

Subtype Hi -Therma Integra 8kW

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 Integra 8kW
Registration number	011-1W0580
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.05 kg
Certification Date	10.02.2023
Testing basis	HP KEYMARK certification scheme rules rev. 11

Model AHW-080HCDS1/AHS-080HCDSAA-23

Model name	AHW-080HCDS1/AHS-080HCDSAA-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 η_{DHW}	135 %
COP	3.30
Heating up time	2:4 h:min
Standby power input	28.0 W
Reference hot water temperature	46.0 °C
Mixed water at 40°C	230 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	8.02 kW	8.02 kW
El input	1.58 kW	2.78 kW
COP	5.07	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	198 %	135 %
Prated	6.55 kW	6.25 kW

SCOP	5.03	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.79 kW	5.53 kW
COP Tj = -7°C	3.10	1.96
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.59 kW	3.26 kW
COP Tj = +2°C	4.87	3.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.48 kW	2.19 kW
COP Tj = +7°C	6.74	4.56
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.06 kW	2.18 kW
COP Tj = 12°C	10.86	7.86
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.79 kW	5.53 kW
COP Tj = Tbiv	3.10	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.23 kW	5.72 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.50 kW
Annual energy consumption Qhe	2690 kWh	3754 kWh