
EER	2.59	2.33	2.19
SEER	6.55	6.35	6.42
Energy efficiency ηs,c; %	259	251	253.8
Heating capacity rated; kW	28.5	31.5	37.5
Heating capacity rated at -7°C; kW	27.32	30.2	35.95
Heating input rated; kW	7	7	9
COP	3.7	3.61	3.2
COP at -7°C	2.89	2.8	2.5
SCOP	4.53	4.6	3.96
Energy efficiency ηs,h; %	178.2	179.4	155.4
No. indoor units	22	24	29
Compressor type	Rotary Inverter	Rotary Inverter	Rotary Inverter
No. compressor	1	1	1
No. fans	2	2	2
Air flow; m^3/h	10000	11000	11300
Sound pressure; dB(A)	59	60	61
Sound power level; dB(A)	78	78	81
Width / Height / Depth; mm	1120 / 1558 / 528	1120 / 1558 / 528	1120 / 1558 / 528
Net weight; kg	144	144	157
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x6	(4+T)x6	(4+T)x10
Communication protocol	s6	s6	s6
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A
Refrigerant charge; kg	6.5	6.5	8
Liquid / Gas pipe diameter; inch	3/8" / 7/8"	3/8" / 7/8"	1/2" / 1"
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 48	-5 / 48	-5 / 48
Outdoor ambient temperature for heating min. / max.; °C	-20 / 24	-20 / 24	-20 / 24

Accessories	Model
Branch pipes	KCMI 112 (FRG100+FRG200)
Branch pipes	KCMI 212 (FRG100+FRG300)

NOTES:
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(4) Sound pressure level measured at a position 1 m in front of the unit at a height of 1 m above the floor using a semi-anechoic chamber.

20 / 22 / 26 / 28 / 33.5

40 / 45

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Outdoor unit model	KMF-400 DN3	KMF-450 DN3
Capacity; HP	14	16
Cooling capacity rated; kW	40	45
Cooling input rated; kW	19	20
EER	2.06	2.29
SEER	5.6	5.1
Energy efficiency ηs,c; %	221	201
Heating capacity rated; kW	40	45
Heating capacity rated at -7°C; kW	33	43.1
Heating input rated; kW	15	15
COP	2.67	2.94
COP at -7°C	1.94	2.24
SCOP	3.7	3.55
Energy efficiency ηs,h; %	145	139
No. indoor units	35	39
Compressor type	Rotary Inverter	Rotary Inverter
No. compressor	2	2
No. fans	2	2
Air flow; m^3/h	16575	16575
Sound pressure; dB(A)	62	62
Sound power level; dB(A)	82	83
Width / Height / Depth; mm	1360 / 1650 / 540	1460 / 1650 / 540
Net weight; kg	250	280
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x10	(4+T)x16
Communication protocol	s4+	s4+
Shielded communication wiring; mm^2	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A
Refrigerant charge; kg	9	12
Liquid / Gas pipe diameter; inch	1/2" / 7/8"	1/2" / 1"
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 48	-5 / 48
Outdoor ambient temperature for heating min. / max.; °C	-15 / 24	-15 / 24

Accessories	Model
Branch pipes	KCMI 112 (FRG100+FRG200)
Branch pipes	KCMI 212 (FRG100+FRG300)

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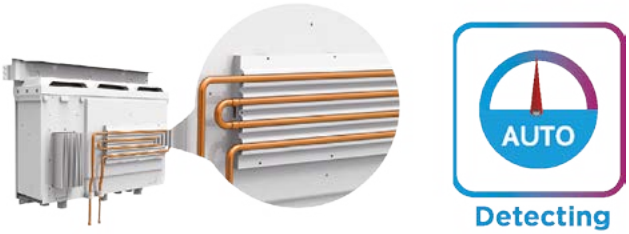
(4) Sound pressure level measured at a position 1 m in front of the unit at a height of 1 m above the floor using a semi-anechoic chamber.

Amazon Unitario Top Discharge

These 2-pipe individual Full DC Inverter high-technology outdoor units bring together the most efficient, advanced technology in air conditioning in order to provide our customers with a climate control system with high cooling capacity, high reliability, enhanced efficiency, great adaptability and a smart control system.

The largest individual module on the market

Kaysun has a unique model with the greatest capacity on the market, at 32 HP, in addition to a reduction in the space necessary for installation of up to 40% in comparison with previous generations.

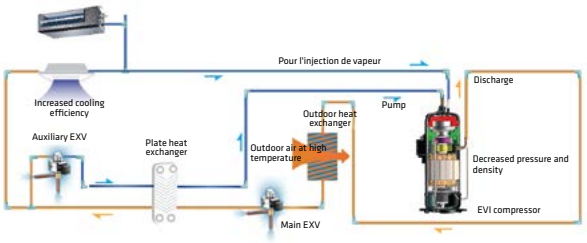


High reliability

The new Kaysun individual outdoor units feature control board cooling systems with a multi-pipe refrigerant system to guarantee a stable temperature for the control board and IPM. The units have a function which automatically detects the refrigerant level.

Huge adaptation capacity

The Amazon Unitario Top Air Discharge units adapt to any installation thanks to the long piping lengths which are possible. Up to 1,000 metres total piping length, 200 metres between the outdoor unit and the furthest indoor unit and 90 metres of fall between outdoor and indoor units.

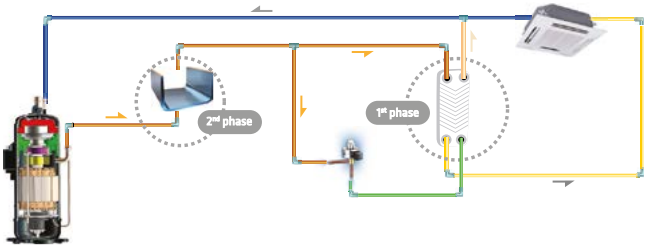


Highly efficient EVI compressor

Thanks to the Scroll DC Inverter compressor with vapour injection (EVI), the heating efficiency is increased by up to 26% in ambient temperatures of up to -15°C, and 10% in cooling in temperatures of 43°C.

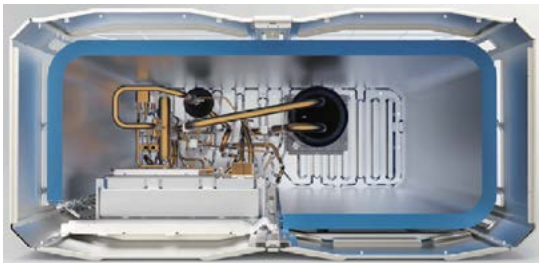
Energy management system (EMS)

With the EMS, the evaporation temperature (for cooling) and the condensation temperature (for heating) adjust automatically to maximise comfort and the energy efficiency of the units.



Improvement in sub-cooling for cooling

Thanks to the plate heat exchanger as the second sub-cooling stage for the refrigerant, an increase of up to 18°C is achieved, which provides improved performance in cooling in the units of up to 10%, with the subsequent increase in energy efficiency.



High-efficiency heat exchanger

The outdoor units in the Amazon Unitario Top Air Discharge range feature a highly efficient heat exchanger with up to 3 passes, with an increase in indoor tube diameter of 8 mm for better thermal exchange.

Mr. Doctor

This optional accessory allows us to access consultation and reading of operating parameters without the need to open the outdoor unit. In addition, it incorporates a processor capable of saving more than 30 minutes unit operational history.

Up to 64 indoor units and 150% simultaneous connection ratio

Depending on the capacity of the outdoor unit it is possible to connect up to 53 indoor units and achieve a simultaneous connection ratio of up to 150%.

Up to 60 Pa static pressure

The outdoor units in the Amazon Unitario Top Air Discharge feature static pressure of up to 60 Pa.

Amazon Unitario Top Discharge

R-410A REFRIGERANT | DC INVERTER COMPRESSOR | CONDENSATION CONTROL | DC INVERTER EXTERNAL FAN

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Outdoor unit model	K2UF-280 DN4 S	K2UF-335 DN4 S	K2UF-400 DN4 S	K2UF-450 DN4 S	K2UF-500 DN4 S	K2UF-560 DN4 S
Capacity; HP	10	12	14	16	18	20
Cooling capacity rated; kW	28	33.5	40	45	50	56
Cooling input rated; kW	11	14	15	21	28	34
EER	2.62	2.47	2.6	2.15	1.78	1.64
SEER	6.44	6.07	6.31	5.58	5.43	5.38
Energy efficiency ηs,c; %	254.4	239.8	249.3	220.3	214.2	212.2
Heating capacity rated; kW	30.2	37.5	45	50	56	63
Heating capacity rated at -7°C; kW	25.9	36	43	48	54	60
Heating input rated; kW	9	12	14	17	18	19
COP	3.57	3.2	3.3	3.02	3.11	3.28
COP at -7°C	2.33	2.44	2.52	2.3	2.37	2.5
SCOP	4.1	4.22	3.81	4.06	3.95	4.31
Energy efficiency ηs,h; %	160.9	165.7	149.5	159.4	155	169.5
No. indoor units	24	29	35	39	44	49
Compressor type	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter
No. compressor	1	1	1	1	1	2
No. fans	1	1	1	1	1	2
Air flow; m^3/h	11000	11000	13000	13000	13000	17000
Sound pressure; dB(A)	58	60	62	65	65	66
Sound power level; dB(A)	84	85	86	86	91	89
Width / Height / Depth; mm	990 / 1635 / 790	990 / 1635 / 790	1340 / 1635 / 850	1340 / 1635 / 850	1340 / 1635 / 850	1340 / 1635 / 825
Net weight; kg	227	227	277	277	295	344
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x4	(4+T)x6	(4+T)x10	(4+T)x16	(4+T)x16	(4+T)x16
Communication protocol	s6	s6	s6	s6	s6	s6
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant charge; kg	11	11	13	13	13	17
Liquid / Gas pipe diameter; inch	1/2" / 1"	5/8" / 1 1/8"	5/8" / 1 1/4"	5/8" / 1 1/4"	3/4" / 1 1/4"	3/4" / 1 1/4"
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48
Outdoor ambient temperature for heating min. / max.; °C	-23 / 24	-23 / 24	-23 / 24	-23 / 24	-23 / 24	-23 / 24

Accessories	Model
Branch pipes	KCMI 112 (FRG100+FRG200)
Branch pipes	KCMI 212 (FRG100+FRG300)
Branch pipes	KCMI 312 (FRG200+FRG300)
Branch pipes	KCMI 412 (FRG200+FRG400)
Branch pipes	KCMI 512 (FRG300+FRG500)

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(4) Sound pressure level measured at a position 1 m in front of the unit at a height of 1 m above the floor using a semi-anechoic chamber.

28 / 33

40 / 45 / 50 / 56 / 61

67 / 73 / 78 / 85 / 90

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Outdoor unit model	K2UF-615 DN4 S	K2UF-670 DN4 S	K2UF-730 DN4 S	K2UF-785 DN4 S	K2UF-850 DN4 S	K2UF-900 DN4 S
Capacity; HP	22	24	26	28	30	32
Cooling capacity rated; kW	61.5	67	73	78.5	85	85
Cooling input rated; kW	35	37	35	37	45	45
EER	1.67	1.83	2.11	2.03	1.89	1.89
SEER	5.07	5.37	5.77	5.43	5.15	5.15
Energy efficiency ηs,c; %	199.9	211.8	227.9	214.2	202.9	202.9
Heating capacity rated; kW	69	75	81.5	84.2	95	100
Heating capacity rated at -7°C; kW	63	72	78.1	80.7	91	96
Heating input rated; kW	23	25	26	29	28	31
COP	2.85	2.97	3.17	2.86	3.42	3.27
COP at -7°C	2.18	2.26	2.42	2.18	2.61	2.49
SCOP	4.42	4.36	4.14	4.45	4.08	4.08
Energy efficiency ηs,h; %	173.7	171.4	162.4	175.1	160.20	160.20
No. indoor units	54	59	64	64	64	64
Compressor type	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter
No. compressor	2	2	2	2	2	2
No. fans	2	2	2	2	2	2
Air flow; m^3/h	17000	25000	25000	25000	24000	24000
Sound pressure; dB(A)	66	67	68	68	68	68
Sound power level; dB(A)	89	89	93	93	93	93
Width / Height / Depth; mm	1340 / 1635 / 825	1730 / 1830 / 850	1730 / 1830 / 850	1730 / 1830 / 850	1730 / 1830 / 850	1730 / 1830 / 850
Net weight; kg	344	407	429	429	475	475
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x16	(4+T)x25	(4+T)x25	(4+T)x25	(4+T)x25	(4+T)x25
Communication protocol	s6	s6	s6	s6	s6	s6
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant charge; kg	17	22	22	22	25	25
Liquid / Gas pipe diameter; inch	3/4" / 1 1/4"	3/4" / 1 1/4"	7/8" / 1 1/4"	7/8" / 1 1/4"	7/8" / 1 1/2"	7/8" / 1 1/2"
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48
Outdoor ambient temperature for heating min. / max.; °C	-23 / 24	-23 / 24	-23 / 24	-23 / 24	-23 / 24	-23 / 24

Accessories	Model
Branch pipes	KCMI 112 (FRG100+FRG200)
Branch pipes	KCMI 212 (FRG100+FRG300)
Branch pipes	KCMI 312 (FRG200+FRG300)
Branch pipes	KCMI 412 (FRG200+FRG400)
Branch pipes	KCMI 512 (FRG300+FRG500)

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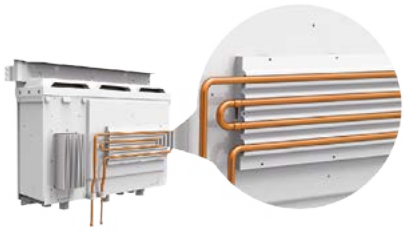
(4) Sound pressure level measured at a position 1 m in front of the unit at a height of 1 m above the floor using a semi-anechoic chamber.

Amazon V

These 2-pipe modular Full DC Inverter high-technology outdoor units bring together the most efficient, advanced technology in air conditioning in order to provide our customers with a climate control system with high cooling capacity, high reliability, enhanced efficiency, great adaptability and a smart control system.

Large capacity and reduced installation space

Kaysun has a unique model with the greatest capacity on the market, at 32 HP, and the option to combine up to 3 of these modules and achieve a cooling capacity of up to 96 HP. The Amazon V provides a reduction in the space necessary for installation of up to 40% in comparison with previous generations.

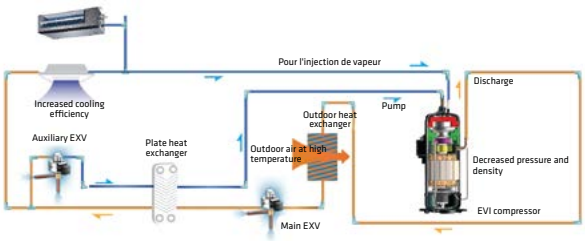


High reliability

The Amazon V feature control board cooling with a multi-tube refrigerant system to guarantee a stable temperature for the control board and IPM. These units have a function which automatically detects the refrigerant level.

Huge adaptation capacity

The Amazon V adapt to any installation thanks to the long piping lengths which are possible. Up to 1,000 metres total piping length, 200 metres between the outdoor unit and the furthest indoor unit and 90 metres of fall between outdoor and indoor units.

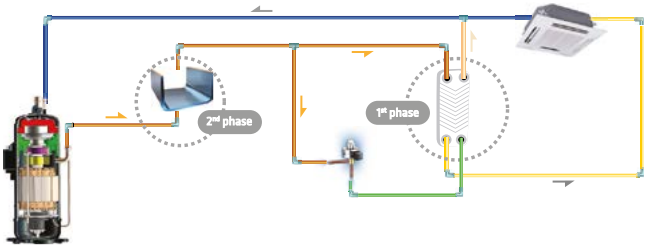


Highly efficient EVI compressor

Thanks to the Scroll DC Inverter compressor with vapour injection (EVI), the heating efficiency is increased by up to 26% in ambient temperatures of up to -15°C, and 10% in cooling in temperatures of 43°C.

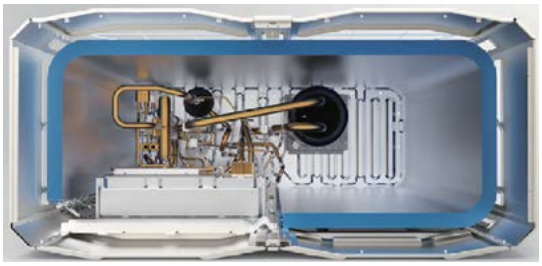
Energy management system (EMS)

With the EMS, the evaporation temperature (for cooling) and the condensation temperature (for heating) adjust automatically to maximise comfort and the energy efficiency of the units.



Improvement in sub-cooling for cooling

Thanks to the plate heat exchanger as the second sub-cooling stage for the refrigerant, an increase of up to 18°C is achieved, which provides improved performance in cooling in the units of up to 10%, with the subsequent increase in energy efficiency.



High-efficiency heat exchanger

The outdoor units in the Amazon V range feature a highly efficient heat exchanger with up to 3 passes, with an increase in indoor tuber diameter of 8 mm for better thermal exchange.

Mr. Doctor

This optional accessory allows us to access consultation and reading of operating parameters without the need to open the outdoor unit. In addition, it incorporates a processor capable of saving more than 30 minutes unit operational history.

Up to 64 indoor units and 150% simultaneous connection ratio

Depending on the capacity of the outdoor unit it is possible to connect up to 53 indoor units and achieve a simultaneous connection ratio of up to 150%.

Up to 60 Pa static pressure

The outdoor units in the Amazon V feature static pressure of up to 60 Pa.

Amazon V

R-410A REFRIGERANT | DC INVERTER COMPRESSOR | CONDENSATION CONTROL | DC INVERTER EXTERNAL FAN | MODULAR

	Combinable modules						
Outdoor unit model	**K2F-252 DN5S**	**K2F-280 DN5S**	**K2F-335 DN5S**	**K2F-400 DN5S**	**K2F-450 DN5S**	**K2F-500 DN5S**	**K2F-560 DN5S**
Capacity; HP	8	10	12	14	16	18	20
Cooling capacity rated; kW	25.2	28	33.5	40	45	50	56
Cooling input rated; kW	8	11	14	15	21	22	30
EER	3.01	2.65	2.47	2.63	2.17	2.31	1.89
SEER	6.86	6.5	6.07	6.37	5.64	5.93	5.38
Energy efficiency ηs,c; %	271.60	257.10	239.7	252	222.8	234.3	212.3
Heating capacity rated; kW	27	31.5	37.5	45	50	56	63
Heating capacity rated at -7°C; kW	25.9	30.2	36	43.1	47.9	53.7	60.4
Heating input rated; kW	7	9	12	14	16	16	18
COP	3.82	3.6	3.23	3.33	3.05	3.53	3.48
COP at -7°C	2.92	2.75	2.46	2.55	2.32	2.7	2.7
SCOP	4.06	4.14	4.26	3.85	4.31	4.1	4
Energy efficiency ηs,h; %	159.20	162.70	167.4	150.80	160.9	157	173.2
No. indoor units	22	24	29	35	39	44	49
Compressor type	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter
No. compressor	1	1	1	1	1	2	2
No. fans	1	1	1	1	1	2	2
Air flow; m^3/h	11000	11000	11000	13000	13000	17000	17000
Static pressure; Pa	60	60	60	60	60	60	60
Sound pressure; dB(A)	58	58	60	62	65	65	66
Sound power level; dB(A)	83	84	85	86	86	88	89
Width / Height / Depth; mm	990 / 1635 / 790	990 / 1635 / 790	990 / 1635 / 790	1340 / 1635 / 850	1340 / 1635 / 850	1340 / 1635 / 825	1340 / 1635 / 825
Net weight; kg	227	227	227	277	277	348	348
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x2,5	(4+T)x4	(4+T)x6	(4+T)x10	(4+T)x16	(4+T)x16	(4+T)x16
Communication protocol	s6	s6	s6	s6	s6	s6	s6
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant charge; kg	11	11	11	13	13	17	17
Liquid / Gas pipe diameter; inch	1/2" / 1"	1/2" / 1"	5/8" / 1 1/8"	5/8" / 1 1/4"	5/8" / 1 1/4"	3/4" / 1 1/4"	3/4" / 1 1/4"
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48
Outdoor ambient temperature for heating min. / max.; °C	-23 / 24	-23 / 24	-23 / 24	-23 / 24	-23 / 24	-23 / 24	-23 / 24

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Accessories	Model
Branch pipes	KCMI 112 (FRG100+FRG200)
Branch pipes	KCMI 212 (FRG100+FRG300)
Branch pipes	KCMI 312 (FRG200+FRG300)
Branch pipes	KCMI 412 (FRG200+FRG400)
Branch pipes	KCMI 512 (FRG300+FRG500)
Outdoor modules T-type branch pipes	KCME 12.6
Outdoor modules T-type branch pipes	KCME 13.6

NOTES:
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(3) Cooling capacity conditions: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB; Equivalent length of piping 7.5 m with 0 m fall; Data calculated with Duct-type indoor unit. Heating capacity conditions: Indoor temperature 20°C DB; Outdoor temperature 7°C DB/6°C WB; Equivalent length of piping 7.5 m with 0 m fall; Data calculated with Duct-type indoor unit.
(4) The diameters given are for the piping that connects the combination of the outdoor unit with the first indoor branch for systems with total equivalent liquid piping lengths below 90 m. For systems with total equivalent liquid piping lengths of 90 or more, see the engineering data book in order to determine the diameters of the connecting piping.
(5) Sound pressure level measured at a position 1 m in front of the unit at a height of 1 m above the floor using a semi-anechoic chamber.

25 / 28 / 33

40 / 45 / 50 / 56 / 61

67 / 73 / 78 / 85 / 90

	Combinable modules					
Outdoor unit model	**K2F-615 DN5S**	**K2F-670 DN5S**	**K2F-730 DN5S**	**K2F-785 DN5S**	**K2F-850 DN5S**	**K2F-900 DN5S**
Capacity; HP	22	24	26	28	30	32
Cooling capacity rated; kW	59	67	73	75.5	85	90
Cooling input rated; kW	35	32	34	37	45	45
EER	1.71	2.1	2.1	2.03	1.89	1.89
SEER	5.1	5.68	5.83	5.43	5.68	5.83
Energy efficiency ηs,c; %	201	224.3	230.3	214.4	224.3	230.3
Heating capacity rated; kW	66.2	75	81.5	84.2	95	100
Heating capacity rated at -7°C; kW	63.5	71.9	78.1	80.7	91.1	95.9
Heating input rated; kW	22	21	25	29	28	30
COP	3.03	3.58	3.23	2.95	3.45	3.3
COP at -7°C	2.3	2.73	2.46	2.25	2.63	2.52
SCOP	4.4	4.45	4.22	4.59	4.45	4.22
Energy efficiency ηs,h; %	182.9	174.8	165.9	180.5	174.8	165.9
No. indoor units	54	59	64	64	64	64
Compressor type	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter
No. compressor	2	2	2	2	2	2
No. fans	2	2	2	2	2	2
Air flow; m^3/h	17000	25000	25000	25000	24000	24000
Static pressure; Pa	60	60	60	60	60	60
Sound pressure; dB(A)	66	67	68	68	68	68
Sound power level; dB(A)	89	92	93	93	93	93
Width / Height / Depth; mm	1340 / 1635 / 825	1730 / 1830 / 850	1730 / 1830 / 850	1730 / 1830 / 850	1730 / 1830 / 850	1730 / 1830 / 850
Net weight; kg	348	430	430	430	475	475
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x16	(4+T)x25	(4+T)x25	(4+T)x25	(4+T)x25	(4+T)x25
Communication protocol	s6	s6	s6	s6	s6	s6
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant charge; kg	17	22	22	22	25	25
Liquid / Gas pipe diameter; inch	3/4" / 11/4"	3/4" / 11/4"	7/8" / 11/2"	7/8" / 11/2"	7/8" / 11/2"	7/8" / 11/2"
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48	-5 / 48
Outdoor ambient temperature for heating min. / max.; °C	-23 / 24	-23 / 24	-23 / 24	-23 / 24	-23 / 24	-23 / 24

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Accessories	Model
Branch pipes	KCMI 112 (FRG100+FRG200)
Branch pipes	KCMI 212 (FRG100+FRG300)
Branch pipes	KCMI 312 (FRG200+FRG300)
Branch pipes	KCMI 412 (FRG200+FRG400)
Branch pipes	KCMI 512 (FRG300+FRG500)
Outdoor modules T-type branch pipes	KCME 12.6
Outdoor modules T-type branch pipes	KCME 13.6

NOTES:

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(3) Cooling capacity conditions: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB; Equivalent length of piping 7.5 m with 0 m fall; Data calculated with Duct-type indoor unit. Heating capacity conditions: Indoor temperature 20°C DB; Outdoor temperature 7°C DB/6°C WB; Equivalent length of piping 7.5 m with 0 m fall; Data calculated with Duct-type indoor unit.
(4) The diameters given are for the piping that connects the combination of the outdoor unit with the first indoor branch for systems with total equivalent liquid piping lengths below 90 m. For systems with total equivalent liquid piping lengths of 90 or more, see the engineering data book in order to determine the diameters of the connecting piping.
(5) Sound pressure level measured at a position 1 m in front of the unit at a height of 1 m above the floor using a semi-anechoic chamber.

Amazon IV HR

The Amazon IV HR outdoor groups are variable flow Full DC Inverter with heat recovery (3-pipe). Thanks to their multigroup Inverter boxes, they can produce heat and cold simultaneously on the same cooling circuit. They can achieve capacities of up to 150 kW through the combination of modules, and the units stand out for their high energy efficiency.

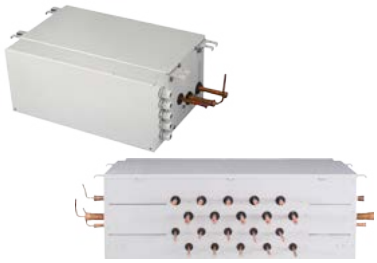
x3

Modular unit

The possibility of combining up to 3 of these modules and capacities which can reach up to 150 kW in cooling mode. The Amazon IV HR units can reduce installation space.

Production of hot water up to 80°C

Thanks to this module, it is possible to produce domestic hot water up to 80°C which is valid for all applications, thanks to its R-410A and R-134A dual stage.



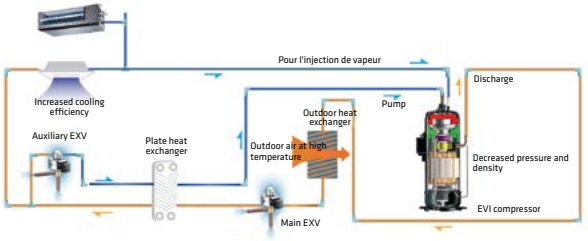
MS01 multigroup boxes

They incorporate a 3200-position valve, in addition to having contacts for leak sensor, alarm and fan stop/start.

200 %

Up to 200% simultaneous connection ratio

All the outdoor units in the Amazon range allow a simultaneous connection ratio of up to 200% for the Amazon IV HR, regarding the capacity of connected indoor units.



Highly efficient EVI compressor

Thanks to the Scroll DC Inverter compressor with vapour injection (EVI), the heating efficiency is increased by up to 26% in ambient temperatures of up to -15°C, and 10% in cooling in temperatures of 43°C.

R-410A REFRIGERANT | DC INVERTER COMPRESSOR | CONDENSATION CONTROL | DC INVERTER EXTERNAL FAN | MODULAR

25 / 28 / 33

40 / 45 / 50

Combinable modules

Outdoor unit model	K3F-252 DN4S	K3F-280 DN4S	K3F-335 DN4S	K3F-400 DN4S	K3F-450 DN4S	K3F-500 DN4S
Capacity; HP	8	10	12	14	16	18
Cooling capacity rated; kW	22.4	28	33.5	40	45	50
Cooling input rated; kW	7	10	12	13	17	22
EER	3.43	2.86	2.82	3.03	2.58	2.27
SEER	7.26	6.6	6.8	6.65	6.44	6.22
Energy efficiency ηs,c; %	287.3	261.2	269.10	263.2	254.7	245.7
Heating capacity rated; kW	25	31.5	37.5	45	50	56
Heating capacity rated at -7°C; kW	25	31	31	43.1	45.7	49.5
Heating input rated; kW	6	9	12	13	16	17
COP	3.97	3.5	3.17	3.5	3.15	3.28
COP at -7°C	2.48	2.14	2.3	2.33	2.23	2.4
SCOP	4.29	4.39	4.59	4.27	4.33	4.35
Energy efficiency ηs,h; %	168.5	172.7	180.8	168	170.2	170.9
No. indoor units	64	64	64	64	64	64
Compressor type	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter
No. compressor	1	1	1	1	1	1
No. fans	1	1	1	2	2	2
Air flow; m^3/h	9000	9500	10000	14000	14900	15800
Static pressure; Pa	80	80	80	80	80	80
Sound pressure; dB(A)	58	61	62	64	64	65
Sound power level; dB(A)	78	82	83	84	88	88
Width / Height / Depth; mm	990 / 1635 / 790	990 / 1635 / 790	990 / 1635 / 790	1340 / 1635 / 825	1340 / 1635 / 825	1340 / 1635 / 825
Net weight; kg	232	232	232	300	300	300
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Power wiring; mm^2	(4+T)x4	(4+T)x6	(4+T)x6	(4+T)x10	(4+T)x10	(4+T)x16
Communication protocol	s6	s6	s6	s6	s6	s6
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant charge; kg	8	8	8	10	10	10
Liquid / Gas pipe diameter; inch	1/2" /	1/2" /	1/2" /	5/8" /	5/8" /	5/8" /
Low / High pressure gas pipe diameter; inch	1" / 3/4"	1" / 3/4"	1" / 3/4"	1 1/8" / 7/8"	1 1/8" / 7/8"	1 1/8" / 7/8"
Outdoor ambient temperature for cooling min. / max.; °C	-5 / 52	-5 / 52	-5 / 52	-5 / 52	-5 / 52	-5 / 52
Outdoor ambient temperature for heating min. / max.; °C	-25 / 19	-25 / 19	-25 / 19	-25 / 19	-25 / 19	-25 / 19
Outdoor ambient temperature for DHW min. / max.; °C	-20 / 43	-20 / 43	-20 / 43	-20 / 43	-20 / 43	-20 / 43

Model	KVBM-32 DN4S	KVBM-49 DN4S	KVBM-63 DN4S	KVBM-85 DN4S
Max. power per output; kW	32	16	16	16
Max. power per changeover box; kW	32	49	63	85
No. indoors per output	8	5	5	5
No. indoors per changeover box	8	20	30	47
No. outlets	1	4	6	10
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75
Width / Height / Depth; mm	440 / 195 / 296	668 / 250 / 574	668 / 250 / 574	974 / 250 / 574
Net weight; kg	10.5	33	36	51
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Liquid pipe diameter; inch	3/8" // 1/2"	3/8" // 1/2" // 5/8" // 3/4"	3/8" // 1/2" // 5/8" // 3/4"	3/8" // 5/8" // 3/4" // 7/8"
High pressure gas pipe diameter; inch	5/8" // 3/4" // 7/8"	3/4" // 7/8" // 1 1/4"	3/4" // 7/8" // 1 1/4"	3/4" // 1 1/4" // 1 3/8"
Low pressure gas pipe diameter; inch	1/2" // 5/8" // 3/4"	5/8" // 3/4" // 7/8" // 1 1/4"	5/8" // 3/4" // 7/8" // 1 1/4"	5/8" // 7/8" // 1 1/4"
Outlet liquid pipe diameter; inch	1/4" // 3/8"	1/4" // 3/8"	1/4" // 3/8"	1/4" // 3/8"
Outlet gas pipe diameter; inch	1/2" // 5/8"	1/2" // 5/8"	1/2" // 5/8"	1/2" // 5/8"

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Accessories	Model
Branch pipes	KCMI 113 (FRG100+FRG200+FRG200)
Branch pipes	KCMI 213 (FRG100+FRG200+FRG300)
Branch pipes	KCMI 313 (FRG200+FRG300+FRG300)
Branch pipes	KCMI 413 (FRG200+FRG300+FRG400)
Branch pipes	KCMI 513 (FRG300+FRG400+FRG500)
Outdoor modules T-type branch pipes	KCMER 32
Outdoor modules T-type branch pipes	KCMER 33

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(4) The diameters given are for the piping that connects the combination of the outdoor unit with the first indoor branch for systems with total equivalent liquid piping lengths below 90 m. For systems with total equivalent liquid piping lengths of 90 or more, see the engineering data book in order to determine the diameters of the connecting piping.
(5) Sound pressure level measured at a position 1 m in front of the unit at a height of 1 m above the floor using a semi-anechoic chamber.

