

Subtype Hi-Therma Split 8kW with 260L tank

Certificate Holder	Qingdao Hisense Hitachi Air-conditioning Systems Co.,Ltd.
Address	Qianwangang Road
ZIP	266555
City	Qingdao, Shandong
Country	CN
Certification Body	BRE Global Limited
Subtype title	Hi-Therma Split 8kW with 260L tank
Registration number	041-k021-08
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.05 kg
Certification Date	20.03.2023
Testing basis	Heat-pump Keymark Scheme rules v11

Model AHW-080HCDS1+AHM-080HCDSAA/HDHWT-300L30H**

Model name	AWH-080HCDS1+AHM-080HCDSAA/HDHWT-300L30H**
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}	137 %
COP	3.36
Heating up time	2:24 h:min
Standby power input	27.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	280 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	8.14 kW	8.06 kW
El input	1.64 kW	2.79 kW
COP	4.96	2.89

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	194 %	134 %
Prated	6.54 kW	5.88 kW

SCOP	4.92	3.42
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.76 kW	5.17 kW
COP Tj = -7°C	3.14	1.85
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.52 kW	3.16 kW
COP Tj = +2°C	4.84	3.40
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.32 kW	2.15 kW
COP Tj = +7°C	5.98	4.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.98 kW	2.14 kW
COP Tj = 12°C	9.67	7.71
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.76 kW	5.17 kW
COP Tj = Tbiv	3.14	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.16 kW	5.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.66	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	10 W	10 W
PCK	1 W	1 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.37 kW	0.20 kW
Annual energy consumption Qhe	2732 kWh	3536 kWh