

Subtype Hi-Therma Smart M 8 10

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 8 10
Registration number	011-1W0968
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.98 kg
Certification Date	14.02.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

**Model AHZ-080HCPB1A**

Model name	AHZ-080HCPB1A
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	8.00 kW	8.00 kW
El input	1.57 kW	2.50 kW
COP	5.10	3.20

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	53 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	199 %	154 %
Prated	7.80 kW	7.80 kW
SCOP	5.05	3.93
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.97 kW	6.92 kW
COP Tj = -7°C	3.29	2.43
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.26 kW	4.21 kW
COP Tj = +2°C	4.70	3.83
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.69 kW	3.01 kW

COP Tj = +7°C	7.04	5.24
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.39 kW	2.38 kW
COP Tj = 12°C	8.35	6.42
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.97 kW	6.92 kW
COP Tj = Tbiv	3.29	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.85 kW	7.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.16
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	3193 kWh	4105 kWh

**Model AHZ-100HCPB1A**

Model name	AHZ-100HCPB1A
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	10.00 kW	10.00 kW
El input	2.08 kW	3.23 kW
COP	4.80	3.10

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	54 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	197 %	149 %
Prated	8.80 kW	8.90 kW
SCOP	5.00	3.81
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.86 kW	7.94 kW
COP Tj = -7°C	3.12	2.36
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.61 kW	4.77 kW
COP Tj = +2°C	4.69	3.67
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.00 kW	3.10 kW

COP Tj = +7°C	7.04	5.14
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.51 kW	2.22 kW
COP Tj = 12°C	8.62	6.25
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.86 kW	7.94 kW
COP Tj = Tbiv	3.12	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.62 kW	8.66 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	2.02
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	0.18 kW	0.24 kW
Annual energy consumption Qhe	3636 kWh	4827 kWh