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Summary of	Hi-Therma Monobloc 4kW	Reg. No.	041-K021-03
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 4kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.17 kg		
Certification Date	01.03.2022		
Testing basis	Heat Pump Keymark Scheme Rules Rev 09		

Model: AHZ-044HCDS1

Configure model

Model name	AHZ-044HCDS1
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	4.40 kW	4.40 kW
El input	0.86 kW	1.47 kW
COP	5.10	3.00

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

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EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
η_s	204 %	136 %
Prated	4.61 kW	4.09 kW
SCOP	5.17	3.47
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.05 kW	3.60 kW
COP Tj = -7°C	3.26	2.08
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.48 kW	2.26 kW
COP Tj = +2°C	5.02	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.67 kW	1.49 kW
COP Tj = +7°C	6.70	4.33
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.14 kW	1.02 kW

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COP Tj = 12°C	8.74	6.66
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.05 kW	3.60 kW
COP Tj = Tbiv	3.26	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.56 kW	3.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	7 W	7 W
PTO	8 W	8 W
PSB	7 W	7 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.05 kW	0.48 kW
Annual energy consumption Qhe	1830 kWh	2425 kWh