

# Modular Full DC Inverter Heat Pump



KCCHT-06 MODBUS  
Standard

Technical documentation	Download
User Manual	<a href="#">PDF</a>
Controller Manual	<a href="#">PDF</a>
Declaration of Conformity	<a href="#">PDF</a>
Dimensions	<a href="#">DWG</a>
Installation diagrams	<a href="#">PDF</a>



Basic modules

Model		KEM-HT-50 DRSS	KEM-HT-65 DRSS	KEM-HT-75 DRSS	KEM-HT-110 DRSS	KEM-HT-140 DRSS
Cooling capacity rated	kW	50	57	70	100	130
Cooling input rated	kW	15.2	19.0	26.8	32.8	50.0
EER		3.31	3.00	2.61	3.05	2.60
SEER		5.00	5.00	5.00	4.80	4.80
Nsc		197	197	197	189	189
Heating capacity rated	kW	50	65	75	110	140
Heating input rated	kW	13.2	18.3	22.1	29.9	44.7
COP		3.60	3.55	3.40	3.68	3.13
SCOP average zone, Water 35°C - Energy class		4.50 - A+++	4.50 - A+++	4.50 - A+++	4.25 - A++	4.25 - A++
Nsh		177	177	177	167	167
Compressor type		EVI Scroll Inverter	EVI Scroll Inverter	EVI Scroll Inverter	EVI Scroll Inverter	EVI Scroll Inverter
No. compressor		1	1	1	2	2
Type refrigerant		R-32	R-32	R-32	R-32	R-32
t CO <sub>2</sub> eq	tCO <sub>2</sub>	6.08	6.08	6.08	10.46	10.46
Refrigerant charge	kg	9	9	9	11.5 / 4.0	11.5 / 4.0
No. fans		2	2	2	2	2
Air flow	m <sup>3</sup> /h	22000	22000	28500	32500	50000
Sound pressure	dB(A)	64	64	69	64	73
Width / Height / Depth	mm	960 / 1770 / 2000	960 / 1770 / 2000	960 / 1770 / 2000	1135 / 2300 / 2220	1135 / 2300 / 2220
Net weight	kg	440	440	440	670	670
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
Max. intensity	A	46	46	46	90	90
Water pipe connections	inch	2"	2"	2"	2 1/2"	2 1/2"
Water flow rated	m <sup>3</sup> /h	8.6	9.8	12.0	17.2	22.36

**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.