

Subtype Hi-Therma Smart Hydro 5 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 5 Integra
Registration number	011-1W1064
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 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-050HCPB1/AHS-100HCWBAA-23**

Model name	AHW-050HCPB1/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 $\eta_{DHW}$	124 %
COP	3.10
Heating up time	2:06 h:min
Standby power input	26.1 W
Reference hot water temperature	46.5 °C
Mixed water at 40°C	241 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	5.00 kW	5.00 kW
El input	0.96 kW	1.59 kW
COP	5.20	3.15

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	53 dB(A)	53 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_S$	200 %	147 %

Prated	4.90 kW	4.90 kW
SCOP	5.08	3.75
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.39 kW	4.34 kW
COP Tj = -7°C	3.07	2.40
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.63 kW	2.64 kW
COP Tj = +2°C	5.03	3.70
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.71 kW	1.78 kW
COP Tj = +7°C	6.53	4.68
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.71 kW	1.62 kW
COP Tj = 12°C	8.78	6.34
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.39 kW	4.34 kW
COP Tj = Tbiv	3.07	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.96 kW	4.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.93	2.19
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	0.11 kW
Annual energy consumption Qhe	2019 kWh	2703 kWh