Subtype Hi-Therma Smart Hydro 8 10 Integra

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 Integra
Registration number	011-1W1066
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/AHS-100HCWBAA-23

Model name	AHW-080HCPB1/AHS-100HCWBAA-23
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	126 %
COP	3.08
Heating up time	2:13 h:min
Standby power input	25.5 W
Reference hot water temperature	46.8 °C
Mixed water at 40°C	245 l

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/AHS-100HCWBAA-23

Model name	AHW-100HCPB1/AHS-100HCWBAA-23
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	126 %
COP	3.08
Heating up time	2:13 h:min
Standby power input	25.5 W
Reference hot water temperature	46.8 °C
Mixed water at 40°C	245 l

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