Indoor Units. Presentation of the range
Amazon

Ducts

Power kW 1.7 2.2 2.8 3.6 4.5 5.6 7.1 8 9 11.2 14

R-410A REFRIGERANT · DC INVERTER INTERNAL FAN · DRAINAGE PUMP · COMPATIBLE WITH AIRZONE · ON/OFF CONTACT · AIR INTAKE · FRESH AIR SUPPLY

Ducts High Pressure

Power kW 7.1 9 11.2 14 16 20 25 28 40 45 56

R-410A REFRIGERANT · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE · ON/OFF CONTACT

Cassette Art Flux 360° 600x600

Power kW 1.7 2.2 2.8 3.6 4.5 5.2

R-410A REFRIGERANT · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE · ON/OFF CONTACT · AIR OUTLET 360°

Cassette Art Flux 360° 840x840

Power kW 5.6 7.1 8 10 11.2 14

R-410A REFRIGERANT · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE · ON/OFF CONTACT · FRESH AIR SUPPLY · AIR OUTLET 360°

One Way Cassette

Power kW 2.2 3.6 7.1

R-410A REFRIGERANT · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE · ON/OFF CONTACT

Floor Standing Exposed/Concealed

Power kW 2.2 3.6 5.6 7.1

R-410A REFRIGERANT · DC INVERTER INDOOR INTERNAL FAN · A COMPATIBLE WITH AIRZONE · ON/OFF CONTACT

Wall-mounted

Power kW 1.7 2.2 2.8 3.6 4.5 5.6 8

R-410A REFRIGERANT · DC INVERTER INDOOR INTERNAL FAN · A COMPATIBLE WITH AIRZONE · ON/OFF CONTACT

Floor/Ceiling

Power kW 5.6 9 14

R-410A REFRIGERANT · DC INVERTER INDOOR INTERNAL FAN · A COMPATIBLE WITH AIRZONE · ON/OFF CONTACT

KAHU

Power kW from 2 **to** 56

R-410A REFRIGERANT

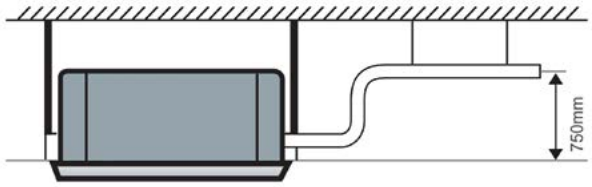
High Temperature Hydraulic Module

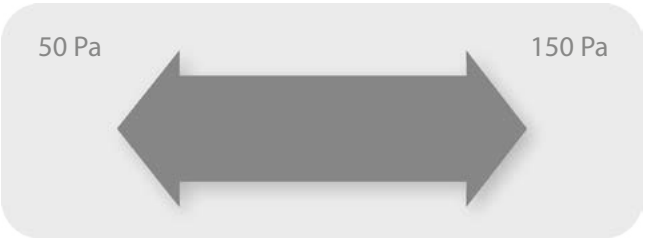
Power kW 14

R-134A REFRIGERANT · R-410A REFRIGERANT · DOMESTIC HOT WATER · DC INVERTER COMPRESSOR · ON/OFF CONTACT

Ducts

The Kaysun range for ducts for VRF systems in an excellent solution for places where it is necessary to distribute the air in a balanced way. Equipped with DC Inverter fans, they stand out for their compact, versatile design which fits perfectly within any false ceiling. A unit with all options available as standard.





Condensation pump as standard

All units have a condensation pump with the capacity to raise the level of water to a height difference of 750 mm.

Capacity to adapt

It is possible to change the available pressure on the unit in order to adapt the unit to the installation in a way that is ideal.

Air renewal

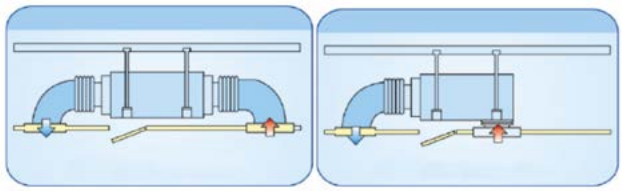
It is possible to add air from outdoors via a pre-stamped hole on the side of the unit, and thus introduce cleaner, fresher air within the premises without overlooking the temperature or well-being of the user.

Energy efficiency

The Kaysun ducts use DC fans that constantly adapt operation and consumption to the needs of the unit, seeking maximum energy efficiency at all times.

Control options

Although wired controller is recommended for these units, by increasing the range of the receiver incorporated within the duct unit, it is possible to control the unit via a KI-04 S wireless controller.



Suction orientation

With the aim of facilitating installation, it is possible to fit the air return to the rear or bottom of the unit, with just a small change in orientation.

KCT-03 SR
Recommended

R-410A REFRIGERANT · DC INVERTER INTERNAL FAN · DRAINAGE PUMP · COMPATIBLE WITH AIRZONE · ON/OFF CONTACT · AIR INTAKE · FRESH AIR SUPPLY

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Indoor unit model	KPDF-17 DN4.0	KPDF-22 DN4.0	KPDF-28 DN4.0	KPDF-36 DN4.0	KPDF-45 DN4.0	KPDF-56 DN4.0
Power input; W	40	40	40	45	92	92
Cooling capacity rated; kW	1.7	2.2	2.8	3.6	4.5	5.6
Heating capacity rated; kW	2.2	2.6	3.2	4	5	6.3
Air flow; m^3/h	300 / 330 / 360 / 400 / 440 / 480 / 490	300 / 330 / 360 / 400 / 440 / 480 / 520	300 / 330 / 360 / 400 / 440 / 480 / 520	370 / 400 / 430 / 460 / 500 / 540 / 580	400 / 480 / 540 / 620 / 680 / 740 / 800	560 / 600 / 640 / 680 / 720 / 760 / 830
Sound pressure; dB(A)	23 / 25 / 26 / 28 / 29 / 31 / 32	31 / 32 / 33 / 34 / 34 / 35 / 35	31 / 32 / 33 / 34 / 34 / 35 / 35	33 / 34 / 35 / 36 / 36 / 37 / 37	33 / 34 / 35 / 36 / 37 / 37 / 38	33 / 34 / 35 / 36 / 37 / 38 / 38
Max. pressure available; Pa	50	50	50	50	50	50
Width / Height / Depth; mm	780 / 210 / 500	780 / 210 / 500	780 / 210 / 500	780 / 210 / 500	1000 / 210 / 500	1000 / 210 / 500
Net weight; kg	18	18	18	18	21.5	21.5
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"

Indoor unit model	KPDF-71 DN4.0	KPDF-80 DN4.0	KPDF-90 DN4.0	KPDF-112 DN4. 0	KPDF-140 DN4.0
Power input; W	98	110	120	200	250
Cooling capacity rated; kW	7.1	8	9	11.2	14
Heating capacity rated; kW	8	9	10	12.5	15.5
Air flow; m^3/h	680 / 720 / 780 / 840 / 900 / 960 / 1000	780 / 860 / 940 / 1020 / 1100 / 1180 / 1260	780 / 860 / 940 / 1020 / 1100 / 1180 / 1260	1080 / 1140 / 1210 / 1290 / 1360 / 1430 / 1500	1360 / 1460 / 1560 / 1660 / 1760 / 1860 / 1960
Sound pressure; dB(A)	34 / 35 / 36 / 37 / 38 / 39 / 40	37 / 38 / 39 / 41 / 42 / 43 / 44	37 / 38 / 39 / 41 / 42 / 43 / 44	37 / 39 / 41 / 43 / 44 / 46 / 47	38 / 39 / 41 / 43 / 44 / 46 / 47
Max. pressure available; Pa	50	100	100	100	100
Width / Height / Depth; mm	1220 / 210 / 500	1230 / 270 / 775	1230 / 270 / 775	1230 / 270 / 775	1290 / 300 / 865
Net weight; kg	27.5	36.5	37	37	46.5
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"

Cooling and heating capacity. Power input: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Shielded communication wiring: If these units are installed with systems that are not s6 series external units, then shielded communication wires will be necessary.
Compatible controllers: These units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.

Ducts High Pressure

The Kaysun range of high pressure duct system is ideal for the climate control of large areas, as it provides high cooling power and available pressures of up to 300 Pa, in conjunction with high air flows. Thanks to the wide variety of outdoor units, it can also be adapted to any type of installation in an ideal manner.

Large air flows and excellent cooling power

The high pressure ducts are designed to handle high cooling power and large air flows, and thus control the climate in an optimum manner, without huge local or surface problems.

Energy efficiency

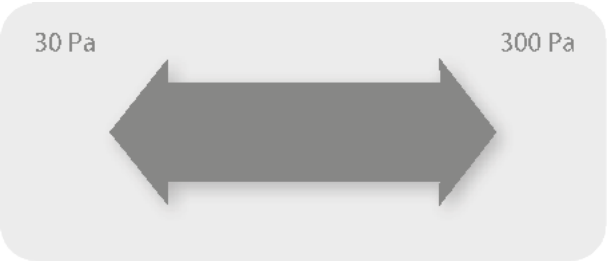
The indoor units in the range of up to 28 kW use DC fans that constantly adapt operation and consumption to the needs of the unit, seeknig maximum energy efficiency at all times.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.

Control options

Although wired controller is recommended for these units, by increasing the range of the receiver incorporated within the duct unit, it is possible to control the unit via a KI-04 S wireless controller.



Capacity of adapt

The Kaysun high pressure duct systems feature a high static pressure of up to 300 Pa to cover long ducting runs, which provides greater installation flexibility and precise climate control, even in rooms with high ceilings.

KCT-03 SR
Recommended

R-410A REFRIGERANT | DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE | ON/OFF CONTACT

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Indoor unit model	KPDHF-71 DN4.0	KPDHF-90 DN4.0	KPDHF-112 DN4.0	KPDHF-140 DN4.0	KPDHF-160 DN4.0	KPDHF-200 DN4.0
Power input; W	180	220	380	420	700	990
Cooling capacity rated; kW	7.1	9	11.2	14	16	20
Heating capacity rated; kW	8	10	12.5	16	17	22.5
Air flow; m^3/h	1159 / 1197 / 1234 / 1264 / 1296 / 1333 / 1360	1151 / 1195 / 1237 / 1264 / 1328 / 1378 / 1428	1354 / 1429 / 1528 / 1614 / 1695 / 1775 / 1886	1601 / 1707 / 1818 / 1927 / 2033 / 2127 / 2258	1879 / 2013 / 2099 / 2239 / 2354 / 2501 / 2608	3745 / 3837 / 3941 / 4043 / 4144 / 4237 / 4358
Sound pressure; dB(A)	42 / 43 / 44 / 45 / 45 / 46 / 46	45 / 46 / 47 / 48 / 49 / 50 / 50	45 / 46 / 47 / 48 / 49 / 50 / 50	48 / 49 / 50 / 51 / 51 / 52 / 53	50 / 50 / 51 / 52 / 53 / 54 / 54	50 / 52 / 53 / 54 / 55 / 56 / 57
Max. pressure available; Pa	200	200	200	200	200	250
Width / Height / Depth; mm	952 / 420 / 690	952 / 420 / 690	952 / 420 / 690	1300 / 420 / 690	1300 / 420 / 690	1440 / 505 / 925
Net weight; kg	41	51	51	63	63	130
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	1/2" / 7/8"

Indoor unit model	KPDHF-250 DN4.0	KPDHF-280 DN4.0	KPDHF-400 DN4.0	KPDHF-450 DN4.0	KPDHF-560 DN4.0
Power input; W	1200	1200	1585	1585	2272
Cooling capacity rated; kW	25	28	40	45	56
Heating capacity rated; kW	26	31.5	45	56	63
Air flow; m^3/h	3745 / 3837 / 3941 / 4043 / 4144 / 4237 / 4358	3745 / 3837 / 3941 / 4043 / 4144 / 4237 / 4358	4400 / 4750 / 5100 / 5450 / 5800 / 6150 / 6500	4400 / 4750 / 5100 / 5450 / 5800 / 6150 / 6500	5000 / 5400 / 5800 / 6200 / 6600 / 7000 / 7400
Sound pressure; dB(A)	50 / 52 / 53 / 54 / 55 / 56 / 57	50 / 52 / 53 / 54 / 55 / 56 / 57	49 / 51 / 53 / 54 / 55 / 56 / 57	49 / 51 / 53 / 54 / 55 / 56 / 57	51 / 53 / 55 / 56 / 57 / 58 / 59
Max. pressure available; Pa	250	250	300	300	300
Width / Height / Depth; mm	1440 / 505 / 925	1440 / 505 / 925	2010 / 680 / 905	2010 / 680 / 905	2010 / 680 / 905
Net weight; kg	130	130	210	210	218
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	1/2" / 7/8"	1/2" / 7/8"	5/8" / 1 1/8"	5/8" / 1 1/8"	5/8" / 1 1/8"

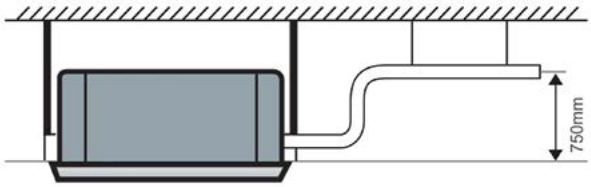
Cooling and heating capacity. Power input: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Shielded communication wiring: If these units are installed with systems that are not s6 series external units, then shielded communication wires will be necessary.
Compatible controllers: These units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.

Cassette Art Flux 360° 600x600

The Kaysun Cassette Compact 600x600 units with 360° conditioned air flow achieve uniform, rapid climate control which reached every corner of the room thanks to their DC Inverter fans.

Condensation pump as standard

These machines incorporate condensation pumps as standard, which allow the water to be raised to a difference in height of 750 mm.

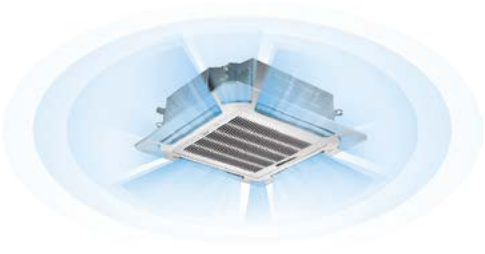


Energy efficiency

These cassettes use DC fans that constantly adapt operation and consumption to the needs of the unit, seeking maximum energy efficiency at all times.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.



Greater comfort

The Kaysun cassette units are fitted with a 360° air diffusion system that allows them to control the climate in every corner of the room and provide maximum comfort to users.

Control options

Although wireless controller is recommended for these units, there is the option to manage them via wire, thus increasing the possibilities to adapt to any installation.

KI-04 S
Recommended

R-410A REFRIGERANT | DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE | ON/OFF CONTACT | AIR OUTLET 360°

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Indoor unit model	KCIF-17 DN4.0	KCIF-22 DN4.0	KCIF-28 DN4.0	KCIF-36 DN4.0	KCIF-45 DN3.0	KCIF-52 DN4.0
Power input; W	35	35	35	40	50	62
Cooling capacity rated; kW	1.7	2.2	2.8	3.6	4.5	5.2
Heating capacity rated; kW	2.2	2.4	3.2	4	5	5.6
Air flow; m^3/h	238 / 268 / 288 / 300 / 313 / 345 / 380	405 / 441 / 462 / 503 / 524 / 552 / 576	405 / 441 / 462 / 503 / 524 / 552 / 576	400 / 434 / 478 / 516 / 541 / 573 / 604	400 / 434 / 478 / 516 / 541 / 573 / 604	350 / 380 / 410 / 446 / 481 / 580 / 635
Sound pressure; dB(A)	22 / 23 / 26 / 29 / 33 / 34 / 35	22 / 23 / 26 / 29 / 33 / 34 / 35	22 / 23 / 26 / 29 / 33 / 34 / 35	28 / 29 / 30 / 32 / 35 / 38 / 41	28 / 29 / 30 / 32 / 35 / 38 / 41	28 / 29 / 30 / 32 / 35 / 48 / 52
Panel; Width / Height / Depth; mm	647 / 50 / 647	648 / 50 / 648	648 / 50 / 648	648 / 50 / 648	648 / 50 / 648	647 / 50 / 647
Panel; Net weight; kg	2.5	2.5	2.5	2.5	2.5	2.5
Width / Height / Depth; mm	630 / 260 / 570	630 / 260 / 570	630 / 260 / 570	630 / 260 / 570	630 / 260 / 570	630 / 260 / 570
Net weight; kg	18	18	18	19.2	19.2	19.2
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"

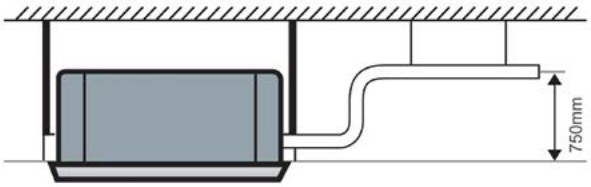
Cooling and heating capacity. Power input: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Shielded communication wiring: If these units are installed with systems that are not s6 series external units, then shielded communication wires will be necessary.
Compatible controllers: This units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.

Cassette Art Flux 360° 840x840

The Kaysun Cassette 840x840 units are an ideal solution to install in any type of ceiling and obtain climate control in optimum conditions. Thanks to the DC Inverter fan and the panel with 360° air flow, uniform, rapid, far-reaching climate control is achieved.

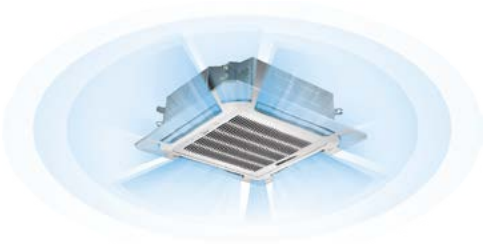
Air renewal

The possibility to send fresh air directly into the unit's suction area, with the aim of keeping the indoor environment renewed, fresh and healthy.



Condensation pump as standard

These machines incorporaate condensation pumps as standard, which allow the water to be raised to a difference in height of 750 mm.



Greater comfort

The Kaysun cassette units are fitted with a 360° air diffusion system that allows them to control the climate in every corner of the room and provide maximum comfort to users.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.

Energy efficiency

These cassettes use DC fans that constantly adapt operation and consumption to the needs of the unit, seeking maximum energy efficiency at all times.

Control options

Although wireless controller is recommended for these units, there is the option to manage them via wire, thus increasing the possibilities to adapt to any installation.

KI-04 S
Recommended

R-410A REFRIGERANT · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE · ON/OFF CONTACT · FRESH AIR SUPPLY · AIR OUTLET 360°

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Indoor unit model	KCIBF-56 DN4.0	KCIBF-71 DN4.0	KCIBF-80 DN4.0	KCIBF-100 DN4.0	KCIBF-112 DN4.0	KCIBF-140 DN4.0
Power input; W	31	46	48	75	75	94
Cooling capacity rated; kW	5.6	7.1	8	10	11.2	14
Heating capacity rated; kW	6.3	8	9	11	12.5	16
Air flow; m^3/h	704 / 756 / 801 / 857 / 899 / 957 / 1029	748 / 866 / 920 / 996 / 1065 / 1132 / 1200	811 / 893 / 975 / 1055 / 1117 / 1195 / 1264	1034 / 1087 / 1154 / 1239 / 1365 / 1477 / 1596	1034 / 1087 / 1154 / 1239 / 1365 / 1477 / 1596	1224 / 1289 / 1351 / 1426 / 1517 / 1622 / 1727
Sound pressure; dB(A)	34 / 35 / 36 / 38 / 39 / 41 / 43	34 / 35 / 37 / 39 / 41 / 43 / 45	35 / 36 / 38 / 40 / 42 / 44 / 46	36 / 37 / 39 / 41 / 43 / 45 / 47	36 / 37 / 39 / 41 / 43 / 45 / 47	35 / 36 / 38 / 45 / 46 / 48 / 50
Panel; Width / Height / Depth; mm	950 / 55 / 950	950 / 55 / 950	950 / 55 / 950	950 / 55 / 950	950 / 55 / 950	950 / 55 / 950
Panel; Net weight; kg	5	5	5	5	5	5
Width / Height / Depth; mm	904 / 230 / 840	904 / 230 / 840	904 / 230 / 840	904 / 300 / 840	904 / 300 / 840	904 / 300 / 840
Net weight; kg	23.2	23.2	23.2	28.4	28.4	30.7
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"

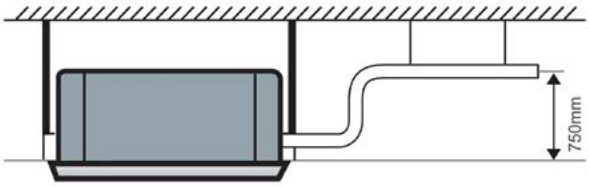
Cooling and heating capacity. Power input: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Shielded communication wiring: If these units are installed with systems that are not s6 series external units, then shielded communication wires will be necessary.
Compatible controllers: These units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.

One Way Cassette

Units featuring a compact, light design, making the installation of the unit much easier. Thanks to its contained profile of only 153 mm, depending on the capacity, they are ideal to install in very shallow false ceiling.

Air renewal

The possibility to send fresh air directly into the unit's suction area, with the aim of keeping the indoor environment renewed, fresh and healthy.



Condensation pump as standard

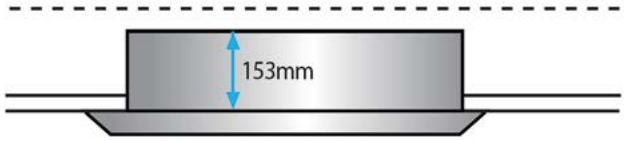
These machines incorporate condensation pumps as standard, which allow the water to be raised to a difference in height of 750 mm.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.

Control options

Although wireless controller is recommended for these units, there is the option to manage them via wire, thus increasing the possibilities to adapt to any installation.



Very compact unit

They are extremely compact units capable of fitting within any false ceiling. The two units with the least capacity only need a height of 153 mm in the false ceiling.

KI-04 S
Recommended

R-410A REFRIGERANT · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE · ON/OFF CONTACT

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Indoor unit model	KCOF-22 DN4.0	KCOF-36 DN4.0	KCOF-71 DN4.0
Power input; W	25	30	60
Cooling capacity rated; kW	2.2	3.6	7.1
Heating capacity rated; kW	2.6	4	8
Air flow; m^3/h	275 / 312 / 360 / 404 / 448 / 482 / 523	315 / 364 / 420 / 456 / 492 / 531 / 573	592 / 637 / 689 / 749 / 815 / 873 / 933
Sound pressure; dB(A)	30 / 31 / 32 / 34 / 35 / 36 / 37	34 / 35 / 35 / 36 / 37 / 38 / 39	37 / 38 / 39 / 41 / 42 / 43 / 44
Panel; Width / Height / Depth; mm	1180 / 25 / 465	1180 / 25 / 465	1350 / 25 / 505
Panel; Net weight; kg	3.5	3.5	4
Width / Height / Depth; mm	1054 / 153 / 425	1054 / 153 / 425	1275 / 189 / 450
Net weight; kg	11.8	12.3	17.6
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"

Cooling and heating capacity. Power input: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Shielded communication wiring: If these units are installed with systems that are not s6 series external units, then shielded communication wires will be necessary.
Compatible controllers: These units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.

Floor Standing Exposed/Concealed

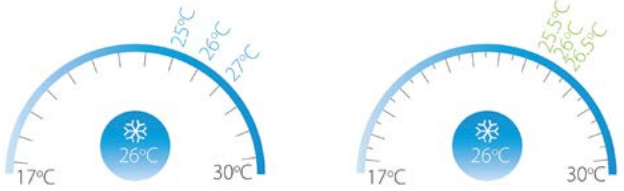
The streamlined design of this unit is the perfect solution for saving space as, thanks to its reduced depth, it enjoys flexible installation, from wall-mounted to floor standing, whether totally or partially recessed, thereby gracefully harmonising with the indoor design of the room.

Energy efficiency

They use DC fans that constantly adapt operation and consumption to the needs of the unit, seeking maximum energy efficiency at all times.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.



0.5°C/1°C Setting of set-point temperature

The set temperature can be adjusted in 0.5°C or 1°C steps, providing precise comfort control.

Adaptability thanks to high available pressure of 40 Pa

Available pressure of 40 Pa to enable recessing and the installation of a short duct. In that way the unit can fit invisibly within the space to be air conditioned.

KI-04 S
Recommended

R-410A REFRIGERANT | DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE | ON/OFF CONTACT

Floor Standing ONLY Concealed

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Indoor unit model	KSEF-22 DN4.1	KSEF-36 DN4.1	KSEF-56 DN4.1
Power input; W	35	41	47
Cooling capacity rated; kW	2.2	3.6	5.6
Heating capacity rated; kW	2.4	4	6.3
Air flow; m^3/h	430 / 441 / 452 / 464 / 475 / 486 / 498	407 / 424 / 441 / 458 / 474 / 491 / 508	653 / 680 / 706 / 732 / 759 / 785 / 811
Sound pressure; dB(A)	29 / 30 / 31 / 33 / 34 / 35 / 36	30 / 31 / 32 / 34 / 35 / 36 / 37	31 / 32 / 33 / 35 / 37 / 39 / 41
Width / Height / Depth; mm	1020 / 495 / 200	1020 / 495 / 200	1360 / 591 / 200
Net weight; kg	22.5	23.3	31.8
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"

Floor Standing Exposed/Concealed

Indoor unit model	KS(E)F-56 DN4.0 W	KS(E)F-71 DN4.0 W
Power input; W	88	110
Cooling capacity rated; kW	5.6	7.1
Heating capacity rated; kW	6.3	8
Air flow; m^3/h	830 / 886 / 925 / 970 / 1028 / 1094 / 1150	870 / 955 / 1033 / 1100 / 1205 / 1290 / 1380
Sound pressure; dB(A)	31 / 32 / 33 / 35 / 37 / 39 / 41	33 / 35 / 37 / 39 / 40 / 42 / 44
Width / Height / Depth; mm	1345 / 544 / 212	1345 / 544 / 212
Net weight; kg	30.5	30.5
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"

Cooling and heating capacity. Power input: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Shielded communication wiring: If these units are installed with systems that are not s6 series external units, then shielded communication wires will be necessary.
Compatible controllers: These units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.

Wall-mounted

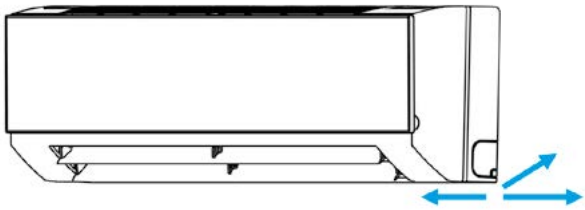
The wall-mounted units are outstanding due to their DC Inverter fans and the smart design of their panel. They include an LED display located at the centre of the unit that provide a modern design thanks to the most advanced technology in the market.

Energy efficiency

They use DC fans that constantly adapt operation and consumption to the needs of the unit, seeking maximum energy efficiency at all times.

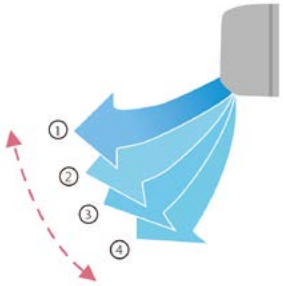
WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.



Installation flexibility

Although the piping is located on the right side of the machine, it can run out in three positions thanks to its design.



Greater comfort

This type of unit is capable of opening the vertical air flow louvre up to 90°, in addition to featuring the automatic swing function.

Control options

Although wireless controller is recommended for these units, there is the option to manage them via wire, thus increasing the possibilities to adapt to any installation.

