

Subtype Hi-Therma Split 4 6kW 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 4 6kW with 260L tank
Registration number	041-k021-07
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	0.98 kg
Certification Date	20.03.2023
Testing basis	Heat-pump Keymark Scheme rules v11

Model AHW-044HCDS1+AHM-044HCDSAA/HDHWT-300L30H**

Model name	AHW-044HCDS1+AHM-044HCDSAA/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	3.33
Heating up time	2:24 h:min
Standby power input	28.0 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	4.40 kW	4.49 kW
El input	0.83 kW	1.60 kW
COP	5.30	2.81

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	197 %	126 %
Prated	4.44 kW	3.87 kW

SCOP	5.00	3.23
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.90 kW	3.40 kW
COP Tj = -7°C	3.29	1.97
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.39 kW	2.13 kW
COP Tj = +2°C	4.80	3.22
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.65 kW	1.41 kW
COP Tj = +7°C	6.44	3.97
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.22 kW	2.04 kW
COP Tj = 12°C	9.92	7.24
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.90 kW	3.40 kW
COP Tj = Tbiv	3.29	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.31 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.68
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	0.13 kW	0.32 kW
Annual energy consumption Qhe	1824 kWh	2457 kWh

Model AHW-060HCDS1+AHM-060HCDSAA/HDHWT-300L30H**

Model name	AHW-060HCDS1+AHM-060HCDSAA/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	3.33
Heating up time	2:24 h:min
Standby power input	28.0 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	5.85 kW	6.17 kW
El input	1.22 kW	1.93 kW
COP	4.80	3.19

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	194 %	130 %
Prated	6.09 kW	5.37 kW

SCOP	4.93	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.36 kW	4.72 kW
COP Tj = -7°C	3.13	2.04
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.25 kW	2.95 kW
COP Tj = +2°C	4.67	3.21
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.00 kW	1.97 kW
COP Tj = +7°C	6.63	4.34
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.22 kW	2.04 kW
COP Tj = 12°C	9.92	7.24
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.36 kW	4.72 kW
COP Tj = Tbiv	3.13	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.32 kW	4.53 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.66	1.75
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	0.74 kW	0.81 kW
Annual energy consumption Qhe	2539 kWh	3312 kWh