

Subtype Hi-Therma Monobloc 4kW

Certificate Holder	Qingdao Hisense Hitachi Air-conditioning Systems Co.,Ltd.
Address	Qianwangang Road
ZIP	266555
City	Qingdao, Shandong
Country	CN
Certification Body	BRE Global Limited
Subtype title	Hi-Therma Monobloc 4kW
Registration number	041-K021-03
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.17 kg
Certification Date	01.03.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model AHZ-044HCDS1

Model name	AHZ-044HCDS1
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.40 kW	4.40 kW
El input	0.86 kW	1.47 kW
COP	5.10	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	204 %	136 %
Prated	4.61 kW	4.09 kW
SCOP	5.17	3.47
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.05 kW	3.60 kW
COP Tj = -7°C	3.26	2.08
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.48 kW	2.26 kW
COP Tj = +2°C	5.02	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.67 kW	1.49 kW

COP Tj = +7°C	6.70	4.33
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.14 kW	1.02 kW
COP Tj = 12°C	8.74	6.66
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.05 kW	3.60 kW
COP Tj = Tbiv	3.26	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.56 kW	3.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	7 W	7 W
PTO	8 W	8 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.05 kW	0.48 kW
Annual energy consumption Qhe	1830 kWh	2425 kWh