KI-04 S
Recommended

R-410A REFRIGERANT | DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE | ON/OFF CONTACT

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Indoor unit model	KAYF-17 DN4.0	KAYF-22 DN4.0	KAYF-28 DN4.0	KAYF-36 DN4.0
Power input; W	28	28	28	30
Cooling capacity rated; kW	1.7	2.2	2.8	3.6
Heating capacity rated; kW	2.2	2.4	3.2	4
Air flow; m^3/h	356 / 368 / 378 / 385 / 393 / 402 / 411	356 / 368 / 380 / 393 / 402 / 411 / 422	316 / 338 / 353 / 370 / 386 / 402 / 417	488 / 515 / 544 / 573 / 591 / 628 / 656
Sound pressure; dB(A)	29 / 29 / 29 / 30 / 30 / 30 / 31	29 / 29 / 29 / 30 / 30 / 30 / 31	29 / 29 / 29 / 30 / 30 / 30 / 31	30 / 30 / 31 / 31 / 32 / 32 / 33
Width / Height / Depth; mm	835 / 280 / 203	835 / 280 / 203	835 / 280 / 203	990 / 315 / 223
Net weight; kg	8.4	8.4	9.5	11.4
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"

Indoor unit model	KAYF-45 DN4.0	KAYF-56 DN4.0	KAYF-80 DN4.0
Power input; W	40	45	55
Cooling capacity rated; kW	4.5	5.6	8
Heating capacity rated; kW	5	6.3	9
Air flow; m^3/h	424 / 450 / 478 / 507 / 535 / 563 / 594	547 / 578 / 613 / 648 / 685 / 713 / 747	809 / 875 / 940 / 1005 / 1065 / 1130 / 1195
Sound pressure; dB(A)	31 / 31 / 32 / 33 / 33 / 34 / 35	34 / 34 / 35 / 36 / 36 / 37 / 38	36 / 37 / 38 / 42 / 42 / 43 / 44
Width / Height / Depth; mm	990 / 315 / 223	990 / 315 / 223	1194 / 343 / 262
Net weight; kg	12.8	12.8	17
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"

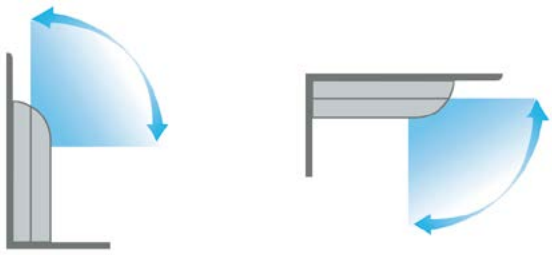
Cooling and heating capacity. Power input: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Shielded communication wiring: If these units are installed with systems that are not s6 series external units, then shielded communication wires will be necessary.
Compatible controllers: These units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.

Floor/Ceiling

Machine featuring flexible installation with DC Inverter motors, compact design, suitable for any space. As its name suggests, they can be installed on the ceiling horizontal position and on the floor in vertical position. This is possible due to the design of its condensation tray.

Capacity to adapt

As its name suggests, the adaptability of this indoor unit rests on the two possible types of installation. Thanks to its L-shaped condensation tray, it can be ceiling or floor-mounted.

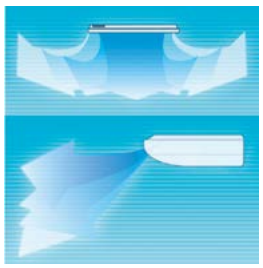


Energy efficiency

They use DC fans that constantly adapt operation and consumption to the needs of the unit, seeking maximum energy efficiency at all times.

WiFi

It is possible to control Kaysun units via a tablet or smartphone as an option.



Comfort

Air flow with less turbulence. Thanks to the multi-blade fan and the design of its louvers, the air flow is gentler and more comfortable.

Control options

Although wireless controller is recommended for these units, there is the option to manage them via wire, thus increasing the possibilities to adapt to any installation.

KI-04 S
Recommended

R-410A REFRIGERANT
DC INVERTER INTERNAL FAN
COMPATIBLE WITH AIRZONE
ON/OFF CONTACT

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Indoor unit model	KPCF-56 DN4.0 W	KPCF-90 DN4.0 W	KPCF-140 DN4.0 W
Power input; W	115	130	180
Cooling capacity rated; kW	5.6	9	14
Heating capacity rated; kW	6.3	10	15
Air flow; m^3/h	720 / 755 / 792 / 830 / 860 / 895 / 930	1050 / 1085 / 1130 / 1170 / 1210 / 1245 / 1280	1580 / 1620 / 1660 / 1700 / 1765 / 1830 / 1890
Sound pressure; dB(A)	38 / 38 / 39 / 41 / 41 / 42 / 43	40 / 41 / 42 / 43 / 43 / 44 / 45	42 / 43 / 44 / 45 / 45 / 46 / 47
Width / Height / Depth; mm	990 / 660 / 203	1280 / 660 / 203	1670 / 660 / 244
Net weight; kg	28	35	48
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"

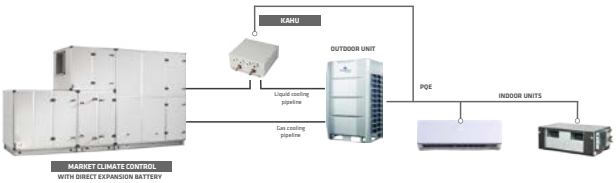
Cooling and heating capacity. Power input: Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Sound pressure: Measurement of the sound pressure is taken using a semi-anechoic chamber at a distance of 1 m from the machine at a height of 1.3 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Shielded communication wiring: If these units are installed with systems that are not s6 series external units, then shielded communication wires will be necessary.
Compatible controllers: These units can integrate one of the controllers from the table or the one recommended by Kaysun. For further information regarding compatibility, see the chapter on Controllers.

KAHU

The Kaysun Amazon range of indoor units includes the KAHU interface. This accessory allows an air conditioning unit with a direct expansion coil of up to 56 kW to be connected to Kaysun VRF systems. This will act as an additional indoor unit within the cooling circuit.

Full adaptability

KAHU features the option to add air conditioning units with a direct expansion coil to Kaysun Amazon 2-pipe VRF systems, and thus extend the adaptability of these units to the maximum number of installations possible. In addition, it is a very flexible system, as it allows us to add KAHU units in parallel, whether to control direct expansion exchangers with a cooling capacity of above 56 kW or to control several direct expansion coils in parallel within the same air conditioning unit.



Full kit

The accessory includes all the elements necessary for the installation. KCT-05 SR controller as standard, expansion valves, temperature sensors, wires and electrical panel.

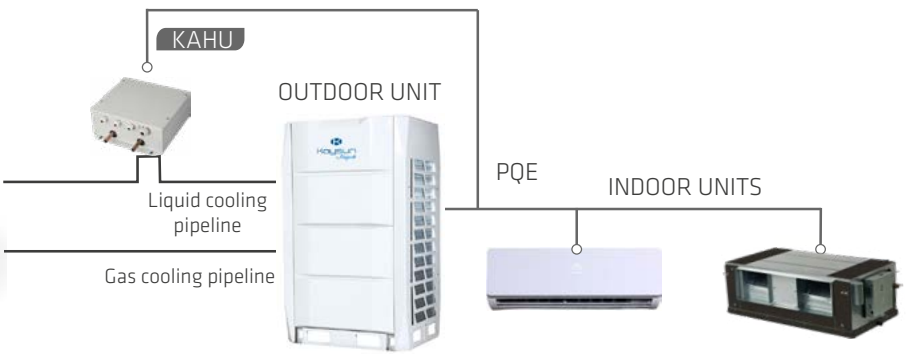
s6 PROTOCOL

Compatible with s6 communication protocol

The compatibility of the accessory extends the entire range of Kaysun s6 outdoor units.

Installation Example:

MARKET *CLIMATE CONTROL*
With direct expansion battery



KCT-03 SR
Standard

R-410A
R-410A REFRIGERANT

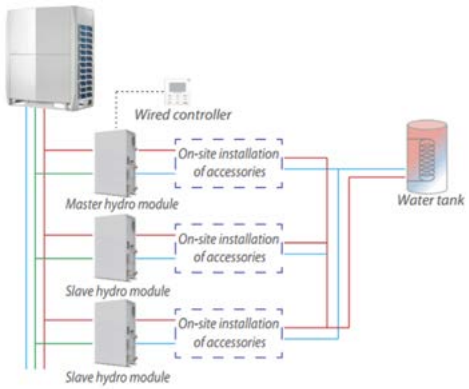
FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Model	KAHU-90.4	KAHU-200.4	KAHU-360.4	KAHU-560.4
Cooling capacity rated; kW	2.2 / 9	9 / 20	20 / 36	36 /56
Width / Height / Depth; mm	393 / 341 / 125	393 / 341 / 125	393 / 341 / 125	393 / 341 / 125
Net weight; kg	5.6	5.6	5.9	6
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power wiring; mm^2	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5	(2+T)x2,5
Shielded communication wiring; mm^2	3x0,75	3x0,75	3x0,75	3x0,75
Type refrigerant	R-410A	R-410A	R-410A	R-410A
Liquid / Gas pipe diameter; inch	3/8" / 3/8"	3/8" / 3/8"	1/2" / 1/2"	5/8" / 5/8"

Cooling capacity: Capacity can be adjusted via DIP switches on electronic board. Rated conditions: Cooling 27°C BS/19°C BH indoor, 35°C BS outdoor. Heating 20°C BS indoor, 7°C BS/6°C BH outdoor. Piping length 7.5 m, Height 0 m.
Power wiring: The power wiring is up to 10 m approximately. It must be calculated more precisely for each installation.
Compatible controllers: Connection to a centralised controller, management system or integraiton system, must be done via the outdoor unit. There are options for the various outdoor unit models.

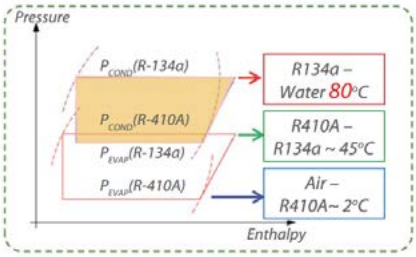
High Temperature Hydraulic Module

Within the Kaysun Amazon indoor unit range is an indoor unit capable of generating hot water with discharge temperatures of up to 80°C. This generated hot water can be used as domestic hot water or in underfloor heating.



Up to 10 modules per system

The system allows the connection of up to 10 units, through the master-slave connection, with powers ranging from 14 kW to 140 kW. Thus it is a versatile solution for homes or small offices, hotels, gyms or residential buildings.



High temperatures of up to 80°C

The system allows the connection of up to 10 units, through the master-slave connection, with powers ranging from 14 kW to 140 kW. Thus it is a versatile solution for homes or small offices, hotels, gyms or residential buildings.

Wired controller as standard

These units include wired controller as standard. Furthermore, the installation can be lengthened as necessary.

Compatible with Smart Grid

Compatible with Smart Grid as standard, in order to provide the best possible combination of comfort, economy and durability.

KCT-03 SRPS-KWF
Included controller

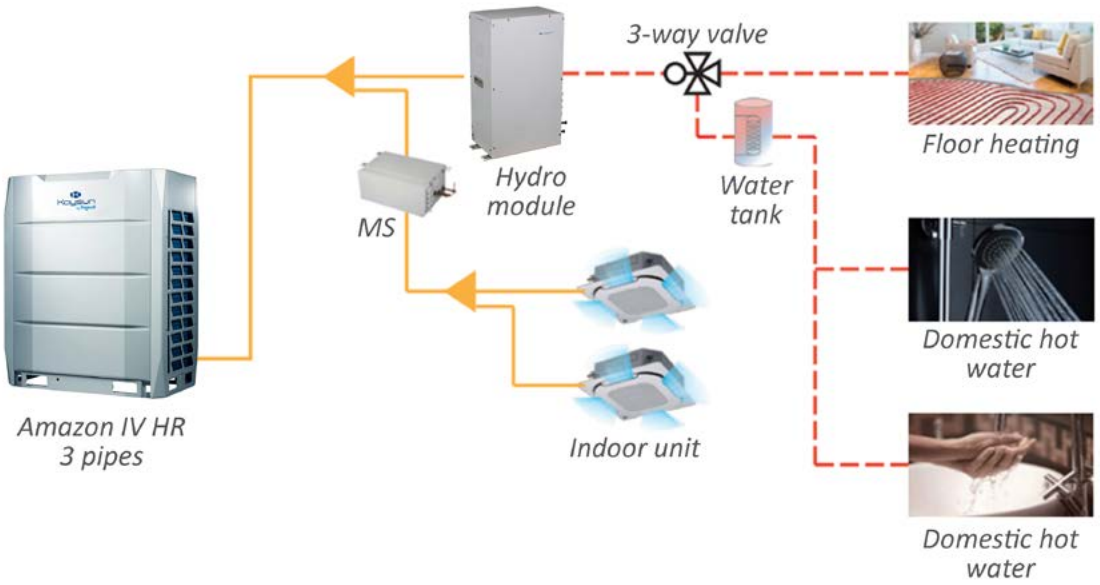
R-134A REFRIGERANT · R-410A REFRIGERANT · DOMESTIC HOT WATER · DC INVERTER COMPRESSOR · ON/OFF CONTACT

FOR "COMPATIBLE CONTROLS AND ACCESSORIES" SEE PAGE 190

Model	KWF-140 HT ACS
Power input; W	2984
Heating capacity rated; kW	14
Width / Height / Depth; mm	450 / 795 / 300
Net weight; kg	43
Power supply; V/ph/Hz	220-240/1/50
Power wiring; mm^2	(2+T)x2,5
Shielded communication wiring; mm^2	3x1,5
Liquid / Gas pipe diameter; inch	3/8" / 1/2"
Outdoor ambient temperature for heating min. / max.; °C	-20 / 30
Outdoor ambient temperature for DHW min. / max.; °C	-20 / 43

Heating capacity: Rated conditions: Outdoor air 7°C BS/6°C BH. Water entering at 40°C, water leaving at 45°C.

Installation Example:



Compatible controls and accessories

- ✔ Included as standard
- ● Recommended
- ○ Optional
- ⊗ Not supported

For more information see Controllers section.



		Ducts	High Pressure Ducts	Cassette 600x600
Wireless controller		○ KI-04 S	○ KI-04 S	● KI-04 S
Wired controller		● KCT-03 SR ○ KCT-03 SRPS (A) ○ KCT-02.1 SR ○ KC-02.1 H	● KCT-03 SR ○ KCT-03 SRPS (A) ○ KCT-02.1 SR ○ KC-02.1 H	○ KCT-03 SR ○ KCT-03 SRPS (A)
WiFi	K01-WIFI	○	○	○
BMS	Modbus	Check compatibility in the controls section, it depends on the combination between the indoor and the generation of the outdoor unit.		
	Bacnet	Check compatibility in the controls section, it depends on the combination between the indoor and the generation of the outdoor unit.		
	KNX	Check compatibility in the controls section, it depends on the combination between the indoor and the generation of the outdoor unit.		
	Lonworks	Check compatibility in the controls section, it depends on the combination between the indoor and the generation of the outdoor unit.		
Centralised control	Touch Centralised Control	Check compatibility in the controls section, it depends on the combination between the indoor and the generation of the outdoor unit.		
	Web Centralised Control	Check compatibility in the controls section, it depends on the combination between the indoor and the generation of the outdoor unit.		

 Cassette 840x840	 1-way Cassette	 Console	 Wall	 Floor/Ceiling	 HT Module
● KI-04 S	● KI-04 S	● KI-04 S	● KI-04 S	● KI-04 S	⊗
○ KCT-03 SR ○ KCT-03 SRPS (A)	○ KCT-03 SR ○ KCT-03 SRPS (A)	○ KCT-03 SR ○ KCT-03 SRPS (A)	○ KCT-03 SR ○ KCT-03 SRPS (A)	○ KCT-03 SR ○ KCT-03 SRPS (A)	✔ KCT-03 SRPS-KWF
○	○	○	○	○	⊗
Check compatibility in the controls section, it depends on the combination between the indoor and the generation of the outdoor unit.					
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Check compatibility in the controls section, it depends on the combination between the indoor and the generation of the outdoor unit.					

References

Key Installations

The **Amazon range** offers the most versatile range of capacities and combinable indoor and outdoor units. **Amazon** units have the highest technology for large facilities, always respecting the environment.

BI4ALL
Offices

Location: Lisbon (Portugal)
Initial situation: New construction
Units installed: AMAZON VRF
Capacity: 146,25 kW

Other customers that have trusted in Kaysun

HOTELS
- Ciudad de Alcañiz Hotel (Teruel)
- Eritaña Civil Guard Headquarters (Seville)
- Dolce Fregate Hotel (Provence)
- Ibis Hotel (Seville)

PUBLIC BUILDINGS
- Óvalo Centro Social Services building (Zaragoza)
- Deputy Major's Office (Málaga)
- Reus Town Council (Tarragona)
- ADIF Railway Infrastructures Manager Offices (Asturias)
- Department of Agriculture (Badajoz)

SCHOOLS AND UNIVERSITITES
- San Luis School (Minorca)
- Camino de Gelves Nursery School (Seville)

HOSPITALS, HEALTH CLINICS AND CENTRES
- Adharaz School (Seville)
- Altasierra School (Seville)
- San Francisco de Paula School (Seville)
- Calasancio School (Córdoba)
- Pablo de Olavide University (Seville)
- Guijuelo Nursery School (Salamanca)
- University School of Technical Industrial Engineering (Barcelona)
- Santa Maria del Pilar School (Madrid)
- Sagrado Corazón Health Clinic (Seville)

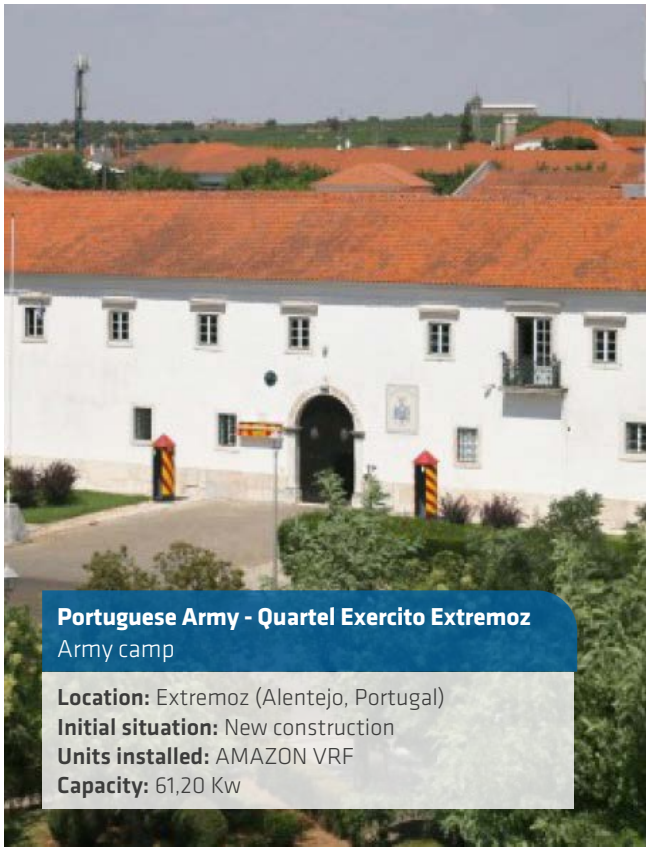
RESIDENCES
- Palacio de la calle Mayor Residence (Madrid)

LEISURE CENTRES
- Sant Josep Sports Centre (Barcelona)
- Amezketa Library (Guipúzcoa)
- Requejada Sports Centre (Cantabria)
- School of Music (Jerez de la Frontera)
- Conferences and Exhibition Centre (Madrid)
- Pinto Library (Madrid)

BUSINESS CENTRES AND OFFICES
- Mercedes Authorised Dealer (Barcelona)
- Caritas charitable organisation (Barcelona)
- ThyssenKrupp Elevators (Barcelona)
- Aceites Abril S.L. (Ourense)
- Zara Home (Vitoria)
- Aki (Granollers)

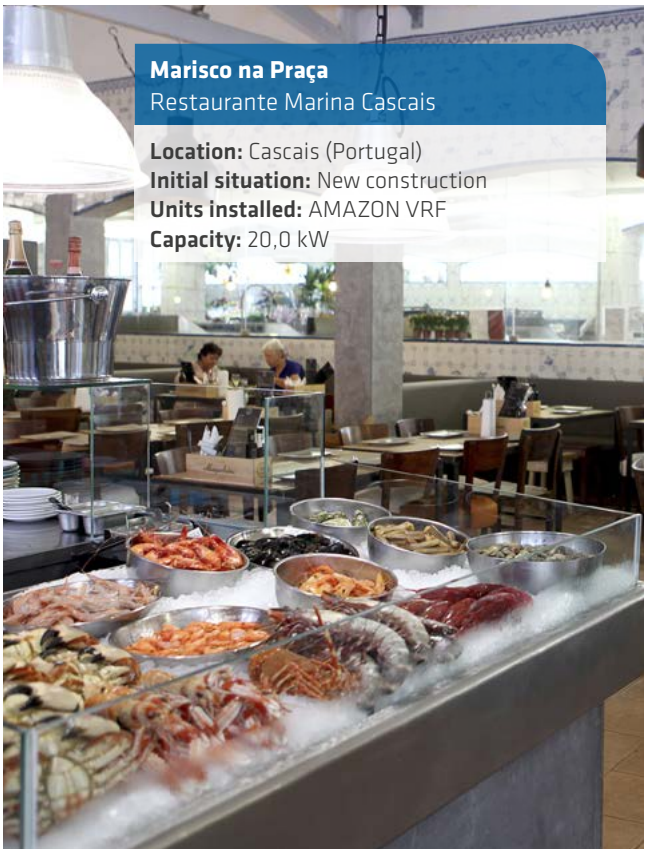
CET SUD Bucarest
Public building

Location: Bucarest (Romania)
Units installed: Amazon high capacity ducts and cassettes
Capacity: 554 kW



Portuguese Army - Quartel Exercito Extremoz
Army camp

Location: Extremoz (Alentejo, Portugal)
Initial situation: New construction
Units installed: AMAZON VRF
Capacity: 61,20 Kw



Marisco na Praça
Restaurante Marina Cascais

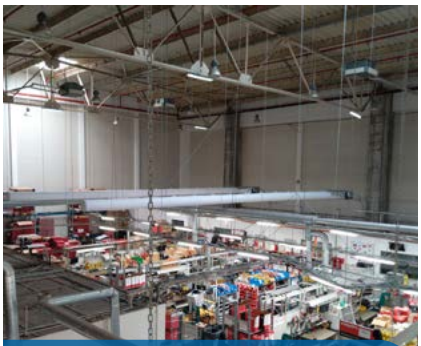
Location: Cascais (Portugal)
Initial situation: New construction
Units installed: AMAZON VRF
Capacity: 20,0 kW

Diesel Shop
Fashion Store

Location: Lisbon (Portugal)
Initial situation: Rehabilitation
Units installed: AMAZON VRF
Capacity: 40 kW

Lefties
Commercial Building

Location: France and Belgium
Units installed: Amazon 2 pipes
Capacity: 50 kW



Service Hilti Space
Logistic Centre

Location: Bucarest (Romania)
Units installed: VRF
Capacity: 61 kW

Dolce Fregate
Hotel

Location: Provence (France)
Units installed: Amazon 2 pipes
Capacity: 160 kW

Vidigueira
Wine Cellar

Location: Vidigueira (Portugal)
Units installed: K2F-615DN4S
Capacity: 61.5kW

Instituto Politécnico do Porto
Polytechnic College

Location: Porto (Portugal)
Units installed: 2x K2F-450DN3
Capacity: 90kW

Cours Bastide
School

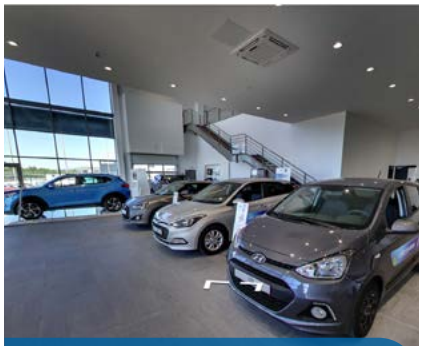
Location: Marseille (France)

AMD Decolletage
Automotive Components Factory

Location: Marnaz (France)
Units installed: K2F-615DN4S
Capacity: 61.5kW

Dublin
Hotel

Location: Dublin (Ireland)
Units installed: Amazon Unitario



Hyundai – Central Motor
Dealership

Location: Lyon (France)

All Suites
Apart Hotel

Location: Pessac (France)
Units installed: 3 pipes

Mercure Hotels
Hotel

Location: Ibiza (Spain)
Initial situation: Renovation
Units installed: Minichillers
Capacity: 251 kW

Palau de la Virreina
Public Building

Location: Barcelona (Spain)
Initial situation: Renovation
Units installed: Amazon VRF
Capacity: 45kW (2 uds)

Cepsa Laboratories
Business Center

Location: Huelva (Spain)
Units installed: Amazon 2 pipes
Capacity: 30 kW

Casa Amatller
Museum

Location: Barcelona (Spain)
Capacity: 2.8 kW

Metropol Parasol "Las Setas"
Public Building

Location: Seville (Spain)
Units installed: Amazon 2 pipes
Capacity: 200 kW

Cambrils Park Resort
Camping Resort

Location: Cambrils (Tarragona, Spain)
Units installed: Amazon 3 pipes
Capacity: 2000 kW

Castillo de Arteaga
Hotel

Location: Arteaga (Vizcaya, Spain)
Units installed: Amazon 3 pipes
Capacity: 1000 kW

Nexus

Chillers Range

Presentation of the range
Nexus Chillers Range

Minichillers Full DC Inverter R-32

Super-compact units featuring high seasonal efficiency, with rotary Inverter compressor and hydraulic kit incorporated. Easy to install and with advanced control for the management of up to 6 units in cascade.

Power kW (Single-phase) 5 7 10 12

Power kW (Three-phase) 12 14 16

SMART GRID READY · R-32 REFRIGERANT · DC INVERTER COMPRESSOR · HYDRAULIC KIT · Wi-Fi · MODBUS · MODULAR

Aquantia KHPS-MO PRO HP

Compact, silent heat pumps with front discharge. Designed for air conditioning and domestic hot water production. Full Inverter and hydraulic kit incorporated. Easy to install and with advanced control for the management of up to 6 units in cascade.

Power kW 18 22 26 30 Combinable up to 6 modules

SMART GRID READY · R-32 REFRIGERANT · DC INVERTER COMPRESSOR · HYDRAULIC KIT · Wi-Fi · MODBUS · MODULAR

Modular Full DC Inverter Chillers

The modular 75 kW to 180 kW chillers are fitted with Full DC Inverter and R-32 technology. Prepared for domestic hot water production with water at 55°C.

Power kW (75) (90) (140) (180) Combinable up to 4 modules

R-32 REFRIGERANT · DOMESTIC HOT WATER · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · MODBUS · ON/OFF CONTACT · MODULAR

Modular Full DC Inverter Heat pump

Compact reversible air-to-water heat pumps for space heating and cooling and domestic hot water production. Ideal for new buildings or replacement of existing heating systems, also in combination with an existing heat source

Power kW (65) (110) Combinable up to 4 modules

R-32 REFRIGERANT · DOMESTIC HOT WATER · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · MODBUS · ON/OFF CONTACT · MODULAR

Nexus
Chillers Range

The Kaysun range of chillers has been designed with the aim of adapting installations of any nature, as it includes a wide range of units in order to provide the best possible solution for each installation. From Minichiller to the huge versatility of modular chillers. Kaysun is the solution for climate control in spaces such as residences, hotels, offices, stores and many others. All units in this range use environmentally and ozone-friendly refrigerants.

Minichillers: For small water installations

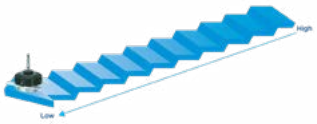
The Minichiller with rotary DC Inverter compressor from 5 to 16 kW have a SEER of up to 5.19 and a SCOP of up to 5.18. These units, with hydraulic kit incorporated, are a very efficient option for domestic installations and small water installations. With a compact design that facilitates access to components and simplifies installation and maintenance, it features an integrated control panel on its body.

Modular Chillers: the perfect solution for any water air conditioning project

Kaysun offers a range of highly versatile modular units starting with its basic models which can be combined with each other. They allow maximum flexibility in design and installation thanks to the possibility of adding or combining chillers, and for that reason these units can adapt to the needs of any customer or installation. The range allows the combination of up to four modules and achieves capacities of up to 560 kW with the Full DC equipment. In this way a large installation can be staggered, optimising and spreading the charge between various units.

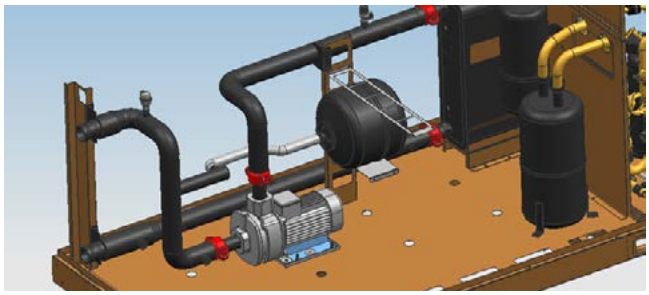
DC Inverter compressors

The Kaysun Full DC Inverter chillers are equipped with latest-generation DC Inverter compressors. Their innovative design and numerous high-performance technological features achieve a reduction in consumption of some 25%.



DC Inverter fans

On the DC models, the speed of the energy-efficient fan adjusts in response to the system charge, which allows a reduction in energy consumption of around 30% .



Version with Hydraulic kit incorporated

Most of Kaysun's Chillers have two options, one without hydraulic kit for Modular installation, and one including the hydraulic kit, which facilitates and accelerates design and installation, while also saving space.

Full range with R-32

Frigicoll offers a wide range of Inverters with the new R-32 gas, with low GWP, in compliance with the ErP LOT 21 standard.

Wide range of controls

Kaysun provides its chillers with a control as standard and, depending on the range, with various options for controls and integration within BMS.

Advanced modularity control

The chiller range allows up to 4 units to be connected hydraulically and a system with a maximum of 16 units to be managed; in that way maximum efficiency is achieved with partial charges and the reliability of the installation is increased.

Minichillers Full DC Inverter R-32

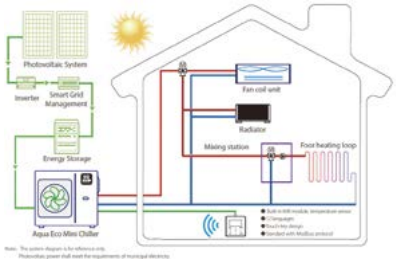
The Kaysun Minichiller units are ideal for domestic applications or small-scale commercial applications where hot and cold water is required. The units are silent, compact and equipped with Inverter motors in order to achieve significant energy savings and improved comfort. They have a hydraulic kit incorporated as standard.

