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Login

Summary of	Hi-Therma Monobloc 8kW	Reg. No.	041-K021-04
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 Monobloc 8kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.21 kg		
Certification Date	01.03.2022		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		

Model: AHZ-080HCDS1

Configure model	
Model name	AHZ-080HCDS1
Application	Heating (medium temp)
Units	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	8.00 kW	8.00 kW
El input	1.63 kW	2.86 kW
COP	4.90	2.80

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 outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	197 %	137 %
Prated	6.52 kW	6.07 kW
SCOP	5.00	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.74 kW	5.34 kW
COP Tj = -7°C	3.09	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.47 kW	3.11 kW
COP Tj = +2°C	4.76	3.41
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.44 kW	2.09 kW
COP Tj = +7°C	6.65	4.36
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.48 kW	1.23 kW

COP Tj = 12°C	9.58	6.52
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.74 kW	5.34 kW
COP Tj = Tbiv	3.09	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.14 kW	5.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	1.72
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	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.37 kW	0.25 kW
Annual energy consumption Qhe	2680 kWh	3574 kWh