

Minichillers Full DC Inverter R-32



KCCHT-04
Standard

Technical documentation	Download
User Manual	PDF
Controller Manual	PDF
Declaration of Conformity	PDF
Dimensions	DWG
Installation diagrams	PDF



SMART GRID
READY



R-32
REFRIGERANT



DC INVERTER
COMPRESSOR



HYDRAULIC KIT



Wi-Fi



MODBUS



MODULAR

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
Nsc		201	205	200	200	201	201
Heating capacity rated	kW	6.6	8.5	10.1	12.5	14.5	16.2
COP		4.00	3.80	3.65	3.70	3.55	3.45
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+++
Nsh		202	204	202	200	193	191
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
t CO ₂ eq	tCO ₂	0.88	0.88	0.88	1.22	1.22	1.22
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
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	120	106
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
Max. intensity	A	18	18	18	30	14	30
Water pipe connections	inch	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Water flow rated	m ³ /h	0.9	1.3	1.5	2	2.2	2.4
Volume of expansion tank	l	5	5	5	5	5	5
Available pressure	kPa	90	90	90	90	90	90

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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
Nsc		201	202	203
Heating capacity rated	kW	12.5	14.5	16.2
COP		3.70	3.55	3.45
SCOP average zone, Water 35°C - Energy class		5.08 - A+++	4.88 - A+++	4.84 - A+++
Nsh		200	193	191
Compressor type		Rotary Inverter	Rotary Inverter	Rotary Inverter
No. compressor		1	1	1
Type refrigerant		R-32	R-32	R-32
t CO ₂ eq	tCO ₂	1.22	1.22	1.22
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)	66	74	74
Width / Height / Depth	mm	1040 / 865 / 3310	1040 / 865 / 410	1040 / 865 / 410
Net weight	kg	0	120	120
Power supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Max. intensity	A	14	30	14
Water pipe connections	inch	1 1/4"	1 1/4"	1 1/4"
Water flow rated	m ³ /h	2	2.2	2.4
Volume of expansion tank	l	5	5	5
Available pressure	kPa	90	90	90

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.

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