Smart Home and BMS

The wired controller included allows the user to enjoy a pleasant, intuitive experience capable of satisfying zoning needs of any nature. The possibility to control and monitor an installation using the Comfort Home app via WiFi and its integration with Amazon Alexa and Google Assistant makes the user experience even more enjoyable and, above all, efficient. Direct integration with ModBus RTU systems is also possible.

DC Compressor

DC Fan



Full DC Inverter

Kaysun takes care of every detail regarding all components, in order to obtain a more efficient unit. The DC Inverter compressor regulates the capacity of the unit at all times and allows energy saving, while providing greater comfort. The DC fans stand out for their low consumption, adapting speed with precision at all times.

Hydraulic kit incorporated

The Kaysun Minichiller range features a full hydraulic kit consisting of a water pump, plate heat exchanger, expansion vessel, high and low pressure gauges, differential pressure valve, safety valve and automatic air purge valve.

R-32

The new gas R-32 reduces the necessary charge by 30%, has no effect on the ozone layer, and reduces its global warming impact by 70% in relation to its predecessor.

Standard controller

In addition to the voltage-free on/off, cold/heat, additional pump and alarms, it has a control panel built into the body, with:

- On/Off
- Mode selection
- Temperature setting
- Timer
- Diagnosis

SMART GRID READY · R-32 REFRIGERANT · DC INVERTER COMPRESSOR · HYDRAULIC KIT · Wi-Fi · MODBUS · MODULAR

KCCHT-04
Standard

Basic modules

Model	KEM-05 DVR	KEM-07 DVR	KEM-09 DVR	KEM-12 DVR	KEM-14 DVR	KEM-16 DVR
Cooling capacity rated; kW	5.5	7.4	9	11.6	13.4	14
EER	3.25	3.15	2.90	3.10	2.93	2.90
SEER	5.09	5.19	5.08	5.07	5.09	5.11
Heating capacity rated; kW	6.6	8.5	10.1	12.5	14.5	16.2
Heating capacity rated at -7°C; kW	6.6	7.6	8.3	11.2	12.4	13.3
COP	4.00	3.80	3.65	3.70	3.55	3.45
COP at -7°C	3.12	3.04	2.97	2.73	2.63	2.63
SCOP average zone, Water 35°C - Energy class	5.12 - A+++	5.18 - A+++	5.12 - A+++	5.08 - A+++	4.88 - A+++	4.84 - A+++
Compressor type	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
No. compressor	1	1	1	1	1	1
Type refrigerant	R-32	R-32	R-32	R-32	R-32	R-32
Refrigerant charge; kg	1.3	1.3	1.3	1.8	1.8	1.8
No. fans	1	1	1	1	1	1
Air flow,; m^3/h	3900	4500	4500	5200	5200	5200
Sound pressure; dB(A)	64	66	68	69	71	71
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	1040 / 865 / 410	1040 / 865 / 410	1040 / 865 / 410	1040 / 865 / 410	1040 / 865 / 410	1040 / 865 / 410
Net weight; kg	87	87	87	106	106	106
Water flow rated; m^3/h	0.9	1.3	1.5	2	2.2	2.4
Water pipe connections; inch	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Volume of expansion tank; l	5	5	5	5	5	5
Available pressure; kPa	90	90	90	90	90	90

Basic modules

Model	KEM-12 DTR	KEM-14 DTR	KEM-16 DTR
Cooling capacity rated; kW	11.6	13.4	14
EER	3.10	2.93	2.90
SEER	5.11	5.12	5.14
Heating capacity rated; kW	12.5	14.5	16.2
Heating capacity rated at -7°C; kW	11.2	12.4	13.3
COP	3.70	3.55	3.45
COP at -7°C	2.73	-	-
SCOP average zone, Water 35°C - Energy class	5.08 - A+++	4.88 - A+++	4.84 - A+++
Compressor type	Rotary Inverter	Rotary Inverter	Rotary Inverter
No. compressor	1	1	1
Type refrigerant	R-32	R-32	R-32
Refrigerant charge; kg	1.8	1.8	1.8
No. fans	1	1	1
Air flow,; m^3/h	5200	5200	5200
Sound pressure; dB(A)	74	74	74
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Width / Height / Depth; mm	1040 / 865 / 410	1040 / 865 / 410	1040 / 865 / 410
Net weight; kg	120	120	120
Water flow rated; m^3/h	2	2.2	2.4
Water pipe connections; inch	1 1/4"	1 1/4"	1 1/4"
Volume of expansion tank; l	5	5	5
Available pressure; kPa	90	90	90

Accessories	Model
Buffer tank/hydraulic shut-off nozzle	
Expansion vessels - primary	HWB8LX
Expansion vessels - primary	HWB12LX
Expansion vessels - primary	HWB18LX

Check accessories in Aquantia's range

The data in heating mode at -7°C are calculated working with water at +35°C.
Cooling capacity. Cooling input. EER: Data calculated in compliance with EN 14511:2018 Standard, with reference to the following conditions: indoor heat exchanger water temperature = 12/7°C; outdoor heat exchanger inlet air temperature = 35°C.
Heating capacity. Heating input. COP: Data calculated in compliance with EN 14511:2018 Standard, with reference to the following conditions: indoor heat exchanger water temperature = 40/45°C; outdoor heat exchanger inlet air temperature = 7°C DB/6°C WB.
SEER. SCOP: Data calculated in compliance with EN 14825:2016 Standard. The product meets the ErP (Energy Related Products) European Directive, which include the (EU) Commission Delegated Regulation No. 811/2013 (rated thermal input ≤ 70 kW under specified reference conditions) and (EU) Commission Delegated Regulation No. 813/2013 (rated thermal input≤ 400 kW under specified reference conditions).
Sound pressure: Sound levels refer to the unit under full charge. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air. The measurements are taken in accordance with UNI EN ISO 9614-2 standard, respecting the conditions imposed by EUROVENT 8/1 certification. Data under the following conditions: indoor heat exchanger water temperature = 12/7°C; outdoor air temperature = 35°C.

Aquantia KHPS-MO PRO HP

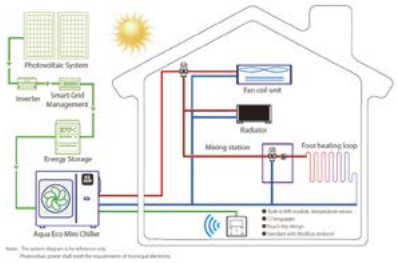
KHPS-MO PRO HP is the most compact solution in the range, as it only comprises a single outdoor unit, a wired remote controller and a domestic hot water tank (optional). It is the most suitable solution for installations where there are more than 5-6 m between the outdoor unit and the domestic hot water tank. KHPS-MO PRO HP can be controlled via the Kaysun mobile app.

Full DC Inverter

Kaysun takes care of every detail regarding all components, in order to obtain a more efficient unit. The DC Inverter compressor regulates the capacity of the unit at all times and allows energy saving, while providing greater comfort. The DC fans stand out for their low consumption, adapting speed with precision at all times.

DC Compressor

DC Fan



Hydraulic kit incorporated

The Kaysun KPHS-MO PRO HP range features a full hydraulic kit consisting of a water pump, plate heat exchanger, expansion vessel, high and low pressure gauges, differential pressure valve, safety valve and automatic air purge valve.

R-32

The new gas R-32 reduces the necessary charge by 30%, has no effect on the ozone layer, and reduces its global warming impact by 70% in relation to its predecessor.

Standard controller

In addition to the voltage-free on/off, cold/heat, additional pump and alarms, it has a control panel built into the body, with:

- On/Off
- Mode selection
- Temperature setting
- Timer
- Diagnosis

Smart, flexible system

The system self-regulates based on changes in outdoor temperature and the energy requirements of the installation or home in order to provide the optimum results at all times.

KCTAQ-02
Standard

SMART GRID READY | R-32 REFRIGERANT | DC INVERTER COMPRESSOR | HYDRAULIC KIT | Wi-Fi | MODBUS | MODULAR

Basic modules

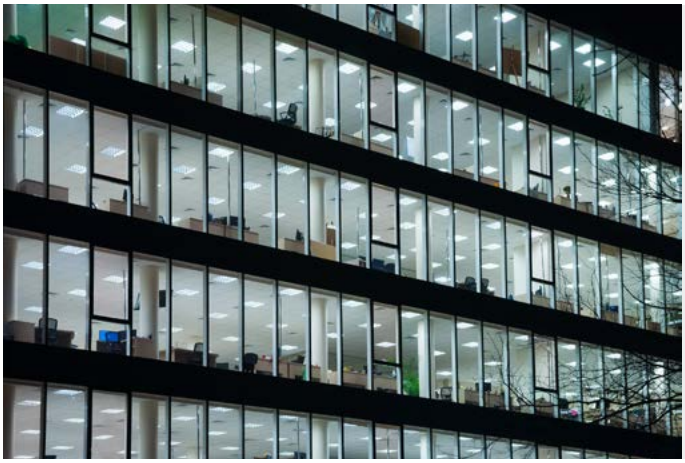
Set model	KHPS-MO 18 PRO HP	KHPS-MO 22 PRO HP	KHPS-MO 26 PRO HP	KHPS-MO 30 PRO HP
Cooling capacity rated; kW	17	21	26	29.5
EER	3.05	2.95	2.70	2.54
SEER	4.70	4.70	4.66	4.49
Heating capacity rated; kW	18	22	26	30
Heating capacity rated at -7°C; kW	19.8	21.3	23.5	23.3
COP	3.50	3.40	3.10	2.90
COP at -7°C	2.37	2.45	2.52	2.34
SCOP average zone, Water 35°C - Energy class	4.59 - A+++	4.53 - A+++	4.50 - A+++	4.19 - A++
Compressor type	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
No. compressor	1	1	1	1
Type refrigerant	R-32	R-32	R-32	R-32
Refrigerant charge; kg	5	5	5	5
No. fans	2	2	2	2
Air flow,; m^3/h	10650	10650	11200	11200
Sound pressure; dB(A)	55	58	60	62
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Width / Height / Depth; mm	1129 / 1558 / 440	1129 / 1558 / 440	1129 / 1558 / 440	1129 / 1558 / 440
Net weight; kg	177	177	177	177
Water flow rated; m^3/h	2.9	3.6	3.8	4
Water pipe connections; inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Volume of expansion tank; l	8	8	8	8
Available pressure; kPa	102	94.6	78.8	59.4

Accessories	Model
Buffer tank/hydraulic shut-off nozzle	
Expansion vessels - primary	HWB8LX
Expansion vessels - primary	HWB12LX
Expansion vessels - primary	HWB18LX

Check accessories in Aquantia's range

The data in heating mode at -7°C are calculated working with water at +35°C.
Cooling capacity. Cooling input. EER: Data calculated in compliance with EN 14511:2018 Standard, with reference to the following conditions: indoor heat exchanger water temperature = 12/7°C; outdoor heat exchanger inlet air temperature = 35°C.
Heating capacity. Heating input. COP: Data calculated in compliance with EN 14511:2018 Standard, with reference to the following conditions: indoor heat exchanger water temperature = 40/45°C; outdoor heat exchanger inlet air temperature = 7°C DB/6°C WB.
SEER. SCOP: Data calculated in compliance with EN 14825:2016 Standard. The product meets the ErP (Energy Related Products) European Directive, which include the (EU) Commission Delegated Regulation No. 811/2013 (rated thermal input ≤ 70 kW under specified reference conditions) and (EU) Commission Delegated Regulation No. 813/2013 (rated thermal input≤ 400 kW under specified reference conditions).
Sound pressure: Sound levels refer to the unit under full charge. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air. The measurements are taken in accordance with UNI EN ISO 9614-2 standard, respecting the conditions imposed by EUROVENT 8/1 certification. Data under the following conditions: indoor heat exchanger water temperature = 12/7°C; outdoor air temperature = 35°C.
NOTE: Combination units.

Modular Full DC Inverter Chillers



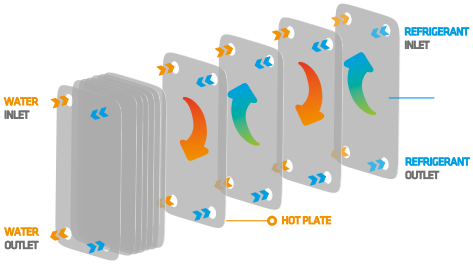
The second part of the Kaysun Full DC Inverter chiller range is available in modules from 75 to 180 kW. With brushless Full DC Inverter compressors that provide a high degree of stability and great energy efficiency. The units are very compact and are designed to speed up maintenance. Up to 4 modules can be combined, with a combined capacity of 360 kW.

High-efficiency Scroll DC Inverter compressor

The design of these machines includes high-efficiency Scroll DC Inverter compressors, seeking maximum efficiency for the unit.

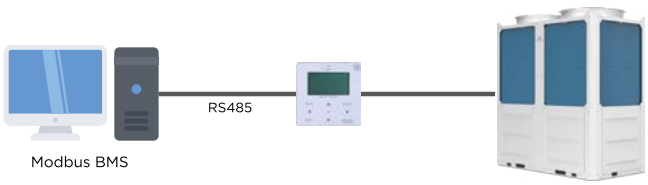
Full DC fan

The speed of the fan adjusts in response to the system charge, which allows a reduction in energy consumption of around 30%.



High-efficiency plate heat exchanger

The Kaysun heat exchanger fully optimises the heat transfer area between water and refrigerant.



Control with Modbus gateway

Touch controller via wiring with Modbus communication protocol included as standard, together with voltage-free contacts for alarms and remote controller.

Compact, modular design

The new design allows the units to be located in small spaces and the power to be shared over modules in order to facilitate installation.

Domestic hot water production

The new electronics allows domestic hot water to be produced as a priority with an optional 3-way valve, discharging water at 55°C to the installation.

KCCHT-06
MODBUS
Standard

R-32 REFRIGERANT · DOMESTIC HOT WATER · DC INVERTER COMPRESSOR · DC INVERTER EXTERNAL FAN · MODBUS · ON/OFF CONTACT · MODULAR

Basic modules

Model	KEM-75 DRS5	KEM-90 DRS5	KEM-140 DRS5	KEM-180 DRS5
Cooling capacity rated; kW	70	82	130	164
EER	2.61	2.95	2.57	2.93
SEER	4.45	4.58	4.30	4.41
Heating capacity rated; kW	75	90	138	180
Heating capacity rated at -7°C; kW	47.8	70.2	92.2	147
COP	3.16	3.20	3.10	3.16
COP at -7°C	2.76	2.68	2.54	2.79
SCOP average zone, Water 35°C - Energy class	4.05 - A++	3.97 - A++	4.05 - A++	3.80 - A+
Compressor type	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter
No. compressor	2	2	2	4
Type refrigerant	R-32	R-32	R-32	R-32
Refrigerant charge; kg	9	11.5	11.5	11,5 + 11,5
No. fans	2	2	2	4
Air flow,; m^3/h	28500	35000	50000	70000
Sound pressure; dB(A)	65	65	67	70
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Width / Height / Depth; mm	960 / 1770 / 2000	1135 / 2315 / 2220	1135 / 2300 / 2220	2752 / 2413 / 2220
Net weight; kg	440	635	670	1400
Water flow rated; m^3/h	13	15	24	31
Water pipe connections; inch	2"	2"	2 1/2"	3"

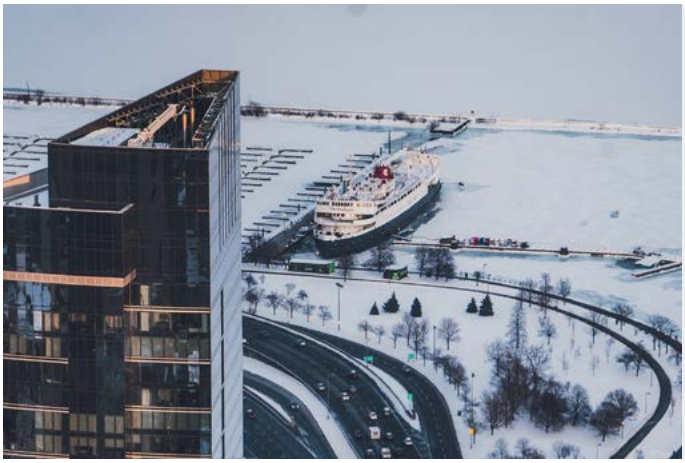
Basic modules with hydraulic kit

Model	KEM-75 DRS5 KH*	KEM-90 DRS5 KH*	KEM-140 DRS5 KH*	KEM-180 DRS5 KH*
Volume of expansion tank; l	12	12	24	12+12
Available pressure; kPa	100	150	80	150

Accessories	Model
3-way valve ON/OFF for DHW	3ACS
Hydraulic flanges kit for 75-90 kW Full DC Chillers	Kit victaulic 60-65-75-90
Hydraulic flanges kit for 140 kW Full DC Chillers	Kit victaulic 110-140
Hydraulic flanges kit for 180 kW Full DC Chillers	Kit victaulic 180

The data in heating mode at -7°C are calculated working with water at +35°C.
Cooling capacity. Cooling input. EER: Data calculated in compliance with EN 14511:2018 Standard, with reference to the following conditions: indoor heat exchanger water temperature = 12/7°C; outdoor heat exchanger inlet air temperature = 35°C.
Heating capacity. Heating input. COP: Data calculated in compliance with EN 14511:2018 Standard, with reference to the following conditions: indoor heat exchanger water temperature = 40/45°C; outdoor heat exchanger inlet air temperature = 7°C DB/6°C WB.
SEER. SCOP: Data calculated in compliance with EN 14825:2016 Standard. The product meets the ErP (Energy Related Products) European Directive, which include the (EU) Commission Delegated Regulation No. 811/2013 (rated thermal input ≤ 70 kW under specified reference conditions) and (EU) Commission Delegated Regulation No. 813/2013 (rated thermal input ≤ 400 kW under specified reference conditions).
Sound pressure: Sound levels refer to the unit under full charge. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air. The measurements are taken in accordance with UNI EN ISO 9614-2 standard, respecting the conditions imposed by EUROVENT 8/1 certification. Data under the following conditions: indoor heat exchanger water temperature = 12/7°C; outdoor air temperature. = 35°C.
Supplementary charge: For units with R-32 gas and a charge > 11.5 kg per circuit, the remaining charge must be applied on site.
KEM-180 DRS5 available from the 2nd half of 2022.

Modular Full DC Inverter Heat pump



NEW

Compact reversible air-to-water heat pumps for space heating and cooling and domestic hot water production. Ideal for new buildings or replacement of existing heating systems, also in combination with an existing heat source.

EVI system

EVI technology reinjects gas into the compressor in a more efficient way, allowing higher temperatures to be reached. This cold gas injection technology allows system water to be heated up to 65°C with the same compressor output.

Eco-friendly

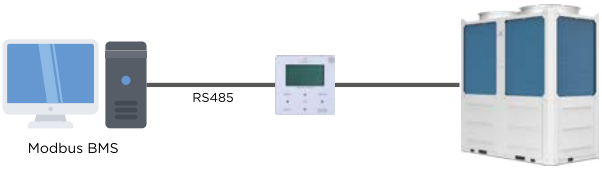
The heat pumps use environmentally friendly R32 refrigerant, with a low global warming potential (GWP=675) in accordance with the European F-Gas Directive, which aims to gradually reduce the use of greenhouse gases.

High water temperature

Water temperature for central heating and DHW up to 65°C using external inverter pump.

Silent mode

The design of the fans and encapsulation of the compressors together with an advanced control offer very low sound levels.



Option to connect multiple devices

Possibility of cascading up to 16 heat pumps and controlling up to 256 heat pumps via MODBUS.

Wide range of operation

Thanks to modern technology, heat pumps operate over a very wide range of outdoor temperatures [heating mode -25°C ÷ +43°C] and achieve high temperature parameters for the heating system or domestic hot water.

KCCHT-07
MODBUS
Standard

R-32 REFRIGERANT | DOMESTIC HOT WATER | DC INVERTER COMPRESSOR | DC INVERTER EXTERNAL FAN | MODBUS | ON/OFF CONTACT | MODULAR

Basic modules

Model	KEM-HT-65 DRS5	KEM-HT-110 DRS5
Cooling capacity rated; kW	57	100
Cooling input rated; kW	19.0	32.7
EER	3.00	3.05
SEER	5.00	4.80
Heating capacity rated; kW	65	110
Heating input rated; kW	18.3	29.9
COP	3.55	3.68
SCOP average zone, Water 35°C - Energy class	4.50 - A+++	4.25 - A++
Compressor type	EVI Srcoll Inverter	EVI Srcoll Inverter
No. compressor	1	2
Type refrigerant	R-32	R-32
Refrigerant charge; kg	9	11,5 / 4,0
No. fans	2	2
Air flow,; m^3/h	22000	32500
Sound pressure; dB(A)	64	64
Power supply; V/ph/Hz	380-415/3/50	380-415/3/50
Width / Height / Depth; mm	960 / 1770 / 2000	1135 / 2300 / 2220
Net weight; kg	440	670
Water flow rated; m^3/h	9.8	17.2
Water pipe connections; inch	2"	2 1/2"
Volume of expansion tank; l	12	22

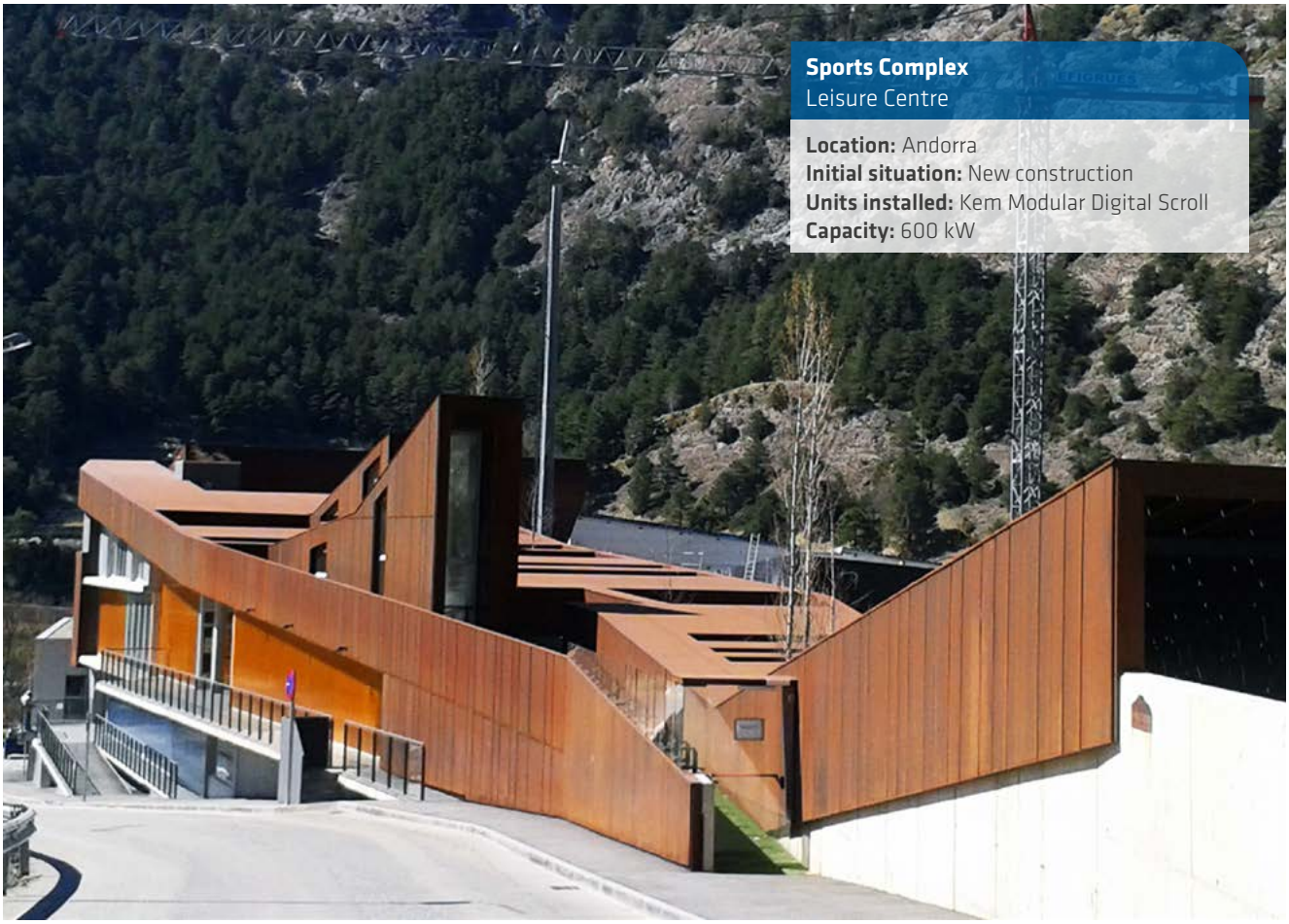
Accessories	Model
Hydraulic flanges kit for 65-90 kW Full DC Chillers	Kit victaulic 65-75-90
Hydraulic flanges kit for 110-140 kW Full DC Chillers	Kit victaulic 110-140

Cooling capacity. Cooling input. EER: Data calculated in compliance with EN 14511:2018 Standard, with reference to the following conditions: indoor heat exchanger water temperature = 12/7°C; outdoor heat exchanger inlet air temperature = 35°C.
Heating capacity. Heating input. COP: Data calculated in compliance with EN 14511:2018 Standard, with reference to the following conditions: indoor heat exchanger water temperature = 40/45°C; outdoor heat exchanger inlet air temperature = 7°C DB/6°C WB.
SEER. SCOP: Data calculated in compliance with EN 14825:2016 Standard. The product meets the ErP (Energy Related Products) European Directive, which include the (EU) Commission Delegated Regulation No. 811/2013 (rated thermal input ≤ 70 kW under specified reference conditions) and (EU) Commission Delegated Regulation No. 813/2013 (rated thermal input ≤ 400 kW under specified reference conditions).
Sound pressure: Sound levels refer to the unit under full charge. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air. The measurements are taken in accordance with UNI EN ISO 9614-2 standard, respecting the conditions imposed by EUROVENT 8/1 certification. Data under the following conditions: indoor heat exchanger water temperature = 12/7°C; outdoor air temperature. = 35°C.
Supplementary charge: For units with R-32 gas and a charge > 11.5 kg per circuit, the remaining charge must be applied on site.

References

Key Installations

The **Nexus range** represents Kaysun's commitment to environment. Thanks to its wide range of dimensions and capacities, **Nexus** chillers adapt to every type of space. Hotels, offices and business centres choose this range as their ally in the air-conditioning of their installations.



Sports Complex
Leisure Centre

Location: Andorra
Initial situation: New construction
Units installed: Kem Modular Digital Scroll
Capacity: 600 kW

Other customers that have trusted Kaysun Nexus

HOTELS
- Al-Mirab Hotel (Córdoba)
- Calabera Hotel (Huelva)
- Marina Luz Hotel (Palma de Mallorca)
- Ambos Mundos Hotel (Palma de Mallorca)
- Mac Hotels (Palma de Mallorca)
- Paraiso Hotel (Málaga)
- Gran Palladium Resort (Ibiza)
- Ruta Jacobea Hotel (Santiago Compostela)
- Alcotan Hotel (San Pedro de Alcántara)
- Orly Hotel (Camponaraya, León)

PUBLIC BUILDINGS
- Baza City Council (Granada)
- Caracoles Building - Chamartin Railway Station (Madrid)
- 091 Emergencies Headquarters (Málaga)
- Madrid Underground Headquarters (Madrid)
- Barakaldo City Council (Bizkaia)
- T2 Terminal AENA Airport (Barcelona)

SCHOOLS AND UNIVERSITITES
- San Luis School (Menorca)
- Camino de Gelves Nursery School (Seville)
- María de la Salud State School (Majorca)

HOSPITALS, HEALTH CLINICS AND CENTRES
- San Juan de Dios Clinic (Málaga)
- Santa Elena Clinic (Málaga)
- Old People's Home (Fuente de Piedra)
- Rincón Clinic (Béjar)
- Old People's Home (Ronda)

RESIDENCES
- Alpe Buildings (Tarragona)

LEISURE CENTRES
- Xesc Forteza Theater (Palma de Mallorca)
- School of Music (Cádiz)
- The Royal Calvary (Seville)
- Ribadeo Auditorium (Lugo)
- GAS Natural Headquarters (Rubí)

BUSINESS CENTRES AND OFFICES
- Aerospace Engineering Group (Seville)
- Banca March (Palma de Mallorca)
- Health Department Headquarters of the Andalusia Autonomous Government (Cádiz)
- Hilaturas Ferre (Alicante)
- Leti Laboratories (Barcelona)
- Casa del Libro Book Stores (Barcelona)
- Prenatal (Almería)
- Zara HOME (Valencia)
- Stradivarius (Gerona, A Coruña)
- Imegasa Paper and Pulp Mill (Mugardos, A Coruña)
- Pharmaceutical Cooperative (Santiago Compostela)
- Wine Cooperative (Cacabelos, León)

Escola Sever do Vouga
School

Location: Aveiro (Portugal)
Initial situation: New construction
Units installed: Nexus
Capacity: 60 kW

Estado Português - Palacio das Necessidades
Public building

Location: Lisbon (Portugal)
Initial situation: Rehabilitation
Units installed: Nexus
Capacity: 30 kW

Cordex
Textile Company

Location: Esmoriz (Portugal)
Initial situation: New construction
Units installed: KEM200HN3 + KEM130HN3
Capacity: 315 kW

Bière Artisanale Sarlat

Bière Artisanale Sarlat
Brewery

Location: Vezac y Sarlat la Caneda (France)
Initial situation: Renovation
Units installed: Digital Scroll
Capacity: 95 kW

Alicante Revestech
Commercial Building

Location: Alicante (Spain)
Initial situation: Renovation
Units installed: Nexus
Capacity: 65 kW

Gadis Supermarket
Commercial Building

Location: Oleiros - Coruña (Spain)
Initial situation: New construction
Units installed: Nexus
Capacity: 195 kW

Esade
University

Location: Barcelona (Spain)
Initial situation: Renovation
Units installed: Kem Modular Digital Scroll
Capacity: 195 kW

Volkswagen
Business Centre

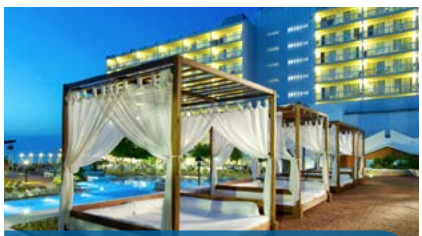
Location: Barcelona (Spain)
Initial situation: Replacement
Units installed: Nexus
Capacity: 200 kW

Andalucia Princess
Hotel

Location: Málaga (Spain)
Initial situation: New construction
Units installed: Kem Modular Digital Scroll
Capacity: 700 kW

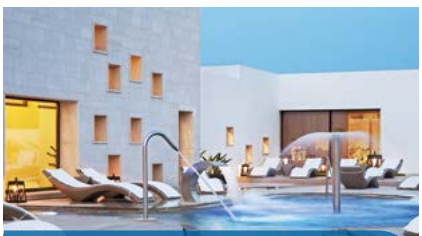
Zara
Commercial Building

Location: Girona (Spain)
Initial situation: New construction
Units installed: Kem Modular Digital Scroll
Capacity: 195 kW



Matutes - Fiesta Hotels
Hotel

Location: Ibiza (Spain)
Initial situation: Renovation
Units installed: Nexus
Capacity: 200 kW



Grand Palladium
Hotel

Location: Ibiza (Spain)
Initial situation: Renovation
Units installed: Minichillers
Capacity: 251 kW

Museum Of Enthnography
Cultural Centre

Location: Zamora (Spain)
Initial situation: New construction
Units installed: Nexus
Capacity: 95 kW

Gadis Supermarket
Commercial Building

Location: Oleiros - Coruña (Spain)
Initial situation: New construction
Units installed: Nexus
Capacity: 195 kW

School of Music
Public Building

Location: Mallorca (Spain)
Initial situation: New construction
Units installed: Kem Modular Digital Scroll
Capacity: 200 kW

Fosters Hollywood
Restaurant

Location: Gijón (Spain)
Initial situation: New construction
Units installed: Nexus, Zen
Capacity: 90 kW

Fancoils

Water Terminal Units Product Range

Presentation of the range

Fancoils Water Terminals Units Product Range

Floor/Ceiling 2nd Generation

This second generation has improved electronics, latest-generation control and an organic design which allows the air to flow in a more natural way.

