

Subtype Hi-Therma Smart M 5

Certificate Holder	Qingdao Hisense Hitachi Air-conditioning Systems Co.,Ltd.
Address	Qianwangang Road
ZIP	266555
City	Qingdao, Shandong
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Hi-Therma Smart M 5
Registration number	011-1W0967
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	14.02.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

Model AHZ-050HCPB1A

Model name	AHZ-050HCPB1A
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	5.00 kW	5.00 kW
EI input	0.96 kW	1.59 kW
COP	5.20	3.15

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	200 %	149 %
Prated	4.90 kW	4.90 kW
SCOP	5.08	3.81
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.41 kW	4.37 kW
COP Tj = -7°C	3.18	2.44
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.66 kW	2.65 kW
COP Tj = +2°C	5.02	3.68
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.68 kW	1.75 kW

COP Tj = +7°C	6.42	4.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.72 kW	1.62 kW
COP Tj = 12°C	8.69	6.79
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.41 kW	4.37 kW
COP Tj = Tbiv	3.18	2.44
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.99 kW	4.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.12
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1993 kWh	2658 kWh