Subtype Hi-Therma Smart Hydro 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 Hydro 8 10
Registration number	011-1W1065
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.98 kg
Certification Date	03.07.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	Intertek Testing Services Shenzhen LTD. Guangzhou Branch, CN

Model AHW-080HCPB1/AHM-100HCWBAA	
Model name	AHW-080HCPB1/AHM-100HCWBAA
Application	Heating (medium temp)
Units	Indoor, 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 indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	55 dB(A)	54 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	197 %	146 %
Prated	7.80 kW	7.70 kW
SCOP	5.01	3.73
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.82 kW
COP Tj = -7°C	3.20	2.34
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.34 kW	4.23 kW
COP Tj = +2°C	4.79	3.61
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.75 kW	2.79 kW
COP Tj = +7°C	6.70	4.89
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.47 kW	2.32 kW
COP Tj = 12°C	8.29	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.98 kW	6.82 kW
COP Tj = Tbiv	3.20	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.89 kW	7.69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.06
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	0.01 kW
Annual energy consumption Qhe	3255 kWh	4274 kWh

Model AHW-100HCPB1/AHM-100HCWBAA	
Model name	AHW-100HCPB1/AHM-100HCWBAA
Application	Heating (medium temp)
Units	Indoor, 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 indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	56 dB(A)	55 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	192 %	142 %
Prated	8.70 kW	8.70 kW
SCOP	4.89	3.61
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.72 kW	7.70 kW
COP Tj = -7°C	3.10	2.23
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.47 kW	4.62 kW
COP Tj = +2°C	4.67	3.41
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.98 kW	3.27 kW
COP Tj = +7°C	6.61	4.99
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.28 kW	2.39 kW
COP Tj = 12°C	7.95	6.53
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.72 kW	7.70 kW
COP Tj = Tbiv	3.10	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.30 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.96
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	0.40 kW	0.12 kW
Annual energy consumption Qhe	3690 kWh	4976 kWh