Cooling power kW 2 3.5 4 7 **2 pipes**

0-10V INPUT SIGNAL · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE · MODBUS · ON/OFF CONTACT

Wall-mounted

New, more elegant design and electronics with 0-10V signal input to control the DC fan and Modbus output.

Cooling power kW 2.5 4 5 **2 pipes**

0-10V INPUT SIGNAL · DC INVERTER INTERNAL FAN · COMPATIBLE WITH AIRZONE · MODBUS · ON/OFF CONTACT

Cassettes 600x600

These units, with a 360° panel, achieve even, fast and far-reaching air-conditioning. They adapt to any space and can be fully integrated without sticking out, even in shallow ceilings.

Cooling power kW 3 4 **2 pipes**

Cooling power kW 2.5 3 **4 pipes**

DC INVERTER INTERNAL FAN · DRAINAGE PUMP · COMPATIBLE WITH AIRZONE · ON/OFF CONTACT · FRESH AIR SUPPLY · AIR OUTLET 360°

Cassettes 840x840

New 360° panel with independent louvres, elegant design and advanced electronics, with 0-10V signal input to control the DC fan and Modbus output. They provide high levels of comfort with low consumption.

Cooling power kW 6 8 11 **2 pipes**

Cooling power kW 5 6.5 8 **4 pipes**

0-10V INPUT SIGNAL · DC INVERTER INTERNAL FAN · DRAINAGE PUMP · COMPATIBLE WITH AIRZONE · MODBUS · ON/OFF CONTACT · INDEPENDENT BLADES · AIR OUTLET 360°

Ducts

Compact fancoils with features that facilitate the installation process enormously, such as the filter which can be removed without opening the ducting, or its mounting plates.

Cooling power kW 2 3 4 6 8 9 11 **2 pipes**

Cooling power kW 1.5 2 3 4 5 **4 pipes**

DC INVERTER INDOOR — DC INVERTER INTERNAL FAN
A — COMPATIBLE WITH AIRZONE
AIR INTAKE
FRESH AIR SUPPLY

Ducts

NEW

New generation of 2-pipe low-pressure ducted fan coils

Cooling power kW 3 4 6 7 9 11 **2 pipes**

0-10V — 0-10V INPUT SIGNAL
DC INVERTER INDOOR — DC INVERTER INTERNAL FAN
A — COMPATIBLE WITH AIRZONE
ON/OFF CONTACT
FRESH AIR SUPPLY

Ducts Medium Pressure

NEW

New generation of medium pressure ducted fan coils for 2- or 4-pipe installation with AC fan as standard and EC option. Multiple options

Cooling power kW 7 10 13 15 17 **2 pipes**

Cooling power kW 7 10 12 13 17 **4 pipes**

A — COMPATIBLE WITH AIRZONE
ON/OFF CONTACT
LOW SOUND LEVEL
AIR INTAKE
FRESH AIR SUPPLY

Ducts High Pressure

NEW

New generation of high pressure ducted fan coils for 2- or 4-pipe installation with AC fan as standard and EC option. Multiple options

Cooling power kW 8 12 15 18 21 **2 pipes**

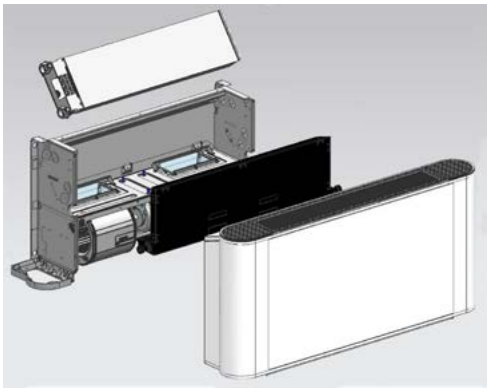
Cooling power kW 8 12 15 16 20 **4 pipes**

A — COMPATIBLE WITH AIRZONE
ON/OFF CONTACT
LOW SOUND LEVEL
AIR INTAKE
FRESH AIR SUPPLY

Fancoils

Water Terminals Units Product Range

Kaysun presents its new range of fancoils; water terminal units incorporating DC fans throughout practically the entire range. These units are the perfect complement to the Kaysun chiller range.



The comfort of water

The fancoil units provide an air conditioning system comprising a water coil and a fan. These types of units are ideal for commercial premises and large areas, as they only need a piping system to supply the fancoil with cold or hot water. Kaysun incorporates the latest technologies within the water terminal units for commercial buildings and large residential installations.

Cutting-edge design accompanied by maximum performance

All the units stand out for their elegant, compact, functional design, as Kaysun has not hesitated in providing their fancoils with a carefully-chosen cutting edge aesthetics.

Energy efficiency

Applying the same philosophy, Kaysun has not only paid attention to aesthetics, but also to consumption. These fancoils feature energy-efficient, ecological technologies, through which they reduce the energy consumption of an installation, providing the user with economic savings

Impeccable regarding installation and maintenance

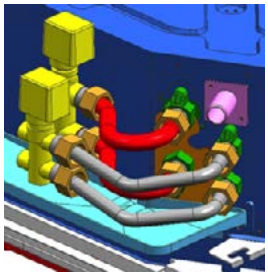
The entire range has been provided with impressive features to facilitate installation, reduce maintenance time and tasks, and maximise comfort for the user.

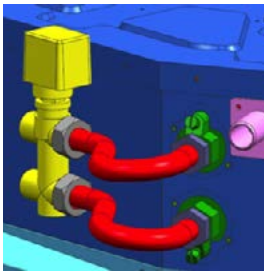
Silent equipment

The Kaysun fancoils not only provide comfort with their flow adjustment functions based on the thermal load for a minimum temperature fluctuation, but are also silent units that respect the harmony of the living environment.

All options within your reach

In order to adapt to all your installation requirements regarding function and aesthetics, the range includes ducts, floor/ceiling, cassette 600x600, cassette 840x840 and wall units. Kaysun has the perfect solution for any need.





Units available with 2 and 4 pipes

The Cassette 600x600 unit, Cassette 840x840 unit and ducts are available in 2 and 4-pipe configurations.
The four-pipe configurations allow units to be operating independently and simultaneously in cold and heat mode within the same installation.
Four-pipe coils are fitted with two rows to work in cold mode, and with one row to work in heat mode.
Ducts and cassette units include an extended condensation tray as standard.
Duct, cassette and wall type fancoil units have an optional L-shaped pipework kit for easy installation.

Huge variety and type of control

The Kaysun fancoils feature a wide range of controls, whether individual wireless, individual wired, centralised or gateway for integration within building management systems. Regarding aesthetics and function, the Kaysun range goes from the classic conventional thermostat, with sensor, temperature selection wheel and two switches (heat/off/cold and 3 speeds) to more advanced touch controls.
All the Kaysun fancoils are compatible with these controls as standard, except the duct and floor/ceiling fancoils, which have the basic controls and interface controls (with 2 or 4-tube versions) in order to be managed via more advanced controls.

Floor/Ceiling 2nd Generation

These new second-generation units are specially designed to save space. Due to its reduced depth it allows flexible installation in wall-mounted to floor standing applications, whether totally or partially recessed, adapting perfectly to the aesthetics of the environment. The connections on the standard model are located to the left of the discharge.

DC fans

Maximum comfort and reduced consumption.

Horizontal or vertical installation

The same unit can be installed as floor or ceiling equipment, according to the needs of the space to be air conditioned.

Uncased or concealed installation

The fancoil comes in uncased or concealed versions, providing the optimum solution for any setting.

Wide range of controllers

There is a wide range of easy, intuitive individual and centralised controllers, integrated control solutions, integration within BMS and latest-generation wireless models.

Uncased

Cased

KC-FC-S2
Recommended thermostat

0-10V INPUT SIGNAL | DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE | MODBUS | ON/OFF CONTACT

2 pipes cased

Model	KFC-S2E-2T-250D	KFC-S2E-2T-350D	KFC-S2E-2T-500D	KFC-S2E-2T-800D
Cooling capacity min. / max.; kW	1.19 / 2.35	2.20 / 3.5	2.71 / 4.3	4.57 / 7.35
Sensitive cooling capacity min. / max.; kW	0.86 / 1.79	1.57 / 2.65	1.91 / 3.25	3.45 / 5.87
Heating capacity min. / max.; kW	1.34 / 2.6	2.19 / 3.5	2.6 / 4.3	4.71 / 8.05
Air flow low / medium / high; m^3/h	190 / 315 / 400	340 / 470 / 595	410 / 580 / 790	685 / 1015 / 1360
Power input min. / max.; W	7 / 17	10 / 26	14 / 50	22 / 113
Water flow cooling min. / max.; m^3/h	0.21 / 0.4	0.38 / 0.6	0.47 / 0.74	0.79 / 1.27
Evaporator pressure drop; Cooling min. / max.; kPa	4.5 / 13.3	15.4 / 34.1	22.8 / 54.2	19.3 / 44.1
Evaporator pressure drop; Heating min. / max.; kPa	4.5 / 14.3	14.8 / 35.1	22.3 / 54.3	18.2 / 46.9
Water pipes connection cooling/heating; inch	3/4"	3/4"	3/4"	3/4"
Sound pressure low / medium / high; dB(A)	29 / 37 / 43	37 / 45 / 52	43 / 52 / 59	49 / 58 / 64
Power supply; V/ph/Hz	220/1/50	220/1/50	220/1/50	220/1/50
Width / Height / Depth; mm	1020 / 495 / 200	1240 / 495 / 200	1240 / 495 / 200	1360 / 495 / 200
Net weight; kg	21.5	25.5	25.5	32.5

2 pipes uncased

Model	KFC-S2-2T-250D	KFC-S2-2T-350D	KFC-S2-2T-500D	KFC-S2-2T-800D
Cooling capacity min. / max.; kW	1.19 / 2.35	2.20 / 3.5	2.71 / 4.3	4.57 / 7.35
Sensitive cooling capacity min. / max.; kW	0.86 / 1.79	1.57 / 2.65	1.91 / 3.25	3.45 / 5.87
Heating capacity min. / max.; kW	1.34 / 2.6	2.19 / 3.5	2.6 / 4.3	4.71 / 8.05
Air flow low / medium / high; m^3/h	190 / 315 / 400	340 / 470 / 595	410 / 580 / 790	685 / 1015 / 1360
Power input min. / max.; W	7 / 17	10 / 26	14 / 50	22 / 113
Water flow cooling min. / max.; m^3/h	0.21 / 0.4	0.38 / 0.6	0.47 / 0.74	0.79 / 1.27
Evaporator pressure drop; Cooling min. / max.; kPa	4.5 / 13.3	15.4 / 34.1	22.8 / 54.2	19.3 / 44.1
Evaporator pressure drop; Heating min. / max.; kPa	4.5 / 14.3	14.8 / 35.1	22.3 / 54.3	18.2 / 46.9
Water pipes connection cooling/heating; inch	3/4"	3/4"	3/4"	3/4"
Sound pressure low / medium / high; dB(A)	29 / 37 / 43	37 / 45 / 52	43 / 52 / 59	49 / 58 / 64
Power supply; V/ph/Hz	220/1/50	220/1/50	220/1/50	220/1/50
Width / Height / Depth; mm	858 / 455 / 200	1078 / 455 / 200	1078 / 455 / 200	1198 / 551 / 200
Net weight; kg	16.5	19.5	19.5	25

Accessories	Model
Recommended controller	KC-FC-S2
Thermostat for 2 pipe units	KC-FC-2T
Thermostat with display for 2 pipe units	KC-FCD2
Pipework kit for KFC-S2(E)-2T-250D until KFC-S2(E)-2T-500D	KIT TUB FC 2S(E)-2T
Pipework kit for KFC-S2(E)-2T-800D	KIT TUB FC 2S(E)-2T-1
3-way valve 3/4	KV3-FC 3/4
ON/OFF Actuator	KACT-0

The product meets the ErP (Energy Related Products) European Directive, which includes the (EU) Commission Delegated Regulation No. 2016/2281, also known as Ecodesign LOT21.
Ductless air flow (0 Pa available pressure).
Cooling capacity. Sensible cooling capacity. Water flow cooling.
Evaporator pressure drop cooling: Water entering heat exchanger 7°C (thermal gap 5°C) - Ambient air 27°C DB/19°C WB.
Heating capacity. Evaporator pressure drop heating: Water entering heat exchanger 45°C (thermal gap 5°C) - Ambient air 20°C.
Sound pressure: Sound levels measured using an anechoic chamber and with reference to a unit for the installation of 2 pipes. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air.

Wall-mounted

The Kaysun wall-mounted fancoils have been provided with impressive features to facilitate installation and reduce maintenance time and tasks, while at the same time maximising comfort for the user.

Wide range of controllers

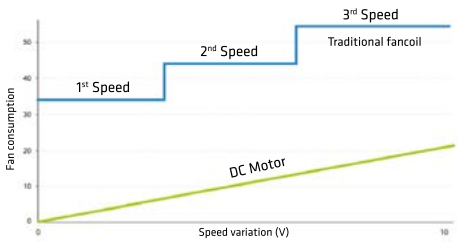
There is a wide range of easy, intuitive individual and centralised controllers, integrated control solutions, integration within BMS and latest-generation wireless models.

DC fans

Maximum comfort and reduced consumption.

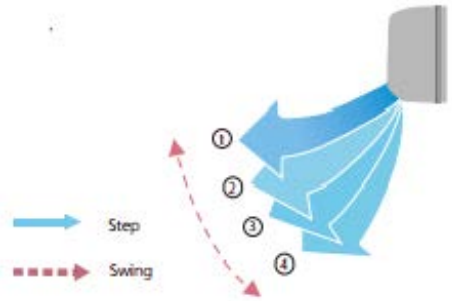
Ease of installation

On/off 3-way valve as standard; the option to connect piping on both sides.



0-10V input

New electronics with 0-10V input signal to control the fan speed via external control.



Swing

The best possible air flow distribution.

KI-04 S
Recommended controller

0-10V INPUT SIGNAL | DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE | MODBUS | ON/OFF CONTACT

Model	KFC-AY-2T-250D3	KFC-AY-2T-400D3	KFC-AY-2T-600D3
Cooling capacity min. / max.; kW	2.39 / 2.70	2.88 / 3.81	3.79 / 4.87
Sensitive cooling capacity min. / max.; kW	1.85 / 2.15	2.31 / 3.18	3.10 / 4.11
Heating capacity min. / max.; kW	2.58 / 2.94	3.09 / 4.30	3.96 / 5.26
Air flow low / medium / high; m^3/h	400 / 454 / 492	590 / 689 / 825	717 / 849 / 979
Power input min. / max.; W	8 / 13	15 / 34	18 / 38
Water flow cooling min. / max.; m^3/h	0.42 / 0.48	0.51 / 0.67	0.65 / 0.85
Evaporator pressure drop; Cooling min. / max.; kPa	25.4 / 31.6	33.0 / 56.7	33.7 / 50.7
Evaporator pressure drop; Heating min. / max.; kPa	30.2 / 32.7	35.7 / 51.9	33.0 / 47.1
Water pipes connection cooling/heating; inch	3/4"	3/4"	3/4"
Sound pressure low / medium / high; dB(A)	27 / 30 / 32	35 / 39 / 45	35 / 40 / 44
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	915 / 290 / 230	915 / 290 / 230	1072 / 315 / 230
Net weight; kg	12.7	12.7	14.9

Accessories	Model
Electronic thermostat with display	KCT-02.1 SR
Electronic wall-mounted thermostat with 0-10V output	HIDTI8X
Recessed electronic thermostat with Modbus	HIDTI10X

The product meets the ErP (Energy Related Products) European Directive, which includes the (EU) Commission Delegated Regulation No. 2016/2281, also known as Ecodesign LOT21.
Cooling capacity. Sensible cooling capacity. Water flow cooling. Evaporator pressure drop cooling: Water entering heat exchanger 7°C (thermal gap 5°C) - Ambient air 27°C DB/19°C WB.
Heating capacity. Water flow heating. Water pipes connections cooling/heating. Evaporator pressure drop heating: Water entering heat exchanger 45°C (thermal gap 5°C) - Ambient air 20°C.
Sound pressure: Sound levels measured using an anechoic chamber and with reference to a unit for the installation of 2 pipes. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air.
NOTE: The model's white colour may vary with respect to the image.
Units available while stocks last.

Cassettes 600x600

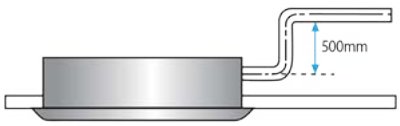
The Artflux cassette with 360° panel achieves uniform, rapid, far-reaching climate control, without leaving dead zones thanks to an additional motor that allows swing of between 37° and 42°. The unit is so compact and light that it can adapt and perfectly integrate within any space, including shallow ceilings, without sticking out.

DC fans

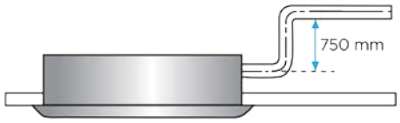
Maximum comfort and reduced consumption.

Air control

- Uniform 360° air conditioning
- Outdoor air intake
- Outlet to adjacent office



Cassette 600x600



Cassette 840x840

Condensation pump

- Condensation pump as standard
- Extended condensation tray as standard

Wide range of controllers

There is a wide range of easy, intuitive individual and centralised controllers, integrated control solutions, integration within BMS and latest-generation wireless models.

DC INVERTER INDOOR — DC INVERTER INTERNAL FAN

DRAINAGE PUMP

A — COMPATIBLE WITH AIRZONE

ON/OFF CONTACT

FRESH AIR SUPPLY

360° — AIR OUTLET 360°

Cassette 600x600 2 pipes

KI-04 S
Recommended controller

2 pipes

Model	KFC-CI-2T-300D1	KFC-CI-2T-500D1
Cooling capacity min. / max.; kW	2.00 / 2.98	3.01 / 4.2
Sensitive cooling capacity min. / max.; kW	1.59 / 2.49	2.31 / 3.45
Heating capacity min. / max.; kW	2.24 / 2.61	3.26 / 4.95
Air flow low / medium / high; m^3/h	322 / 429 / 535	494 / 611 / 781
Power input min. / max.; W	5 / 15	21 / 43
Water flow cooling min. / max.; m^3/h	0.35 / 0.53	0.54 / 0.75
Evaporator pressure drop; Cooling min. / max.; kPa	5 / 10	7.4 / 12.3
Evaporator pressure drop; Heating min. / max.; kPa	5.3 / 12.1	6.1 / 9.4
Water pipes connection cooling/heating; inch	3/4"	3/4"
Sound pressure low / medium / high; dB(A)	27 / 33 / 39	32 / 38 / 43
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	575 / 261 / 575	575 / 261 / 575
Net weight; kg	16.5	16.5
Panel; Width / Height / Depth; mm	647 / 50 / 647	647 / 50 / 647
Panel; Net weight; kg	2.5	2.5

4 pipes

Model	KFC-CI-4T-300D1	KFC-CI-4T-500D1
Cooling capacity min. / max.; kW	1.65 / 2.4	2.29 / 3.05
Sensitive cooling capacity min. / max.; kW	1.26 / 2	1.75 / 2.54
Heating capacity min. / max.; kW	2.25 / 4.24	3.09 / 5.97
Air flow low / medium / high; m^3/h	321 / 429 / 539	462 / 572 / 731
Power input min. / max.; W	5 / 14	11 / 32
Water flow cooling min. / max.; m^3/h	0.28 / 0.42	0.4 / 0.54
Water flow heating min. / max.; m^3/h	0.21 / 0.32	0.28 / 0.39
Evaporator pressure drop; Cooling min. / max.; kPa	9.3 / 17.3	10.3 / 16.8
Evaporator pressure drop; Heating min. / max.; kPa	11.3 / 23.5	14.5 / 26.8
Water pipes connection cooling/heating; inch	3/4" / 1/2"	3/4" / 1/2"
Sound pressure low / medium / high; dB(A)	27 / 33 / 39	31 / 39 / 44
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	575 / 261 / 575	575 / 261 / 575
Net weight; kg	16.7	16.7
Panel; Width / Height / Depth; mm	647 / 50 / 647	647 / 50 / 647
Panel; Net weight; kg	2.5	2.5

Accessories	Model
Electronic thermostat with display	KCT-02.1 SR
Pipework kit for 2 pipes Cassette 600x600 Fancoils	KIT TUB FC CI-2T
Pipework kit for 4 pipes Cassette 600x600 Fancoils	KIT TUB FC CI-4T
3-way valve 3/4 (cool water)	KV3-FC 3/4
3-way valve 1/2 (hot water)	KV3-FC 1/2
ON/OFF Actuator	KACT-0

KACT-0: Please remember to order 2 actuators for your 4 pipe Fancoil.

The product meets the ErP (Energy Related Products) European Directive, which includes the (EU) Commission Delegated Regulation No. 2016/2281, also known as Ecodesign LOT21.

Cooling capacity. Sensible cooling capacity. Water flow cooling. Evaporator pressure drop cooling: Water entering heat exchanger 7°C (thermal gap 5°C) - Ambient air 27°C DB/19°C WB.

Heating capacity. Water flow heating. Water pipes connections cooling/heating. Evaporator pressure drop heating: Water entering heat exchanger 45°C (thermal gap 5°C) - Ambient air 20°C.

Sound pressure: Sound levels measured using an anechoic chamber and with reference to a unit for the installation of 2 pipes. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air.

NOTE: The model's white colour may vary with respect to the image.
Units available while stocks last.

Cassettes 840x840

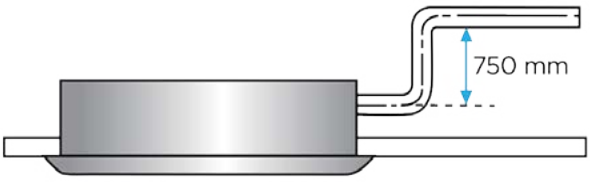
New 360° panel with independent louvers, elegant design and advanced electronics, with 0-10V signal input to control the DC fan and Modbus output. They provide high levels of comfort with low consumption.

DC fans

Maximum comfort and reduced consumption.

Air control

- Uniform 360° air conditioning
- Outdoor air intake
- Independent control of louvers



Cassette 840x840

Condensation pump

- Condensation pump as standard
- Extended condensation tray as standard

Wide range of controllers

There is a wide range of easy, intuitive individual and centralised controllers, integrated control solutions, integration within BMS and latest-generation wireless models.

KI-04 S
Recommended controller

0-10V INPUT SIGNAL | DC INVERTER INTERNAL FAN | DRAINAGE PUMP | COMPATIBLE WITH AIRZONE | MODBUS | ON/OFF CONTACT | INDEPENDENT BLADES | AIR OUTLET 360°

2 pipes

Model	KFC-CIS-2T-600D2	KFC-CIS-2T-950D2	KFC-CIS-2T-1500D2
Cooling capacity min. / max.; kW	4.40 / 5.93	6.35 / 7.84	7.48 / 11.19
Sensitive cooling capacity min. / max.; kW	3.52 / 5	5.23 / 6.65	5.97 / 9.03
Heating capacity min. / max.; kW	5.32 / 6.06	6.36 / 8.49	8.68 / 10.07
Air flow low / medium / high; m^3/h	768 / 987 / 1175	1101 / 1224 / 1530	1198 / 1415 / 1871
Power input min. / max.; W	17 / 41	34 / 75	39 / 126
Water flow cooling min. / max.; m^3/h	0.77 / 1.05	1.12 / 1.43	1.28 / 1.96
Evaporator pressure drop; Cooling min. / max.; kPa	11 / 19.2	14.1 / 22	16.3 / 36.6
Evaporator pressure drop; Heating min. / max.; kPa	19.8 / 25.9	17.4 / 28.1	23.3 / 49.2
Water pipes connection cooling/heating; inch	3/4"	3/4"	3/4"
Sound pressure low / medium / high; dB(A)	33 / 39 / 43	39 / 42 / 49	39 / 43 / 49
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	840 / 230 / 840	840 / 230 / 840	840 / 230 / 840
Net weight; kg	23	27	29.5
Panel; Width / Height / Depth; mm	950 / 55 / 950	950 / 55 / 950	950 / 55 / 950
Panel; Net weight; kg	5	5	5

4 pipes

Model	KFC-CIS-4T-600D2	KFC-CIS-4T-950D2	KFC-CIS-4T-1500D2
Cooling capacity min. / max.; kW	4.00 / 5.36	4.75 / 5.82	6.45 / 8.76
Sensitive cooling capacity min. / max.; kW	3.42 / 4.66	4.13 / 5.05	5.4 / 7.7
Heating capacity min. / max.; kW	5.09 / 7.38	5.93 / 8.52	8.24 / 12.29
Air flow low / medium / high; m^3/h	768 / 987 / 1175	1088 / 1212 / 1525	1191 / 1410 / 1857
Power input min. / max.; W	19 / 50	32 / 77	38 / 125
Water flow cooling min. / max.; m^3/h	0.72 / 0.99	0.83 / 1.04	1.14 / 1.58
Water flow heating min. / max.; m^3/h	0.47 / 0.61	0.55 / 0.68	0.76 / 0.99
Evaporator pressure drop; Cooling min. / max.; kPa	8.1 / 14.8	10.9 / 16.4	17.7 / 33
Evaporator pressure drop; Heating min. / max.; kPa	14.5 / 25.3	23.5 / 34	27 / 48.7
Water pipes connection cooling/heating; inch	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"
Sound pressure low / medium / high; dB(A)	31 / 37 / 42	38 / 41 / 46	38 / 43 / 49
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	840 / 230 / 840	840 / 230 / 840	840 / 230 / 840
Net weight; kg	27.5	27.5	30
Panel; Width / Height / Depth; mm	950 / 55 / 950	950 / 55 / 950	950 / 55 / 950
Panel; Net weight; kg	5	5	5

Accessories	Model
Electronic thermostat with display	KCT-02.1 SR
Pipework kit for 2 pipes Cassette 840x840 Fancoils	KIT TUB FC CIS-2T
Pipework kit for 4 pipes Cassette 840x840 Fancoils	KIT TUB FC CIS-4T
3-way valve 3/4 (cool water)	KV3-FC 3/4
3-way valve 1/2 (hot water)	KV3-FC 1/2
ON/OFF Actuator	KACT-0

KACT-0: Please remember to order 2 actuators for your 4 pipe Fancoil.

The product meets the ErP (Energy Related Products) European Directive, which includes the (EU) Commission Delegated Regulation No. 2016/2281, also known as Ecodesign LOT21.

Cooling capacity. Sensible cooling capacity. Water flow cooling. Evaporator pressure drop cooling: Water entering heat exchanger 7°C (thermal gap 5°C) - Ambient air 27°C DB/19°C WB.

Heating capacity. Water flow heating. Water pipes connections cooling/heating. Evaporator pressure drop heating: Water entering heat exchanger 45°C (thermal gap 5°C) - Ambient air 20°C.

Sound pressure: Sound levels measured using an anechoic chamber and with reference to a unit for the installation of 2 pipes. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air.

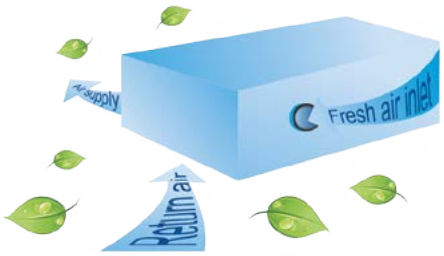
NOTE: The model's white colour may vary with respect to the image.

Ducts

These duct units include a tilted evaporator which, in addition to providing a wider exchange area, achieves a height which is so compact and low that it facilitates installation in rooms with false ceilings of just 241 mm. The connections on the standard model are located to the left of the discharge.

DC fans

Maximum comfort and reduced consumption.



Air control

- Replaceable air return panel (rear/lower)
- Outdoor air intake

Easy and fast to install and maintain

- Filter removable without opening ducting
- Plate to support ducting suction and discharge
- Extended condensation tray on left as standard

Wide range of controllers

There is a wide range of easy, intuitive individual and centralised controllers, integrated control solutions, integration within BMS and latest-generation wireless models.

