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Login

Summary of	Hi-Therma Split 4 6kW	Reg. No.	041-K021-01
Certificate Holder			
Name	Qingdao Hisense Hitachi Air-conditioning Systems Co.,Ltd.		
Address	Qianwangang Road	Zip	266555
City	Qingdao, Shandong	Country	China
Certification Body	BRE Global Limited		
Subtype title	Hi-Therma Split 4 6kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.23 kg		
Certification Date	22.11.2021		
Testing basis	Heat Pump Keymark Scheme Rules Rev 08		

Model: AHW-044HCDS1+AHM-044HCDSAA

Configure model	
Model name	AHW-044HCDS1+AHM-044HCDSAA
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

	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

	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

Configure model	
Model name	AHW-060HCDS1+AHM-060HCDSAA
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1

	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

	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