KC-FCD2-M
Recommended thermostat for 2 pipes and 4 pipes

DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE | AIR INTAKE | FRESH AIR SUPPLY

2 pipes uncased

Model	KFC-PD-2T-200D	KFC-PD-2T-300D	KFC-PD-2T-400D	KFC-PD-2T-600D	KFC-PD-2T-800D	KFC-PD-2T-1000D	KFC-PD-2T-1200D
Cooling capacity min. / max.; kW	1.32 / 2.35	2.1 / 3.12	2.5 / 3.99	3.78 / 5.85	5.08 / 8.02	5.66 / 8.96	6.79 / 10.79
Sensitive cooling capacity min. / max.; kW	0.9 / 1.75	1.49 / 2.52	1.8 / 3.1	2.7 / 4.49	3.64 / 6.19	4.21 / 7.33	5.04 / 8.84
Heating capacity min. / max.; kW	1.42 / 2.68	2.27 / 3.82	2.77 / 4.7	4.00 / 6.62	5.58 / 9.15	6.35 / 10.74	7.47 / 12.62
Air flow low / medium / high; m^3/h	205 / 273 / 411	311 / 442 / 596	389 / 564 / 734	544 / 760 / 1022	781 / 1038 / 1452	906 / 1332 / 1824	1083 / 1581 / 2134
Max. pressure available; Pa	50	50	50	50	50	50	50
Power input min. / max.; W	6 / 17	7 / 20	9 / 26	12 / 49	16 / 60	19 / 96	21 / 106
Water flow cooling min. / max.; m^3/h	/ 0.43	/ 0.6	/ 0.69	/ 1.05	/ 1.42	/ 1.59	/ 1.93
Evaporator pressure drop; Cooling min. / max.; kPa	6.3 / 13.6	11.3 / 23.8	5.8 / 13	14.2 / 31.4	13.9 / 31.6	10.8 / 24.1	12.8 / 26.3
Evaporator pressure drop; Heating min. / max.; kPa	4.9 / 12.6	11.3 / 25	6.2 / 13	13.6 / 31.7	13.9 / 32.9	12 / 28.3	11.9 / 29.4
Water pipes connection cooling/heating; inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Sound pressure low / medium / high; dB(A)	23 / 28 / 38	21 / 30 / 36	24 / 32 / 38	30 / 39 / 46	28 / 36 / 45	31 / 41 / 48	32 / 42 / 49
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	741 / 241 / 522	841 / 241 / 522	941 / 241 / 522	1161 / 241 / 522	1461 / 241 / 522	1566 / 241 / 522	1856 / 241 / 522
Net weight; kg	16.7	19	21	23.7	33	34.7	39.2

4 pipes

Model	KFC-PD-4T-200D	KFC-PD-4T-300D	KFC-PD-4T-500D	KFC-PD-4T-600D	KFC-PD-4T-800D
Cooling capacity min. / max.; kW	0.8 / 1.4	1.5 / 2.20	1.9 / 3.00	2.5 / 4.20	3.1 / 5.30
Sensitive cooling capacity min. / max.; kW	0.58 / 1.02	1.10 / 1.61	1.39 / 2.20	1.82 / 3.1	2.26 / 3.87
Heating capacity min. / max.; kW	1.23 / 2.29	2.20 / 3.08	2.84 / 3.62	3.51 / 5.57	4.41 / 6.3
Air flow low / medium / high; m^3/h	140 / 210 / 320	280 / 340 / 450	370 / 470 / 690	440 / 670 / 900	670 / 840 / 1240
Max. pressure available; Pa	50	50	50	50	50
Power input min. / max.; W	5 / 16	8 / 21	10 / 36	11 / 45	14 / 57
Water flow cooling min. / max.; m^3/h	/ 0.27	/ 0.38	/ 0.54	/ 0.73	/ 0.93
Water flow heating min. / max.; m^3/h	/ 0.2	/ 0.27	/ 0.32	/ 0.49	/ 0.55
Evaporator pressure drop; Cooling min. / max.; kPa	4.7 / 10.1	5 / 10.5	6 / 13.6	6.9 / 15.3	5.6 / 12.8
Evaporator pressure drop; Heating min. / max.; kPa	3.6 / 8.9	4 / 9.1	5.2 / 11.7	19 / 42.8	5.3 / 12
Water pipes connection cooling/heating; inch	3/4" / 3/4"	3/4" / 3/4"	3/4" / 3/4"	3/4" / 3/4"	3/4" / 3/4"
Sound pressure low / medium / high; dB(A)	26 / 32 / 36	26 / 33 / 37	28 / 35 / 58	29 / 36 / 39	30 / 37 / 41
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	741 / 241 / 522	841 / 241 / 522	941 / 241 / 522	1161 / 241 / 522	1461 / 241 / 522
Net weight; kg	17.2	19.5	21.5	24.2	33.5

Accessories	Model
Thermostat for 2 pipes units	KC-FC-2T
Thermostat for 4 pipes units	KC-FC-4T
Thermostat with display for 2 pipe units	KC-FCD2
Thermostat with display for 4 pipe units	KC-FCD2-M
Interface to Kaysun control for 2 pipe units	K01-FC-2T
Interface to Kaysun control for 4 pipe units	K01-FC-4T
Pipework kit for 2 pipes Ducts Fancoils	KIT TUB FC PD-2T-2
Pipework kit for 4 pipes Ducts Fancoils	KIT TUB FC PD-4T-1
3-way valve 3/4	KV3-FC 3/4
ON/OFF Actuator	KACT-0

KACT-0: Please remember to order 2 valves and 2 actuators for your 4 pipes fancoils.

The product meets the ErP (Energy Related Products) European Directive, which includes the (EU) Commission Delegated Regulation No. 2016/2281, also known as Ecodesign LOT21.
Ductless air flow (0 Pa available pressure).
Cooling capacity. Sensible cooling capacity. Water flow cooling. Evaporator pressure drop cooling: Water entering heat exchanger 7°C (thermal gap 5°C) - Ambient air 27°C DB/19°C WB.
2 PIPES: Heating capacity. Evaporator pressure drop heating: Water entering heat exchanger 45°C (thermal gap 5°C) - Ambient air 20°C.
4 PIPES: Heating capacity. Water flow heating. Water pipes connection cooling/heating. Evaporator pressure drop heating: Water entering heat exchanger 65°C (thermal gap 10°C) - Ambient air 20°C.
Sound pressure: Sound levels measured using an anechoic chamber and with reference to a unit for the installation of 2 pipes. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air.

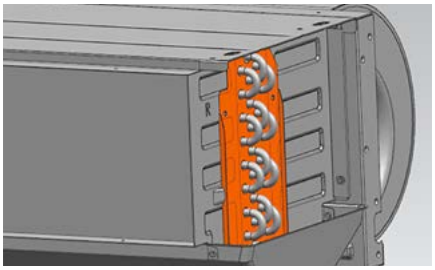
Ducts

NEW

New generation of ducted fan coil units with coil with a larger exchange area and a more compact design, with a maximum height of 243 mm. Its new electronics allows multiple control options.

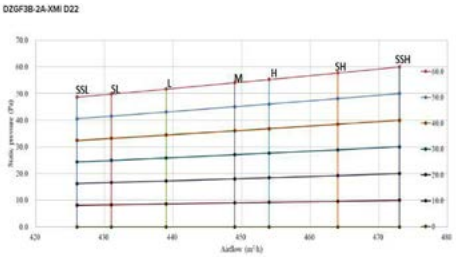
DC Fans

The DC fan reduces energy consumption by up to 70%. energy consumption. Minimal fluctuation of ambient temperature, reducing the sound level and increasing comfort.



New condensate tray

With greater capacity for any type of installation.



Speed Control

Possibility to manage the DC fan via 0-10V input with 7 fan speeds, optional expansion card required.

New controller

The new electronic control for wall installation with multiple options

KCT-04 SR
Recommended thermostat for 2 pipes

0-10V INPUT SIGNAL | DC INVERTER INTERNAL FAN | COMPATIBLE WITH AIRZONE | ON/OFF CONTACT | FRESH AIR SUPPLY

2 pipes

Model	KFC-PD-2T-300D3	KFC-PD-2T-500D3	KFC-PD-2T-600D3	KFC-PD-2T-700D3	KFC-PD-2T-1000D3	KFC-PD-2T-1400D3
Cooling capacity min. / max.; kW	2.21 / 3.35	2.97 / 4.55	3.66 / 5.85	5.09 / 6.50	4.97 / 9.05	9.77 / 11.11
Heating capacity min. / max.; kW	2.51 / 3.95	3.20 / 5.5	4.21 / 6.9	5.81 / 7.6	5.41 / 11	10.59 / 12.67
Air flow low / medium / high; m^3/h	307 / 421 / 482	456 / 622 / 800	552 / 810 / 1022	806 / 1015 / 1190	746 / 1201 / 1650	1675 / 1952 / 2250
Max. pressure available; Pa	50	50	50	50	50	50
Power input min. / max.; W	10 / 25	14 / 40	19 / 65	33 / 75	19 / 119	64 / 119
Water flow cooling min. / max.; m^3/h	0.37 / 0.59	0.54 / 0.8	0.65 / 1	0.91 / 1.19	0.88 / 1.58	1.71 / 2.02
Evaporator pressure drop; Cooling min. / max.; kPa	10.6 / 23	12.1 / 23	16.89 / 34	15.6 / 22	11.7 / 32	25.9 / 33
Evaporator pressure drop; Heating min. / max.; kPa	11.2 / 25	12 / 25	18.60 / 38	16.2 / 25	10.9 / 33	25.3 / 34
Water pipes connection cooling/heating; inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Sound pressure low / medium / high; dB(A)	31 / 22.5 / 37	39 / 31 / 45	43.5 / 34 / 49.5	45 / 40 / 51	46 / 34 / 54.5	50 / 46.5 / 53
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	773 / 243 / 482	908 / 243 / 482	1003 / 243 / 482	1178 / 243 / 482	1368 / 243 / 482	1898 / 243 / 482
Net weight; kg	17.2	20.40	21.7	23.5	27.7	37

Accessories	Model
Electronic thermostat with display	KCT-02.1 SR
Pipework kit for 2 pipes Ducts Fancoils	KIT TUB FC PD-2T-3
3-way valve 3/4 (cool water)	KV3-FC 3/4
3-way valve 1/2 (hot water)	KV3-FC 1/2
ON/OFF Actuator	KACT-0

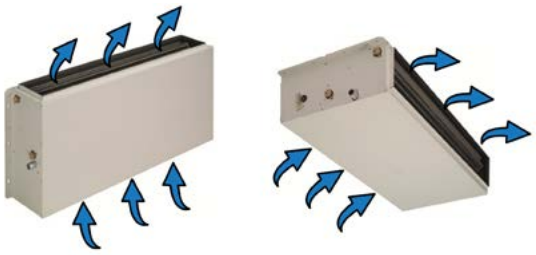
KACT-0: Please remember to order 2 actuators for your 4 pipe Fancoil.

The product meets the ErP (Energy Related Products) European Directive, which includes the (EU) Commission Delegated Regulation No. 2016/2281, also known as Ecodesign LOT21.
Ductless air flow (0 Pa available pressure).
Cooling capacity. Sensible cooling capacity. Water flow cooling. Evaporator pressure drop cooling: Water entering heat exchanger 7°C (thermal gap 5°C) - Ambient air 27°C DB/19°C WB.
2 PIPES: Heating capacity. Evaporator pressure drop heating: Water entering heat exchanger 45°C (thermal gap 5°C) - Ambient air 20°C.
4 PIPES: Heating capacity. Water flow heating. Water pipes connection cooling/heating. Evaporator pressure drop heating: Water entering heat exchanger 65°C (thermal gap 10°C) - Ambient air 20°C.
Sound pressure: Sound levels measured using an anechoic chamber and with reference to a unit for the installation of 2 pipes. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air.

Ducts Medium Pressure

NEW

New generation of medium-pressure ducted fan coils with AC fan for with AC fan for 2 or 4 pipe installations with compact design and very quiet. Available with a wide range of accessories.

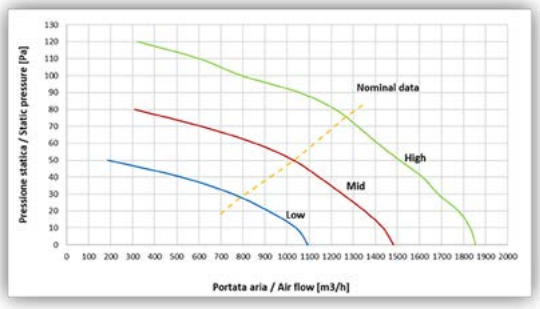


Multiples Configurations

Available for 2 or 4 pipe installation, with left or right hand connections. Optionally also available with EC fan and/or vertical installation.

Wide range of controllers

Electronic control for 2 or 4 tubes with standard modbus output and remote probe input.



Available Pressure

The medium pressure duct range offers maximum available pressures up to 120 Pa.

Soundproofing

Among its many options is the possibility of being manufactured with a 20mm panel to reduce the sound level, ideal for installations where sound attenuation is a priority.

KC-FCD2-M
Recommended thermostat for 4 pipes

COMPATIBLE WITH AIRZONE | ON/OFF CONTACT | LOW SOUND LEVEL | AIR INTAKE | FRESH AIR SUPPLY

2 pipes

Model	FMDA-130	FMDA-220	FMDA-230	FMDA-240	FMDA-330
Cooling capacity min. / max.; kW	5.78 / 7.48	8.76 / 10.3	10.97 / 12.9	13.06 / 15	13.79 / 17.2
Sensitive cooling capacity min. / max.; kW	3.36 / 5.56	6.72 / 8.1	8.25 / 9.94	9.46 / 11.1	10.3 / 13.3
Heating capacity min. / max.; kW	6.01 / 7.9	9.85 / 11.7	12.12 / 14.4	13.12 / 15.2	15.34 / 19.39
Air flow low / medium / high; m^3/h	792 / 1008 / 1200	1617 / 1953 / 2100	1771 / 2139 / 2300	1760 / 2068 / 2200	2170 / 2821 / 3100
Max. pressure available; Pa	120	120	120	120	120
Power input min. / max.; W	128 / 179	283 / 330	283 / 330	283 / 330	305 / 409
Water flow cooling min. / max.; m^3/h	/ 1.3	/ 1.76	/ 2.23	/ 2.59	/ 2.95
Evaporator pressure drop; Cooling min. / max.; kPa	22.6 / 37.7	15.2 / 21	23.9 / 35.7	19 / 25.1	14.8 / 23.1
Evaporator pressure drop; Heating min. / max.; kPa	21.2 / 36.7	16.7 / 23.6	25.3 / 35.7	16.6 / 22.3	15.9 / 25.5
Water pipes connection cooling/heating; inch	3/4"	3/4"	3/4"	3/4"	3/4"
Sound pressure low / medium / high; dB(A)	48 / 54 / 59	54 / 60 / 62	55 / 61 / 63	55 / 61 / 63	52 / 59 / 62
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	800 / 250 / 555	1200 / 250 / 555	1200 / 250 / 555	1200 / 250 / 555	1600 / 250 / 555
Net weight; kg	35	48	50	53	65

4 pipes

Model	FMDA-131	FMDA-221	FMDA-231	FMDA-241	FMDA-331
Cooling capacity min. / max.; kW	5.68 / 7.22	8.67 / 9.96	10.88 / 12.4	10.77 / 13.2	13.77 / 16.60
Sensitive cooling capacity min. / max.; kW	4.05 / 5.35	6.67 / 7.83	8.19 / 9.52	8.22 / 10.4	10.32 / 12.8
Heating capacity min. / max.; kW	4.8 / 6.2	8.9 / 10.31	9.44 / 10.84	11.09 / 13.78	11.95 / 14.58
Air flow low / medium / high; m^3/h	775 / 980 / 1140	1600 / 1880 / 2000	1758 / 2040 / 2170	1922 / 2456 / 2670	2168 / 2725 / 2930
Max. pressure available; Pa	120	120	120	120	120
Power input min. / max.; W	128 / 175	283 / 330	283 / 330	305 / 409	305 / 409
Water flow cooling min. / max.; m^3/h	/ 1.22	/ 1.73	/ 2.12	/ 2.27	/ 2.84
Water flow heating min. / max.; m^3/h	/ 0.54	/ 0.9	/ 0.94	/ 1.19	/ 1.26
Evaporator pressure drop; Cooling min. / max.; kPa	21.9 / 35.2	14.9 / 19.6	23.5 / 30.6	8.8 / 13.2	14.8 / 21.4
Evaporator pressure drop; Heating min. / max.; kPa	20.2 / 33.6	20.8 / 27.9	23 / 30.4	16.8 / 25.9	19.1 / 28.4
Water pipes connection cooling/heating; inch	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"
Sound pressure low / medium / high; dB(A)	48 / 54 / 59	54 / 60 / 62	55 / 61 / 63	51 / 58 / 61	52 / 59 / 62
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	800 / 250 / 555	1200 / 250 / 555	1200 / 250 / 555	1600 / 250 / 555	1600 / 250 / 555
Net weight; kg	37	51	53	66	68

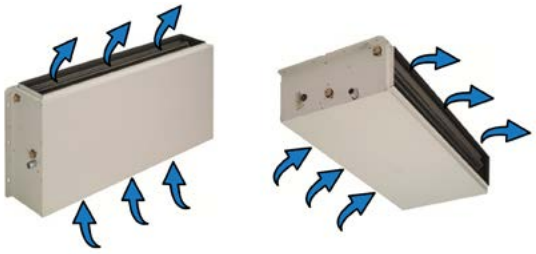
Accessories	Model
EC fan	VEC
Recessed electronic thermostat with Modbus	HIDTI9X
Recessed electronic thermostat with 0-10V and Modbus output	HIDTI10X
Auxiliary condensate tray	BROX
Sandwich panel 20mm	P20
Ductable filter holder	SFCF
3-way ON/OFF valve kit for 2 pipes	3V2
3-way ON/OFF valve kit for 4 pipes	3V4

The product meets the ErP (Energy Related Products) European Directive, which includes the (EU) Commission Delegated Regulation No. 2016/2281, also known as Ecodesign LOT21.
Ductless air flow (0 Pa available pressure).
Cooling capacity. Sensible cooling capacity. Water flow cooling. Evaporator pressure drop cooling: Water entering heat exchanger 7°C (thermal gap 5°C) - Ambient air 27°C DB/19°C WB.
2 PIPES: Heating capacity. Evaporator pressure drop heating: Water entering heat exchanger 45°C (thermal gap 5°C) - Ambient air 20°C.
4 PIPES: Heating capacity. Water flow heating. Water pipes connection cooling/heating. Evaporator pressure drop heating: Water entering heat exchanger 65°C (thermal gap 10°C) - Ambient air 20°C.
Sound pressure: Sound levels measured using an anechoic chamber and with reference to a unit for the installation of 2 pipes. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air.

Ducts High Pressure

NEW

New generation of high-pressure ducted fan coils with AC fan for with AC fan for 2 or 4 pipe installations with compact design and very quiet. Available with a wide range of accessories.

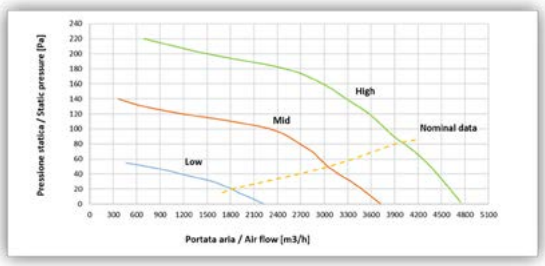


Multiples Configurations

Available for 2 or 4 pipe installation, with left or right hand connections. Optionally also available with EC fan and/or vertical installation.

Wide range of controllers

Electronic control for 2 or 4 tubes with standard modbus output and remote probe input.



Available Pressure

The medium pressure duct range offers maximum available pressures up to 150 Pa.

Soundproofing

Among its many options is the possibility of being manufactured with a 20mm panel to reduce the sound level, ideal for installations where sound attenuation is a priority.

KC-FCD2-M
Recommended thermostat for 4 pipes

COMPATIBLE WITH AIRZONE | ON/OFF CONTACT | LOW SOUND LEVEL | AIR INTAKE | FRESH AIR SUPPLY

2 pipes

Model	FHDA-130	FHDA-220	FHDA-230	FHDA-240	FHDA-330
Cooling capacity min. / max.; kW	6.24 / 8.65	8.38 / 12	10.61 / 15.2	12.57 / 17.8	16.84 / 21.2
Sensitive cooling capacity min. / max.; kW	4.51 / 6.58	6.46 / 9.77	7.99 / 12.1	9.02 / 13.5	13.19 / 17.2
Heating capacity min. / max.; kW	6.68 / 9.44	9.69 / 14.2	12.01 / 17.60	12.85 / 18.60	19.69 / 25.15
Air flow low / medium / high; m^3/h	885 / 1200 / 1500	1540 / 2448 / 2750	1680 / 2670 / 3000	1625 / 2537 / 2850	3036 / 4048 / 4400
Max. pressure available; Pa	150	150	150	150	150
Power input min. / max.; W	128 / 212	175 / 390	175 / 390	175 / 390	430 / 570
Water flow cooling min. / max.; m^3/h	/ 1.48	/ 2.04	/ 2.63	/ 3.06	/ 3.64
Evaporator pressure drop; Cooling min. / max.; kPa	20.5 / 39.5	13.7 / 28.1	18.7 / 38.4	15.3 / 30.7	18.8 / 29.8
Evaporator pressure drop; Heating min. / max.; kPa	20.3 / 40.9	15.9 / 34.1	20.8 / 44.7	13.9 / 29.1	22.3 / 36.4
Water pipes connection cooling/heating; inch	3/4"	3/4"	3/4"	3/4"	3/4"
Sound pressure low / medium / high; dB(A)	45 / 53 / 59	46 / 57 / 61	47 / 58 / 65	47 / 58 / 62	57 / 58 / 63
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	800 / 275 / 605	1200 / 275 / 605	1200 / 275 / 605	1200 / 275 / 605	1600 / 275 / 605
Net weight; kg	37	51	53	56	69

4 pipes

Model	FHDA-131	FHDA-221	FHDA-231	FHDA-321	FHDA-331
Cooling capacity min. / max.; kW	6.09 / 8.27	8.11 / 11.5	10.42 / 14.6	13.13 / 16.10	16.7 / 20.3
Sensitive cooling capacity min. / max.; kW	6.09 / 6.25	6.24 / 9.33	7.79 / 11.5	10.51 / 13.3	13.09 / 16.39
Heating capacity min. / max.; kW	8.27 / 11.47	13.69 / 19.82	14.65 / 20.98	22.84 / 28.36	24.27 / 29.87
Air flow low / medium / high; m^3/h	854 / 1162 / 1400	1465 / 2262 / 2570	1624 / 2492 / 2800	2736 / 3534 / 3800	2993 / 3854 / 4100
Max. pressure available; Pa	150	150	150	150	150
Power input min. / max.; W	128 / 212	175 / 390	175 / 390	430 / 570	430 / 570
Water flow cooling min. / max.; m^3/h	/ 1.4	/ 1.94	/ 2.52	/ 2.77	/ 3.49
Water flow heating min. / max.; m^3/h	/ 1.19	/ 1.69	/ 1.8	/ 2.77	/ 3.49
Evaporator pressure drop; Cooling min. / max.; kPa	19.6 / 31.8	12.8 / 25.8	18 / 35.4	13 / 19.5	18.3 / 27.2
Evaporator pressure drop; Heating min. / max.; kPa	16.6 / 31.8	12.5 / 26.2	14.1 / 28.8	15.6 / 24.1	17.3 / 26.2
Water pipes connection cooling/heating; inch	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"
Sound pressure low / medium / high; dB(A)	45 / 53 / 59	46 / 57 / 61	47 / 58 / 62	56 / 58 / 62	57 / 62 / 63
Power supply; V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Width / Height / Depth; mm	800 / 275 / 605	1200 / 275 / 605	1200 / 275 / 605	1600 / 275 / 605	1600 / 275 / 605
Net weight; kg	40	56	58	73	75

The product meets the ErP (Energy Related Products) European Directive, which includes the (EU) Commission Delegated Regulation No. 2016/2281, also known as Ecodesign LOT21.
Ductless air flow (0 Pa available pressure).
Cooling capacity. Sensible cooling capacity. Water flow cooling. Evaporator pressure drop cooling: Water entering heat exchanger 7°C (thermal gap 5°C) - Ambient air 27°C DB/19°C WB.
2 PIPES: Heating capacity. Evaporator pressure drop heating: Water entering heat exchanger 45°C (thermal gap 5°C) - Ambient air 20°C.
4 PIPES: Heating capacity. Water flow heating. Water pipes connection cooling/heating. Evaporator pressure drop heating: Water entering heat exchanger 65°C (thermal gap 10°C) - Ambient air 20°C.
Sound pressure: Sound levels measured using an anechoic chamber and with reference to a unit for the installation of 2 pipes. The sound pressure level refers to the measurement taken at a distance of 1 m from the external surface of the unit, operating in the open air.

Accessories	Model
EC fan	VEC
Recessed electronic thermostat with Modbus	HIDTI9X
Recessed electronic thermostat with 0-10V and Modbus output	HIDTI10X
Auxiliary condensate tray	BROX
Sandwich panel 20mm	P20
Ductable filter holder	SFCF
3-way ON/OFF valve kit for 2 pipes	3V2
3-way ON/OFF valve kit for 4 pipes	3V4

Fancoils Controllers



◯ Optional
⊗ Not available

For more information, check the Controls chapter.

		Description	Code	Ceiling/Floor 2nd Gen	Cassette 600x600	Cassette 840x840
Individual Controllers		2 or 4 pipe wall mechanical thermostat	KC-FC-XT	◯	⊗	⊗
		Wall thermostat with display for 2-pipe installation	KC-FCD2	◯	⊗	⊗
		Wall thermostat with display for 4-pipe installantion and Modbus output	KC-FCD2-M	◯	⊗	⊗
		Wired controller	KCT-04 SR	⊗	⊗	⊗
		Electro-mechanical thermostat with display and built-in temp for AC version	HIDTI9	◯	⊗	⊗
		Electro-mechanical thermostat with display and built-in temp for EC version	HIDTI10	◯	⊗	◯
		Individual wireless controller	KI-04 S	⊗	◯	◯
Centralised Controllers		Indoor unit´s groupcontroller	KCC-150	◯	◯	◯
		Centralised controller through APP or WEB	KCC-64 WEB 2019	◯	◯	◯
		Centralised controller	KCCT-64 I (B)	◯	◯	◯
Passerelle de Communication		Modbus	K02-MODBUS or K01 MODBUS	standard	◯	standard
		Bacnet	K01-BACNET	◯	◯	◯
		Lonwork	K01-LON	◯	◯	◯
		Knx	K01-KNX	◯	◯	◯
	Compatible with AIRZONE	Compatible with Airzone	Contact with Airzone	◯	◯	◯
WiFi		WiFi	K01-WIFI	+ K01-FC-XT	◯	◯

Wall-mounted	Ducts	Ducts	Ducts. Medium pressure	Ducts. High pressure
⊗	○	⊗	○	○
⊗	○	⊗	○	○
⊗	○	⊗	○	○
⊗	⊗	○	⊗	⊗
⊗	○	⊗	○	○
○	⊗	⊗	○	○
○	⊗	⊗	⊗	⊗
○	⊗	⊗	⊗	⊗
○	⊗	⊗	⊗	⊗
○	⊗	⊗	⊗	⊗
standard	⊗	⊗	⊗	⊗
○	⊗	⊗	⊗	⊗
○	⊗	⊗	⊗	⊗
○	⊗	⊗	⊗	⊗
○	○	⊗	○	○
○	⊗	⊗	⊗	⊗

References

Key Installations

The indoor units of the **Fancoil range** are the best complement for the Nexus range chillers. The **Fancoils range** includes a wide variety of models and capacities that are available in 2 and 4 pipes configurations. These highly versatile units adapt to every type of installation.

Sun Beach
Apartments

Location: Santa Ponça (Spain)
Initial situation: Renovation
Units installed: Wall
Capacity: 55 kW

Other customers that have trusted Kaysun Fancoils

HOTELS
- Andreas Apartments (Majorca)

PUBLIC BUILDINGS
- "Miguel Rodríguez" Multipurpose Centre for Elderly People Comprehensive Care (Cádiz)
- Museo de la Cruz Museum (Córdoba)

BUSINESS CENTRES AND OFFICES
- Cardomore Water Plant (Ibiza)
- CIE Galfor (Orense)

Tea Shop Offices
Business Centre

Location: Barcelona (Spain)
Initial situation: Renovation
Units installed: Cassette 600x600
Capacity: 65 kW

Santo Angel School
Public Building

Location: Madrid (Spain)
Initial situation: Renovation
Units installed: different models
Capacity: 95 kW

Juan March Hospital
Public Building

Location: Mallorca (Spain)
Initial situation: Renovation
Units installed: Cassette 600x600
Capacity: 330 kW

Regina Park Hotel
Hotel

Location: Ibiza (Spain)
Initial situation: Renovation
Units installed: different models
Capacity: 195 kW

Coeps Fire Brigade Headquarters
Public Building

Location: Seville (Spain)
Initial situation: Renovation
Units installed: KEM 30 DHN2KH + 6 KFC PD + RITE 4000.2+
Capacity: 30 kW

Llobregat Water Plant
Business Centre

Location: Barcelona (Spain)
Initial situation: Renovation
Units installed: Cassette 840x840 and 600x600
Capacity: 75 kW

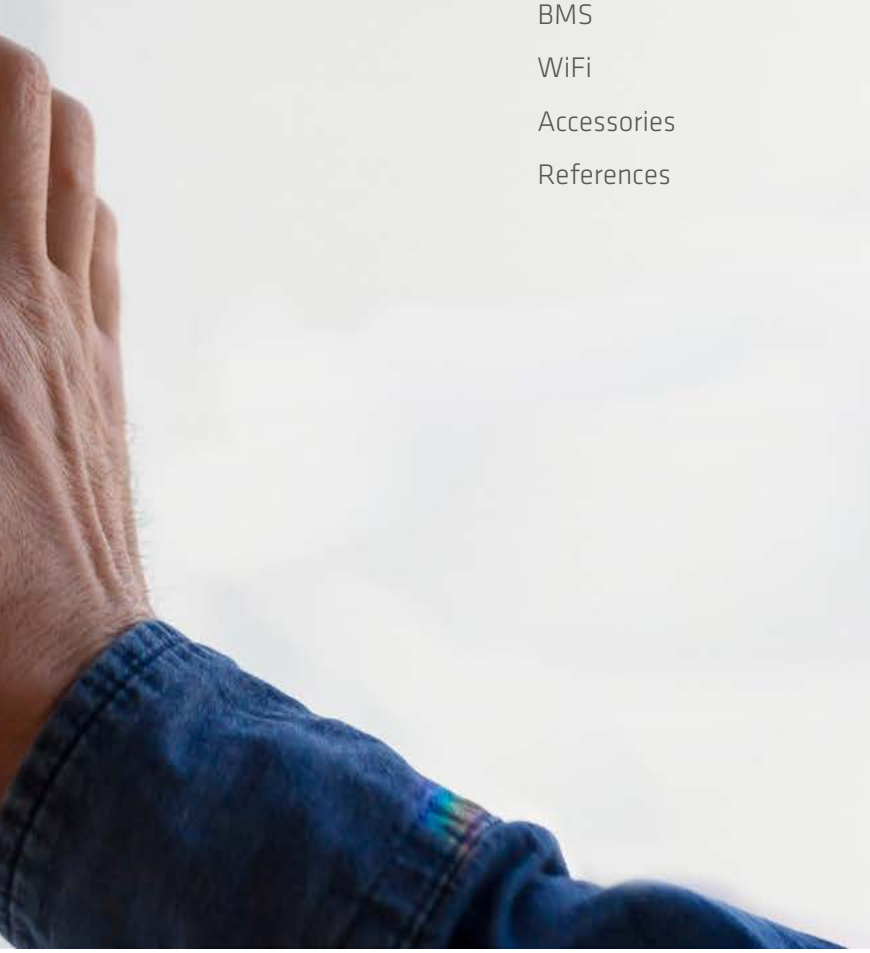
Tea Shop Offices
Business Centre

Location: Barcelona
Initial situation: Renovation
Units installed: Cassette 600x600
Capacity: 65 kW


22
AUTO

Controls

System Controls Range



Presentation of the range
System controls range

To get the most out of the units, choosing the correct controller is a very important part of the job. For this reason, KAYSUN has a very powerful and versatile range of controllers to fit into different installations and customers needs. Inside the range, you will find different options in single controllers, both wireless or wired to adapt the installation to your needs.

Individual and wired wireless controllers

The Kaysun range has a wide variety of individual wireless and wired controls. Each of them has been conceived and designed for a specific range in order to be able to make full use of the control of the unit.

Centralised controllers

When the installation grows and it is necessary to monitor all the units, the first option is centralised control. The Kaysun range has three different types of centralised controls; two centralised touch screen controls great functions and ease of use, a control panel with touch button controls for controlling up to 64 indoor units, and centralised web control to view the indoor units from anywhere.

B.M.S. (Building Management Systems)

Within its range Kaysun has integrated gateway controls for BMS integration with the most common protocols: Modbus, Lonworks, KNX and Bacnet.

WiFi Controller

Within WiFi control, there are several control options which vary based on the unit to control and the requirements of each installation.

Accessories

Various accessories that allow us to extend the possibilities of our indoor units, add complementary functions to other controls and/or facilitate the installation of Kaysun equipment.

Individual wireless controllers

KID-05 S

SELF-CLEANING · SWITCH OFF DISPLAY · FOLLOW ME · INTELLIGENT · NIGHT MODE · TURBO MODE · MUTE · SILENCE MODE

Features

- 24-hour timer
- Temperature control in 1°C increments
- LED function*
- ECO/GEAR function*
- SLEEP function*
- CLEAN function*
- FOLLOW ME function*
- SILENCE function*
- 100-level fan control*

* Functions compatibles with the SUITE and ZEN ranges. Check compatibility of functions in machine manual.

KI-04 S

ADDRESSING · FOLLOW ME

Features

- 24-hour timer
- Temperature control in 0.5°C or 1°C increments
- 3- or 7-speed fan control
- Individual control of louvres (cassette units)
- Direction setting for VRF indoor units
- Remote indoor unit display shut-down
- LOCK feature display
- LED function
- Displays with ECO feature is activated
- Silence function
- FOLLOW ME function

Check compatibility tables at the end of each chapter

Individual wired controllers

KCT-04.1 SPSWF

WiFi included

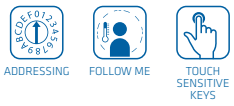
KCT-04.1 SPS

WiFi not included

Features

- 24-hour timer
- Malfunction codes display
- Touch sensitive
- Built-in infrared signal receiver
- Clock
- Capacity to control up to 16 indoor units
- LOCK feature display
- Two-tier access

KCT-02.1 SR



Features

- 24-hour timer
- Touch sensitive
- Built-in infrared signal receiver
- LOCK feature display
- Memory function

KC-02.1 H

Features

- Simplified; ideal for hotels
- Selection of locking mode
- 26°C function
- Memory function

Check compatibility tables at the end of each chapter

KC-03.2 SPS

TWINS FOLLOW ME WEEKLY PROGRAMMER

Features

- 24-hour timer
- Follow me
- Malfunction codes display
- Temperature control in 1°C increments
- Weekly timer
- Automatic and manual setting of static pressure in ducts
- 4-wire communication

KCT-03 SRPS (A)

TWO COMMUNICATION WIRES ADDRESSING FOLLOW ME INTELLIGENT WEEKLY PROGRAMMER TOUCH SENSITIVE KEYS

Features

- Weekly timer
- 24-hour timer
- Malfunction codes display
- Touch sensitive
- Built-in infrared signal receiver
- Clock
- Capacity to control up to 16 indoor units
- LOCK feature display
- Two-tier access

KCT-03 SR

TWO COMMUNICATION WIRES ADDRESSING FOLLOW ME INTELLIGENT TOUCH SENSITIVE KEYS

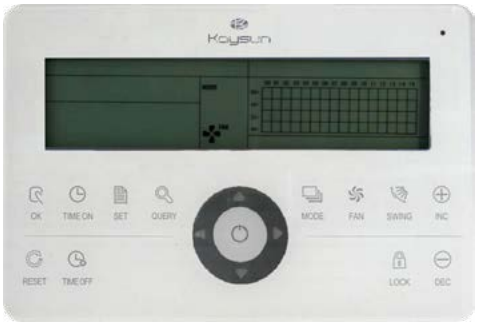
Features

- 24-hour timer
- Malfunction codes display
- Built-in infrared signal receiver
- Auto-Restart
- 3- or 7-speed fan control
- Languages: English

Check compatibility tables at the end of each chapter

Centralised touch controllers

KCCT-64 I(B-A)



Features

- Up to 64 indoor units and 8 cooling systems
- Daily timer
- Error code display
- Operating parameter view
- Emergency stop
- Keypad lock
- Full operating mode and thermostat lock
- In Amazon series communication protocols can not be mixed, only s4+ or s6 per control

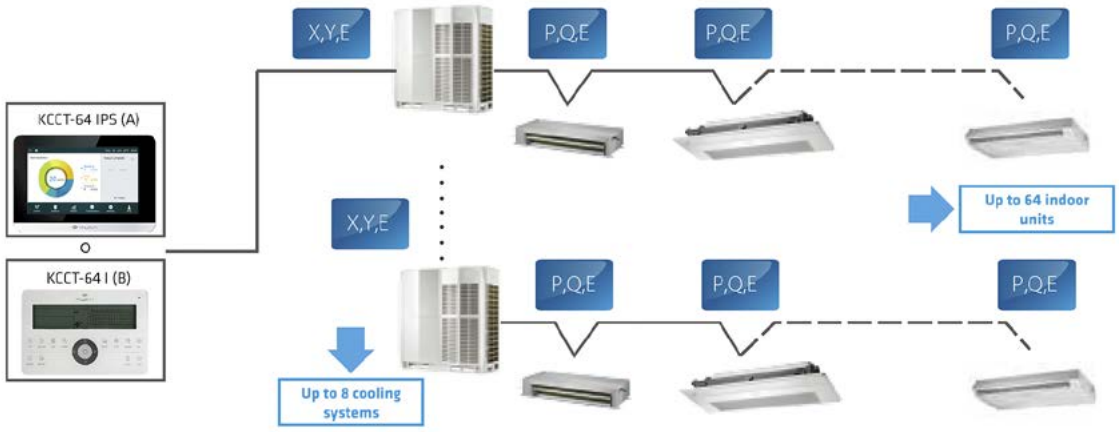
KCCT-64 IPS (A)

WEEKLY PROGRAMMER

TOUCH SENSITIVE KEYS

Features

- 6.2" touch screen with easy, intuitive interface
- Up to 64 indoor units and 8 cooling systems
- Weekly timer with full year calendar
- Group management
- Error code display
- Individual control, operating mode, temperature and speed lock
- Operation, breakdown and operating hours history for indoor units
- Operating parameters view
- Two-tier access (administrator and user)
- Languages: Spanish, English, French, Portuguese, Italian, German, Chinese, etc.
- In Amazon series communication protocols can not be mixed, only s4+ or s6 per control



Check compatibility tables at the end of each chapter

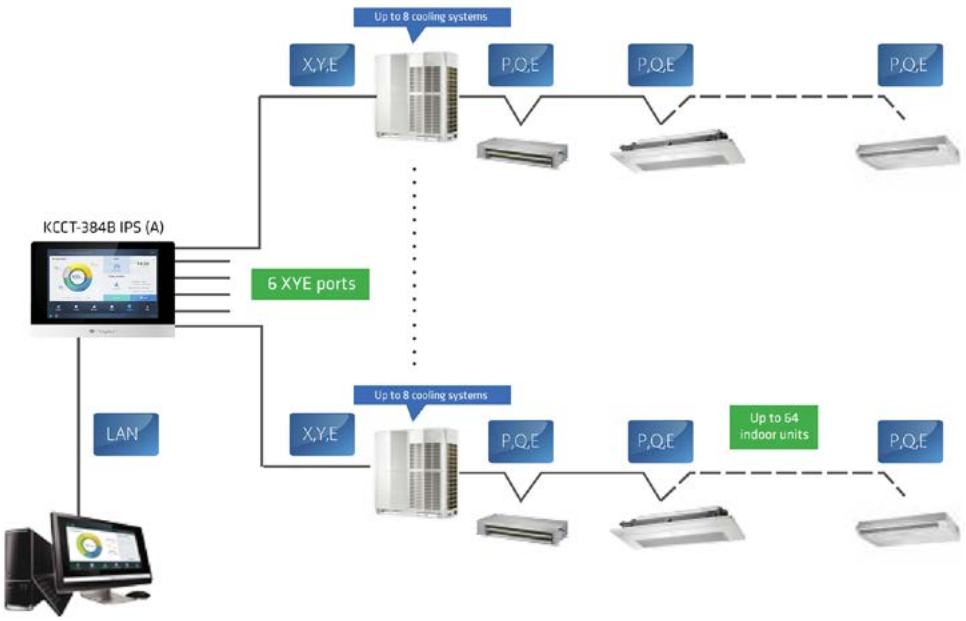
KCCT-384B IPS (B)

WEEKLY PROGRAMMER

TOUCH SENSITIVE KEYS

Features

- 10.1" touch screen with easy, intuitive interface
- Up to 384 indoor units, 192 outdoor units and 48 cooling systems
- Web function (remote access over LAN)
- Weekly timer with full year calendar
- Group management
- Error code display
- Individual control, operating mode,temperature and speed lock
- Operation, breakdown and operating hours history for indoor units
- Operating parameter view
- Two-tier access (administrator and user)
- Distribution of energy consumption (it is necessary to fit a wattmeter to all outdoor units)
- It allows s4+ and s6 systems to be managed simultaneously (connected to different KCCT XYE buses)
- Languages: Spanish, English, French, Portuguese, Italian, German, Chinese, etc.



Check compatibility tables at the end of each chapter

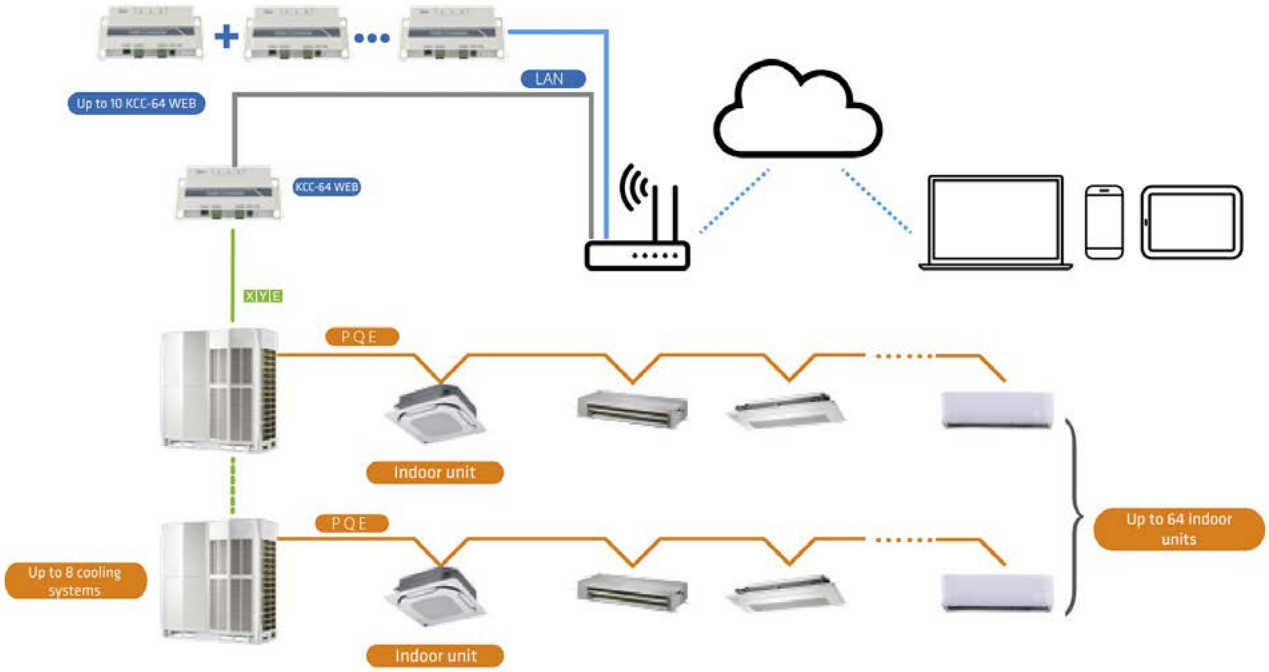
Web based central controllers

KCC-64 WEB

WEEKLY PROGRAMMER

Features

- Up to 64 indoor units per device
- Management via app or Web; capable of controlling up to 10 KCC-64 WEB modules
- Weekly timer
- Group management
- Error code display
- Individual control, operating mode, temperature and speed lock
- Two-tier access (administrator and user)
- Operation, breakdown and connected user history
- User management
- Languages: Spanish, English and French
- In Amazon series communication protocols can not be mixed, only s4+ or s6 per control

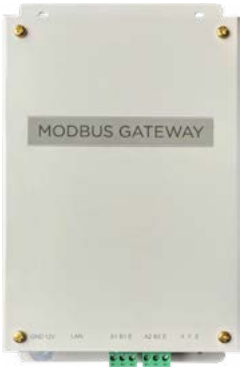


Check compatibility tables at the end of each chapter

BMS

Modbus

K05-MODBUS (A)



Features

- Modbus RTU or Modbus TCP/IP protocols
- Up to 8 cooling systems, 24 outdoor units and 64 indoor units
- In Amazon series it is only compatible with s6 outdoor units

K02-MODBUS

Features

- Modbus RTU or Modbus TCP/IP protocols
- Up to 8 cooling systems, 24 outdoor units and 64 indoor units
- In Amazon series it is only compatible with s4+ outdoor units

K01 MODBUS 1, K01 MODBUS 4, K01 MODBUS 8, K01 MODBUS 32

Features

- Modbus RTU protocol
- Power supply included
- Various gateway types to connect 1, 4, 8 or 32 indoor units
- In Amazon series it is only compatible with s4+ indoor units

Check compatibility tables at the end of each chapter

BMS

Bacnet

K01-BACNET

Features

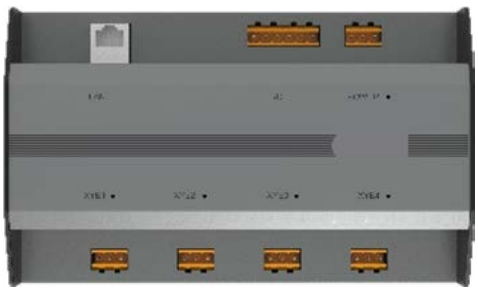
• Capacity to control up to 256 indoor units
• Depending on the configuration, up to 256 indoor or 128 outdoor units can be controlled
• In Amazon series it is only compatible with s4+ outdoor units

K05 BACNET 1

Features

• BACnet/IP and BACnet MSTP protocols
• Power supply included
• Various gateways to connect 2 outdoor unit
• In Amazon series communication protocols can not be mixed, only s4+ or s6 per control

K05.2-BACNET(A)



Features

• It has 4 XYE ports and each of them can be connected to a maximum of 8 cooling systems, 32 outdoors or 64 indoors
• Dual function, supports BACnet BMS and KAYNET CONTROL PRO simultaneously
• In Amazon series it is only compatible with s6 outdoor units

Check compatibility tables at the end of each chapter

BMS

KNX

K05-KNX 01 (A)

Features

• **K05-KNX:** KNX gateway for 1 VRF 2nd generation indoor unit (DN4). 1 is required for each indoor unit
• **K05-KNX 01 (A):** KNX gateway for the Amazon IV HR KWF-140 HT ACS (High temperature hydraulic module). 1 is required for each indoor unit
• Only compatible with Zen High Capacity and Amazon D4.0 indoor units
• Only compatible with Amazon KWF-140 HT

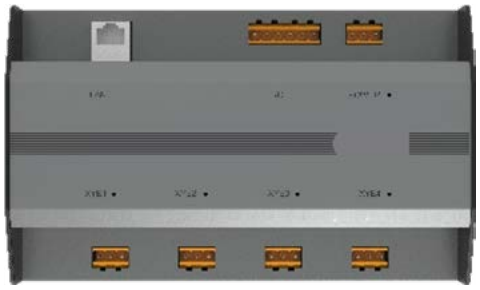
K01-KNX 1, K01-KNX 16, K01-KNX 64

Features

• KNX protocol
• Various gateway types to connect 1, 16 or 64 indoor units
• In Amazon series it is only compatible with s4+ outdoor units

Lonworks

K05-LON (A)



Features

• It has 1 XYE port which can be connected to a maximum of 8 cooling systems or 32 indoors
• In Amazon series it is only compatible with s6 outdoor units

K01-LON

Features

• Capacity to control up to 64 indoor units
• In Amazon series it is only compatible with s4+ outdoor units

Check compatibility tables at the end of each chapter

WiFi

FRIWF-USB-02

Features

- One is required for each indoor unit
- Connection to the screen board via USB
- Control via the NetHOME Plus app
- Weekly timer
- Bidirectional communication

works with Google Home

works with alexa

Check compatibility tables at the end of each chapter

K01-WIFI

Features

- One is required for each indoor unit
- Communication with the machine via infrared
- Control via the Intesis AC Cloud app
- Weekly timer
- Unidirectional communication

works with Google Home | works with Siri Shortcuts | works with alexa | Works with IFTTT | { } Professional Rest API

ON / OFF port

It allows externally control our IDU with an ON/OFF signal, for example, through a presence sensor, a closed window contact, or a card holder.

Control via WEB or via APP

We can control our units through the web http://accloud.intesis.com/ or through the Intesis AC Cloud APP. With these services, it is possible to control all the normal parameters, creating scenes, programming alarms, among others. Within the same APP we can control more than 3,000 machines.

Check compatibility tables at the end of each chapter

Accessories

MCAC-PIDU

Features

• When the 220 VAC supply to the indoor unit fails or cuts off unexpectedly, MCAC-PIDU provides a weak supply of 5 V/12 V to the indoor unit and subsequently turns off the indoor unit
• An MCAC-PIDU module is required for each indoor unit

DTS343-3

Features

• Digital wattmeter for VRF outdoor units
• It gives the consumption for each outdoor unit
• It allows the consumption to be monitored if installed with the KCCT-384B IPS (B) centralised controller.
• A wattmeter has to be installed for each outdoor unit, including for modules made up of several outdoor units, where one is installed for each and not for the combination

XYE EXTENSION KIT

Features

• XYE port duplicator
• It allows the connection of two BMS systems or two centralised controllers simultaneously
• It is necessary in order to connect a BMS and centralised controller simultaneously

Check compatibility tables at the end of each chapter

References

Key Installations

Kaysun and the latest technology go hand in hand as it forges ahead to offer the best in air-conditioning control units. Inspiration, innovation and progress are reflected in this range, bringing the newest look and best features to all of our control devices.

Komkal
Industrial Building

Location: Reus (Tarragona, Spain)
Units installed: MODBUS

Casa Árabe
Public Building

Location: Madrid (Spain)
Units installed: KAYNET

Dolce Fregate
Hotel

Location: Provence (France)
Units installed: KAYNET

IAQ

Indoor Air Quality

Presentation of the range

IAQ. Indoor Air Quality

Air purifiers

KPU-350.1

Air purification for indoor environments of up to 45 m2. Thanks to the HEPA certified H13 filters, up to 99.97% of polluting particles are eliminated and it thus protects users of the environment in which it has been installed.

KPU-700.1

Air purification for indoor environments of up to 45-85 m2. Thanks to the HEPA certified H13 filters, up to 99.97% of polluting particles are eliminated and, thanks to the Kaysun Proactive Pure technology, it actively purifies the air and protects users of the environment in which it has been installed.

Outdoor Units

KRE

New range of cross airflow heat recovery units with up to 84% efficiency and total compatibility with Kaysun controls. Best price/perfomance unit.

Airflow (m^3/h) 500 1000 1500 2000

CROSS FLOW RECOVERY · FREECOOLING · DOUBLE STAGE FILTRATION · INDOOR INSTALLATION · ErP

KRE DX

Compact high-efficiency heat recovery units with DX direct expansion coil and Bioxigen.

Airflow (m^3/h) 500 1000 1500 2000 2300 3100

R-410A REFRIGERANT · CROSS FLOW RECOVERY · FREECOOLING · DOUBLE STAGE FILTRATION · PCO · INDOOR INSTALLATION · ErP

ERP PRO

Horizontal high-efficiency heat recovery units.

Airflow (m^3/h) 1200 2200 3200 4200

CROSS FLOW RECOVERY · FREECOOLING · DOUBLE STAGE FILTRATION · INDOOR INSTALLATION · MODBUS · ErP

AZURE

Horizontal high-efficiency heat recovery units.

Airflow (m^3/h) 500 700 1400 2200 3200

CROSS FLOW RECOVERY · FREECOOLING · INDOOR INSTALLATION · MODBUS · SOUND LEVEL REDUCTION POSSIBILITY · EUROVENT · ErP

EVO-R

Vertical high-efficiency heat recovery units with rotary and cross airflow recovery.

Airflow (m^3/h) 1400 2900 5500 9500 12500 15000

ROTARY RECOVERY · FREECOOLING · DOUBLE STAGE FILTRATION · OUTDOOR INSTALLATION · INDOOR INSTALLATION · MODBUS · EUROVENT · ErP

EVO M

Modular air conditioning units with 50 or 60 mm panel; multiple accessories and configurations. Eurovent certification with option to install wiring, and with factory adjustments.

Airflow (m^3/h) 1000 **to** 100000

EUROVENT · ErP

IAQ
Indoor Air Quality

The quality of the air we breathe is a factor that affects our lives in various aspects. The benefits of correct indoor air quality management may include increased concentration, a reduction in the sensation of tiredness, and even prevent the spread of bacteria, viruses and gaseous pollutants. Kaysun, in conjunction with its strategic partner Frigicoll, is once again intent on caring for their customers, by extending the range of products and accessories from the world of air purification and treatment in indoor environments, in order to confront the latest huge challenges that are putting global health and the cohesion of our society at risk.

KPU-350.1 and KPU-700.1 portable purifiers

Kaysun is launching on the market its "Plug & Play" option to protect all manner of environments covering an area of up to 85 m2. The two units have filtering systems featuring 5-stage H13 HEPA filters. In addition, the Premium KPU-700.1 equipment has a KPU-350.1 active purification system, which may be activated via the interface and can significantly increase purification efficiency.

Heat recovery units

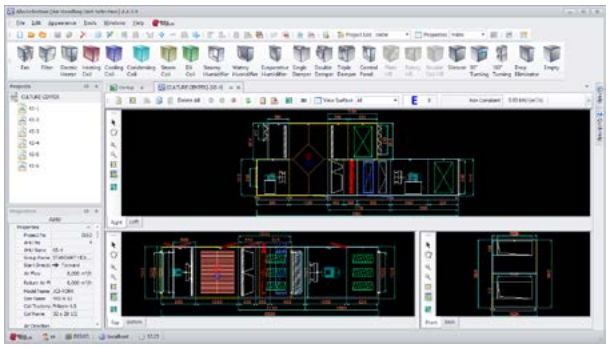
Frigicoll is extending its range of heat recovery units from 500 m3/h to 15,000 m3/h, in compliance with the current ErP directive, with efficiencies of up to 90% and an extensive catalogue of accessories. In addition, the HRV range allows integration with Kaysun s6 control systems.

VRF compatible

KRE units are fully compatible with VRF AMAZON central control systems; KCCT-64 IPS (A) or KCCT-384B IPS(B).

Air treatment units

Frigicoll, with the aim of providing full solutions, is providing its customers with a full range of AHUs, which are fully configurable based on the needs of each project. Featuring Eurovent certification and compliance with the ErP directive, they are available with 50 mm or 60 mm panels, together with the option to install wiring, and with factory adjustments.



Selection software

The entire range of Eurovent certified air recovery units and air handling units has a software tool for the most appropriate sizing and selection to suit the customer's needs.

Air purifiers KPU-350.1

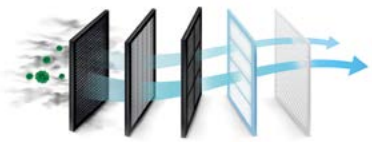
Kaysun knows how to care for the air we breathe. Introducing the new KPU-350.1 indoor air purifier which, thanks to its extremely contained consumption, guarantees that the air, in addition to being clean, is also sustainable and affordable.

Purification M

Ideal for rooms of up to 45 m².

HEPA filter

It eliminates up to 99.97% of particles.



Child lock

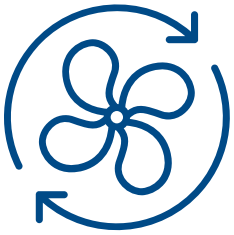
It prevents the little ones from changing the settings.

Smart Night mode

It activates automatically when it goes dark.

Multifunction

3 fan speeds and 2 running modes.



Change of filter

It tells you when the filter needs changing. The useful lifetime of the filter depends on the quality of air being treated. Kaysun recommends replacement every 6-12 months and the use of original replacement parts.

Air quality indicator

Intuitive air quality display.

Timer

So that the unit only works when necessary.

Model	KPU-350.1
Power supply; V/ph/Hz	220-240/1/50
Rated power; W	36
Dimensions (width/height/depth); mm	358/554/200
Suitable area; m^2	Up to 45
CADR; m^3/h	360
Bacterial elimination; %	> 99.97
Noise; dB	32-53
Fan speeds	3
Auto Mode	Yes
Timer	Yes
Air quality in real time	Yes
Filter typology	Pre-filter + HEPA H13 + Activated carbon

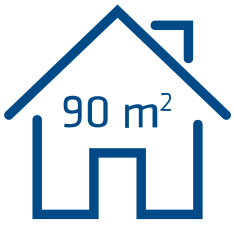
CADR: Volume of air treated for one hour.

Air purifiers KPU-700.1

Kaysun presents its new KPU-700.1 air purifier. It has been designed to guarantee maximum quality of the air we breathe, without neglecting the comfort of users in areas in which it is to be used. In addition, the extremely contained consumption of the equipment guarantees clean, sustainable, affordable air.

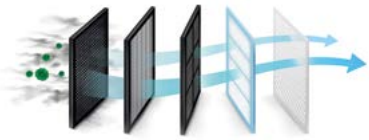
Purification XL

Ideal for rooms and halls from 45 to 85 m^2.



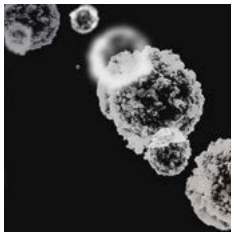
HEPA filter

It eliminates up to 99.97% of particles.



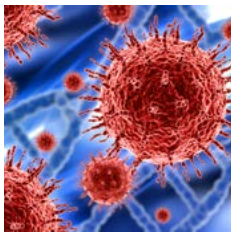
K-Ion Technology

It eliminates odours, dust, smoke and pollen.



Plasma technology

It reduces allergens, viruses and mould spores.



Extremely quiet

As silent as 30 dB (the noise level of leaves blowing in a country breeze).

Smart Night mode

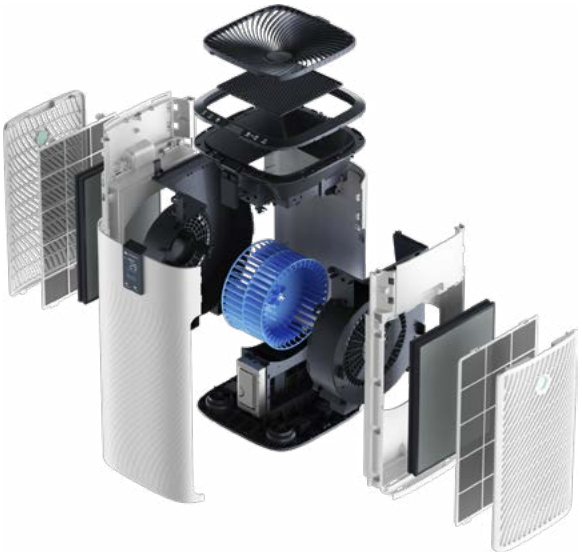
It activates automatically when it goes dark.

Change of filter

It tells you when the filter needs changing. The useful lifetime of the filter depends on the quality of air being treated. Kaysun recommends replacement every 6-12 months and the use of original replacement parts.

Air quality indicator

Intuitive air quality display.



Model	KPU-700.1
Power supply; V/ph/Hz	220-240/1/50
Rated power; W	45
Dimensions (width/height/depth); mm	360/710/360
Suitable area; m^2	45-85
CADR; m^3/h	740
Bacterial elimination; %	> 99.97
Noise; dB	30-57
Fan speeds	3
ION Purification	Yes (anions BOOST mode)
Plasma Purification	Yes (K-Ion Technology)
Auto Mode	Yes
Silence Mode	Yes
Turbo Mode	Yes
Air quality in real time	Yes
Filter typology	Pre-filter + HEPA H13 + Activated carbon

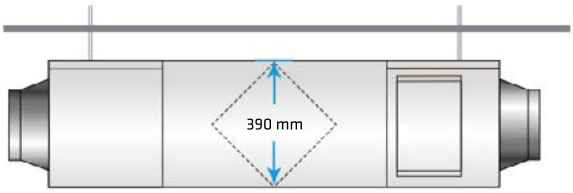
CADR: Volume of air treated for one hour.

KRE

New range of cross-flow heat recovery units providing up to 84% efficiency, featuring F7 filter on discharge and M5 filter on air return as standard, and airflows from 500 to 2,000 m^3/h. In compliance with ErP 2021 directive, KRE units provide fresh air and significant energy savings in housing, commercial premises, offices, catering facilities, public buildings and schools.

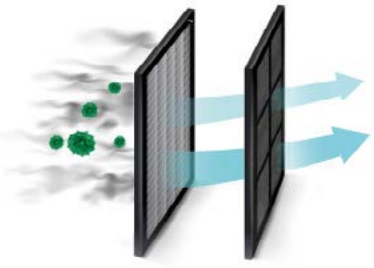
Compact design

Thanks to their reduced height and low sound levels they are designed for horizontal and indoor installation.



Compatible with VRF

The heat recovery unit is fully compatible with a centralised controller system for VRF; KCCT-384B IPS (A) or KCCT-64 IPS (A).



High air quality

F7 filtering stages in discharge, and M5 in air return.

Other important Features

- 3-speed DC fans
- Bypass for freecooling
- Remote controller included
- Discharge filter pressure gauge
- Modbus output

KCT-03 SRPS (A)
Included

CROSS FLOW RECOVERY | FREECOOLING | DOUBLE STAGE FILTRATION | INDOOR INSTALLATION | ErP

Heat recovery model	KRE D500	KRE D1000	KRE D1500	KRE D2000
Heating efficiency; EN308: 5°C outdoors / 25°C indoors; %	77	75	84	79
No. speeds	3	3	3	3
Fan type	DC	DC	DC	DC
Air flow rated; m^3/h	375	1000	1500	2000
Maximum air flow; m^3/h	500	1000	1500	2000
Sound pressure rated; dB(A)	36.5	50.2	52.5	54.1
Rated useful static pressure in supply; Pa	90	90	120	120
Max. useful static pressure in supply; Pa	65	110	150	160
Width / Height / Depth; mm	1106 / 390 / 1311	1526 / 390 / 1311	1375 / 615 / 1740	1575 / 685 / 1811
Installed weight; kg	76	90	181	208
Power supply; V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Filtration stages Supply	M5+F7	M5+F7	M5+F7	M5+F7
Filtration stages Return	M5	M5	M5	M5
Temperature min. / max.; °C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C

Accessories
CO2 sensor standard
Filters M5 (ISO 16890 ePM10 50%)
Filters F7 (ISO 16890 ePM1 65%)
Filters F9 (ISO 16890 ePM1 90%)
Filters F9 (ISO 16890 ePM1 90%)

Preliminary data.
Heating efficiency EN308: According to regulation UE1253/2014, at nominal performance, with temperature and humidity conditions according to EN308.
Air flow rated. Rated useful static pressure in supply. Filtration stages: Including filters.
Sound pressure rated: Sound pressure level at 1 m from the driven unit and nominal flow.
Working range min./max.: Std unit.

KRE DX

New range of high-efficiency cross airflow heat recovery units that incorporate a direct expansion coil to overcome part of the fan charge. With twin G3 + F9 filter on discharge, for flows from 500 to 3,100 m^3/h. In compliance with the ErP 2021 directive, they allow the renewal and filtering of air with high energy savings. Ideal for commercial, office, catering, public building and school applications.

DX direct expansion coil

They include the electronics and expansion valve to connect to the Kaysun VRF system easily, while ensuring reliable running.

Compatible with VRF

The heat recovery unit is fully compatible with a centralised controller system for VRF; KCCT-384B IPS (A) or KCCT-64 IPS (A).

PCO

The 500 and 1,000 m^3/h units include Bioxigen as standard; optional for superior models.

Other important Features

- DC fans
- Bypass for freecooling
- Remote controller included
- Discharge filter pressure gauge
- Modbus output
- Multiple accessories

KCT-03 SRPS (A)
Included

R-410A REFRIGERANT | CROSS FLOW RECOVERY | FREECOOLING | DOUBLE STAGE FILTRATION | PCO | INDOOR INSTALLATION | ErP

Heat recovery model	KRE DX D500	KRE DX D1000	KRE DX D1500	KRE DX D2300	KRE DX D3100
Total Power (cooling/heating)	3 / 2.5	5.8 / 5.2	9.9 / 8.6	14.2 / 12.2	19.3 / 17.1
Temperature approx. in supply (cooling); °C	15.90°C / 28°C	16.20°C / 28.50°C	15.10°C / 30°C	15.70°C / 29°C	15.60°C / 29°C
Heating efficiency; EN308: 5°C outdoors / 25°C indoors; %	76	76	73	73	73
Expansion valve	Electronic	Electronic	Electronic	Electronic	Electronic
No. speeds	3	3	3	3	3
Fan type	EC	EC	EC	EC	EC
Air flow rated; m^3/h	500	1000	1500	2300	3100
Sound pressure rated; dB(A)	39	43	53	59	58
Rated useful static pressure in supply; Pa	90	115	190	210	190
Width / Height / Depth; mm	1450 / 270 / 904	1750 / 388 / 1216	2536 / 670 / 1290	2536 / 670 / 1290	2635 / 670 / 1400
Installed weight; kg	90	105	230	250	270
Power supply; V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Filtration stages Supply	G3+F9	G3+F9	F7	F7	F7
Filtration stages Return	G3	G3	M5	M5	M5
Gas DX battery	R-410A	R-410A	R-410A	R-410A	R-410A
Temperature min. / max.; °C	-5°C / 40°C	-5°C / 40°C	-5°C / 45°C	-5°C / 45°C	-5°C / 45°C

Accessories
Electrical resistance prior to recovery unit

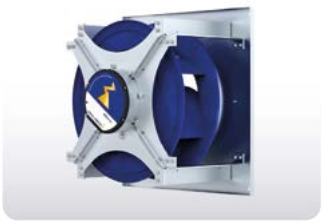
Total cooling power. Temperature approx. in supply (cooling): Air inlet in DX coil: 13°C BS 40% RH, condensing at 40°C.
Total heating power. Temperature approx. in supply (heating): Air inlet in DX coil: 28.5°C BS, 50%, evaporating at 7°C.
Heating efficiency EN308: According to regulation UE1253/2014, at nominal performance, with temperature and humidity conditions according to EN308.
Air flow rated. Rated useful static pressure in supply. Filtration stages: Including filters.
Sound pressure rated: Sound pressure level at 1 m from the driven unit and nominal flow.
Working range min./max.: Std unit.

ERP PRO

The ERP PRO heat recovery units achieve efficient air renewal in spaces, while providing fresh, clean, renewed air. The ERP PRO heat recovery units use a cross airflow exchanger and achieve great savings in energy, in compliance with the ECODESIGN 2018 standard. These units also feature reduced consumption thanks to their EC fans, both in extraction and discharge.

Filters

In order to obtain cleaner air, the heat recovery units have an M6 filter as standard for extraction and F7 for air discharge. There is also the option to use F8 and F9 filters, or an additional filter on the air discharge.



EC fans

The EC fans used in the ERP PRO heat recovery unit for air discharge and extraction, stand out due to their high energy efficiency and the possibility to control the two fans independently.

SENSO control

The AERA controller provides a wide range of alternatives for the regulation and control of the heat recovery unit. As an optional extra it is available as a module for installation on discharge with water or DX direct expansion coil.

Other important Features

- Ventilation on demand (VOD); through the installation of a CO_2 sensor it is possible to control the ventilation of the space based on the quality of the indoor unit.
- True information regarding the state of the filters and possible faults in the heat recovery unit.
- The unit has a bypass (freecooling) governed by the SENSO controller.
- The heat recovery unit allows the Modbus protocol.

SENSO
CONTROLLER
Included

CROSS FLOW RECOVERY | FREECOOLING | DOUBLE STAGE FILTRATION | INDOOR INSTALLATION | MODBUS | ErP

Heat recovery model	ERO PRO 1200	ERO PRO 2200	ERO PRO 3200	ERO PRO 4200
Heating efficiency; EN308: 5°C outdoors / 25°C indoors; %	73	73	73	73
Fan type	EC	EC	EC	EC
Maximum air flow; m^3/h	1170	2000	3200	4200
Sound pressure rated; dB(A)	49	49	53	48
Max. useful static pressure in supply; Pa	350	250	250	250
Width / Height / Depth; mm	1752 / 500 / 1102	1990 / 580 / 1232	2500 / 685 / 1600	2500 / 815 / 1600
Installed weight; kg	148	195	406	420
Power supply; V/ph/Hz	230/1/50	230/1/50	230/1/50	400/3/50
Panel; mm	10	10	25	25
Filtration stages Supply	F7	F7	F7	F7
Filtration stages Return	M6	M6	M6	M6
Temperature min. / max.; °C	-5°C / 46°C	-5°C / 46°C	-5°C / 46°C	-5°C / 46°C

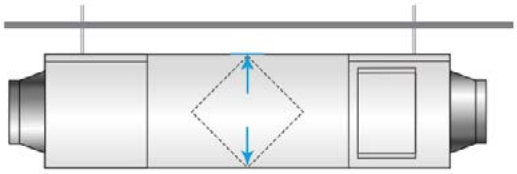
Accessories
Filters M6 (ISO 16890 ePM2.5 50%)
Filters F7 (ISO 16890 ePM1 65%)
Filters F8 (ISO 16890 ePM1 80%)
Electrical resistance prior to recovery unit
Water coil* (separate module)
Expansion coil (separate module)
Controller SENSO+ (manage H2O or DX coil)
CO^2 sensor

* Valve included

Heating efficiency EN308: According to regulation UE1253/2014, at nominal performance, with temperature and humidity conditions according to EN308.
Air flow rated. Max. useful static pressure in supply. Filtration stages: Including filters.
Sound pressure rated: Sound pressure level at 1,5 m from the driven unit and nominal flow.
Installed weight. Working range min./max.: Std unit and with RH < 80% (with PREH down to -12°C).
Filtration stages: Possibility of mounting double stage of impulsion filtration (consult with Technical Department).

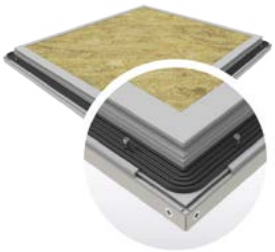
AZURE

The AZURE range is Frigicoll's most efficient unit and achieves an efficiency of 93%. These units are equipped with low-consumption EC fans. Thanks to the SENSO PLUS controller, it is possible to define 3 working speeds for the two fans in order to achieve exceptional control over the unit and to be able to adapt the heat recovery unit to the system in the best possible way.



Compact design

Ideal for installations in false ceiling with little available height < 4 mm for flows < 1,400 m^3/h.



50 mm panel

High degree of acoustic and thermal insulation thanks to the sandwich panel with rock wool insulation.

SENSO PLUS controller

The SENSO PLUS controller provides a wide range of alternatives for the regulation and control of the heat recovery unit. Some of the most significant features are the weekly programmer, information on filter status, control of element preheating or the creation of high or low pressure within the space.

Water or DX direct expansion coil

As an optional extra it is available as a module for installation on discharge with water or DX direct expansion coil.

Other important Features

- Ventilation on demand (VOD); through the installation of a CO_2 sensor it is possible to control the ventilation of the space based on the quality of the indoor air.
- The unit incorporates an F7 filter for air discharge and M6 filter for extraction as standard, with the option to use F8 and F9 filters, or an additional filter on the air discharge.
- The SENSO PLUS controller reports all possible faults in the heat recovery unit.
- Full control over the unit via AeroCloud web page.

SENSO PLUS
CONTROLLER
Included

CROSS FLOW RECOVERY | FREECOOLING | INDOOR INSTALLATION | MODBUS | SOUND LEVEL REDUCTION POSSIBILITY | EUROVENT | ErP

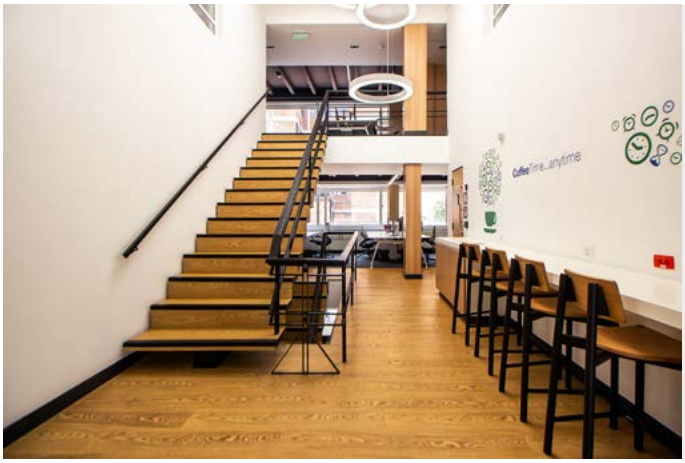
Heat recovery model	AZURE 500	AZURE 700	AZURE 1400	AZURE 2200	AZURE 3200
Heating efficiency; EN308: 5°C outdoors / 25°C indoors; %	82	82	81	82	83
Fan type	EC	EC	EC	EC	EC
Maximum air flow; m^3/h	500	700	1400	2200	3200
Sound pressure rated; dB(A)	43	41	46	47	52
Max. useful static pressure in supply; Pa	300	300	300	300	300
Width / Height / Depth; mm	1500 / 359 / 820	1550 / 361 / 995	1675 / 402 / 1295	1900 / 485 / 1665	2050 / 569 / 1915
Installed weight; kg	130	155	200	285	370
Power supply; V/ph/Hz	230/1/50	400/3/50	400/3/50	400/3/50	400/3/50
Panel; mm	50	50	50	50	50
Filtration stages Supply	F7	F7	F7	F7	F7
Filtration stages Return	M6	M6	M6	M6	M6
Temperature min. / max.; °C	-5°C / 50°C	-5°C / 50°C	-5°C / 50°C	-5°C / 50°C	-5°C / 50°C

ACCESSORIES
Filters M6 (ISO 16890 ePM2.5 50%)
Filters F7 (ISO 16890 ePM1 65%)
Filters F8 (ISO 16890 ePM1 80%)
Filters F9 (ISO 16890 ePM1 90%)
Electrical resistance prior to recovery unit
Hot water coil*
Water coil* (separate module)
Expansion coil (separate module)
Controller EVO Touch
CO^2 sensor
Variable flow operation VAV

* Valve included

Heating efficiency EN308: According to regulation UE1253/2014, at nominal performance, with temperature and humidity conditions according to EN308.
Air flow rated. Max. useful static pressure in supply. Filtration stages: Including filters.
Sound pressure rated: Sound pressure level at 1 m from the driven unit and nominal flow.
Installed weight. Working range min./max.: Std unit and with RH < 80% (with PREH down to -20°C).

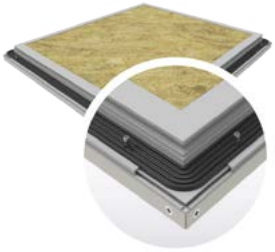
EVO-R



The high-efficiency EVO-R enthalpy heat recovery units can achieve high airflows of up to 17,600 m^3/h. Low sound level, thanks to the double insulating panel on the unit and high energy efficiency. All the units have been designed to meet the new ECODESIGN 2018 regulations.

Rotary

High-efficiency rotary heat recovery with enthalpy option through EVO R S absorption rotor.



Sheath design

The unit's panels feature high thermal resistance and stand out for their low sound level. Units made from two metal plates joined by a specially-designed PVC frame.

SENSO PLUS controller

The SENSO PLUS controller provides a wide range of alternatives for the regulation and control of the heat recovery unit. Some of the most significant features are the weekly programmer, information on filter status, control of element preheating or the creation of high or low pressure within the space.

Water or DX direct expansion coil

As an optional, water or DX direct expansion coil, is available as a module to install on discharge.

Other important Features

- Ventilation on demand (VOD); through the installation of a CO_2 sensor it is possible to control the ventilation of the space based on the quality of the indoor air.
- The unit incorporates an F7 filter for air discharge and M6 filter for extraction as standard, with the option to use F8 and F9 filters, or an additional filter on the air discharge.
- The SENSO PLUS controller reports all possible faults in the heat recovery unit.
- The heat recovery unit permits the Modbus, EXOline and BACnet protocols.
- Full control over the unit via AeroCloud web page.
- Module for air recirculation.
- Preheating kit for extreme climates < -5°C.
- Ready for outdoor installation.

SENSO PLUS
CONTROLLER
Included

ROTARY RECOVERY | FREECOOLING | DOUBLE STAGE FILTRATION | OUTDOOR INSTALLATION | INDOOR INSTALLATION | MODBUS | EUROVENT | ErP

Heat recovery model	EVO-R 15	EVO-R 30	EVO-R 60	EVO-R 95	EVO-R 120	EVO-R 150
Heating efficiency; EN308: 5°C outdoors / 25°C indoors; %	79	82	81	81	81	79
Fan type	EC	EC	EC	EC	EC	EC
Air flow rated; m^3/h	2900	15000	1400	9500	5500	12500
Sound pressure rated; dB(A)	56	59	48	56	53	57
Max. useful static pressure in supply; Pa	300	350	250	350	350	350
Width / Height / Depth; mm	1700 / 1500 / 970	2535 / 2645 / 2110	1700 / 1295 / 760	2315 / 2245 / 1710	2015 / 1895 / 590	2450 / 2400 / 1860
Installed weight; kg	340	1390	205	840	590	1095
Power supply; V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Panel; mm	50	50	50	50	50	50
Filtration stages Supply	F7	F7	F7	F7	F7	F7
Filtration stages Return	M5	M5	M5	M5	M5	M5
Temperature min. / max.; °C	-5°C / 50°C	-5°C / 50°C	-5°C / 50°C	-5°C / 50°C	-5°C / 50°C	-5°C / 50°C

Accessories
Rotary absorption recovery unit EVO-R/SO
Compact filters M5 (ISO 16890 ePM10 50%)
Filters M5 (ISO 16890 ePM10 50%)
Filters F7 (ISO 16890 ePM1 65%)
Filters F9 (ISO 16890 ePM1 90%)
Recirculation damper
Electrical resistance prior to recovery unit
Hot water coil*
Water coil* (separate module)
Expansion coil (separate module)
Controller EVO Touch
CO2 sensor
Variable flow operation VAV
Outdoor installation

* Valve included

Heating efficiency EN308: According to regulation UE1253/2014, at nominal performance, with temperature and humidity conditions according to EN308.
Air flow rated. Max. useful static pressure in supply. Filtration stages: Including filters.
Sound pressure rated: Sound pressure level at 1,5 m from the driven unit and nominal flow.
Installed weight. Working range min./max.: Std unit and with RH < 80% (with PREH down to -12°C).
Filtration stages: Possibility of mounting double stage of impulsion filtration (consult with Technical Department).

EVO-M

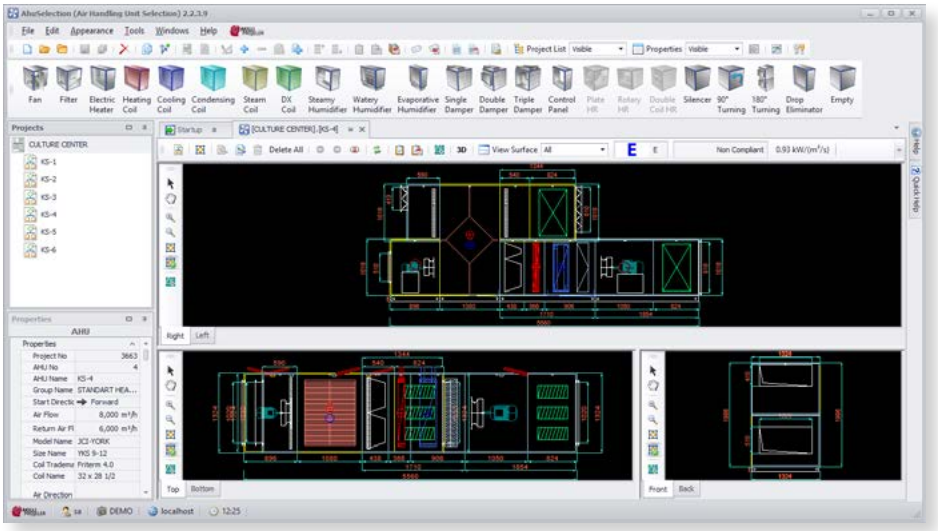
General Characteristics

EVO Modular air handling units are designed to have features that are different from those for similar heating, cooling and ventilation requirements in indoor areas. The casing structure is manufactured with special PVC frame design and without thermal bridging. EVO Modular Air Handling Units are manufactured with AL profile framework, rock wool insulated double wall panels, specially designed gasket for high sealing, VDI 6022 suitable internal structure and drain pan, special filter frame, adjustable hinges and locks. The inner surfaces of the panels are made of Aluzinc coated with Aluminium/Zinc coating with high corrosion resistance and the outer surface is made of painted sheet with polyester. The units achieve high energy efficiency using the latest technology components. Reports can be obtained by using web based and extremely easy to use selection program and selections can be made with Eurovent criterias.

The components such as fan, exchanger, filter, battery, humidifier are selected in the most accurate and optimum conditions and the unit is designed accordingly. It can be controlled with an advanced user interface automation system which can be optionally controlled over the Internet.

Selection Software

The air handling units selection software allows to size the units and to have immediately the complete technical offer with executive drawings, technical data sheets and a list of main components and materials used.



Accessories

The air treatment units of the EVO M series are available with a vast range of accessories that can be selected directly with the selection software. A few of the most common accessories are listed below:

- Weatherproof roof and control protection technical compartment
- Weatherproof covers on the external air inlets and outlets
- Safety device for moving components
- Spotlights and viewing panel for inspection
- Inverters on the fan motors
- Other accessories not found in the basic selection can be assessed on request

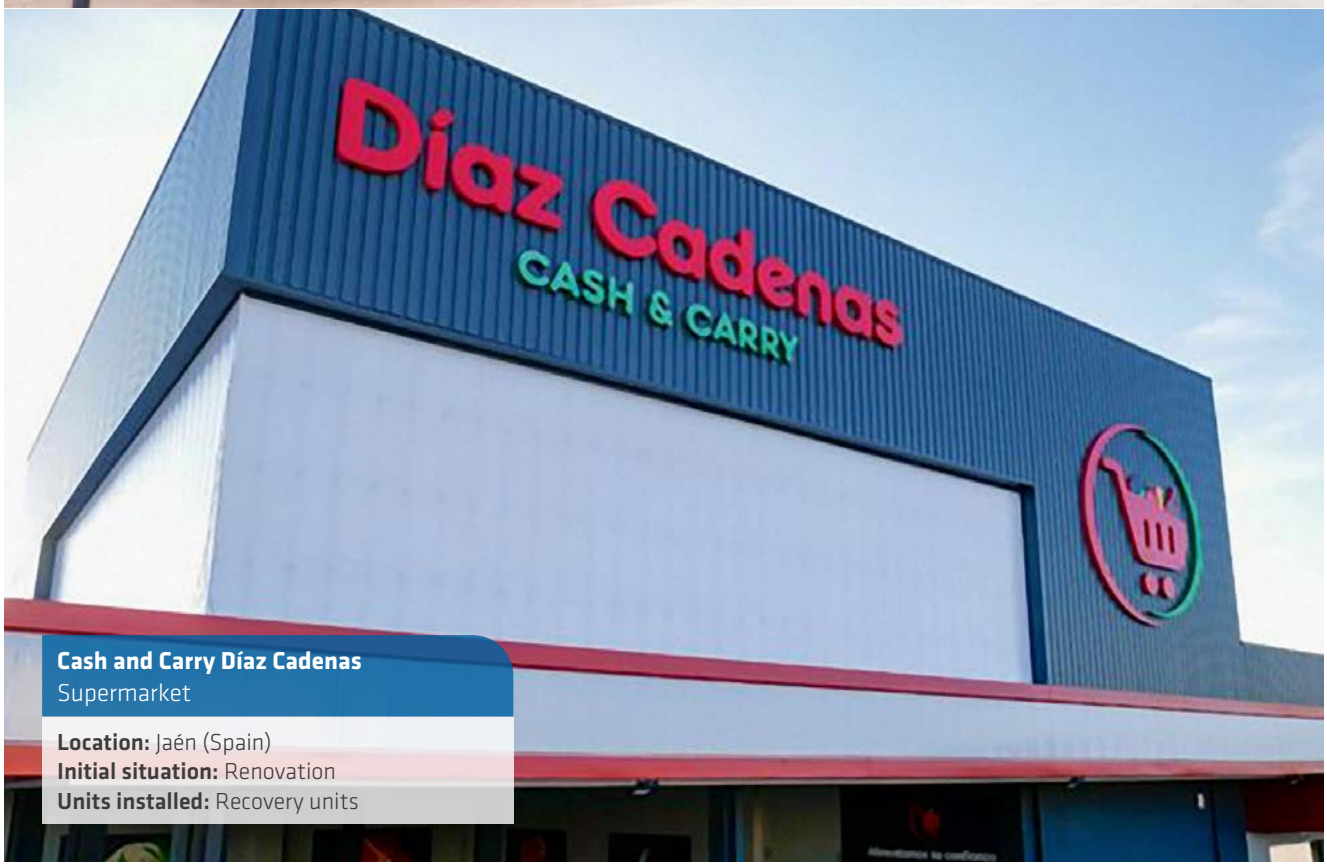
References

Key Installations

Indoor Air Quality (IAQ) has become an increasingly important issue for building owners, managers and occupants. To increase IAQ, Kaysun introduces a complete range of solutions suitable to all needs. Small portable purifiers, active solutions suitable for advanced installations, such as PCO and Puro air kits, and a renovated heat recovery systems line-up.

Laboratorios Rovi
Laboratory

Location: Granada (Spain)
Initial situation: Renovation
Units installed: Recovery units



Cash and Carry Díaz Cadenas
Supermarket

Location: Jaén (Spain)
Initial situation: Renovation
Units installed: Recovery units

Conditions of sale

1.- Orders

An order is considered to be the receipt of a written document (via mail, Fax or regular mail which includes the description of the materials requested, order reference, delivery time requested, expected place of delivery and any data that may be required for the successful confirmation in the process of accepting the invoice.
For telephone orders, delivery of the materials shall be subject to receipt of the written confirmation of the order with the data described above.
For orders of materials or specially manufactured equipment not generally available in stock, a deposit of 30% of the total amount of the final price of the equipment will be required as a prerequisite to its manufacture.

2.- Order cancellation

Only those cancellations will be accepted that have been notified in writing prior to deliver the goods.
Under no circumstances may orders be cancelled for materials or equipment that are specially manufactured and not generally in stock. Additional the buyer waives the right to a refund of the 30% of the total amount of the final price of the equipment invoiced prior to its manufacture.

3.- Prices

Prices do not include value-added taxes (VAT), RAE for machines of less than 12kW or any other tax in force and will always will be for the buyer's account.

4.- Delivery time

The buyer shall indicate the delivery time for the materials that he requests. When any of the materials are not available from stock, a forecast delivery date will be provided for guidance and in no case will a failure to meet this be the cause of a claim on the part of the buyer.

5.- Delivery conditions

Standard incoterms would be Ex-Works Vilarodona. Other conditions to be agreed individually.

Deliveries of the goods by ourselves cannot be at a specific time of day, such deliveries being for the account of the buyer by any means he deems appropriate.

Complaints about the material or equipment delivered with defects arising from the transport shall be made within 24 Hours of receipt. Claims made after this will be exempt.

6.- Returns

The buyer may request return of those materials and equipment for reasons beyond his will provided that the packaging and operation are in a perfect condition for approval by Frigicoll SA and subsequent return of the same after written and signed acceptance and return number provided.

A written and numbered authorization from Frigicoll is essential for receipt of the goods in our facilities and the costs of carriage for the aforementioned return will always be for the account of the buyer. A demerit of 15% of the value of the sale will be applied.

If after inspection of the material does not meet these requirements there will be a devaluation from your payment, which may be up to the total original invoice value of your order.

7.- Guarantees

The equipment supplied will have a minimum of 3 years garantee against manufacturing defects provided that its installation and use is appropriate, and in no case can faults be attributable to the guarantee that arise from improper installation, abnormal use, inappropriate electrical voltage, faulty maintenance, use of materials not approved by Frigicoll SA, and manipulation by people not approved for this purpose. The guarantee will cover the replacement of parts and components in poor condition by new parts, but in no case the labour required for that purpose.

8.- Jurisdiction

The general conditions of sale shall be construed as being accepted by the buyer at time of ordering.
In the case of any disagreement that may arise between the parties, these expressly commit themselves to the courts of Barcelona with express waiver of any other jurisdiction that might apply.

9.- Specifications and images

The manufacturer reserves the right to change the specifications and images of the product without prior notice.

10.- Data

All the data quoted in this catalogue are subject to change without prior notice, including the possible typographical errors.

Notes

Notes

Kaysun
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Inspiration, Innovation, Evolution

Kaysun
by frigicoll

Main Office
Blasco de Garay, 4-6
08960 Sant Just Desvern
(Barcelona)
Phone: +34 93 480 33 22

MADRID
Senda Galiana, 1
Polígono Industrial Coslada
28820 Coslada (Madrid)
Phone: +34 91 669 9701
madrid@frigicoll.es

www.frigicoll.es
www.kaysun.es

Kaysun participates in the EUROVENT certification program. The products correspond to those listed into the EUROVENT certified products directory.

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