

Page 1 of 9 This information was generated by the HP KEYMARK database on 13 Feb 2023

Login			
Summary of	Hi -Therma Integra 4 6kW	Reg. No.	011-1W0579
Certificate Holder		I	
Name	Qingdao Hisense Hitachi Air-condi	tioning Systems Co.,	Ltd.
Address	Qianwangang Road	Zip	266555
City	Qingdao, Shandong	Country	China
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Hi -Therma Integra 4 6kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32	R32	
Mass of Refrigerant	0.98 kg		
Certification Date	10.02.2023		
Testing basis	HP KEYMARK certification scheme rules rev. 11		
	· · · · · · · · · · · · · · · · · · ·		

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



Page 2 of 9 This information was generated by the HP KEYMARK database on 13 Feb 2023

Model: AHW-044HCDS1/AHS-044HCDSAA-23

Configure model		
Model name AHW-044HCDS1/AHS-044HCDSAA-23		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

Genera	al Data
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.45 kW	4.45 kW
El input	0.84 kW	1.46 kW
СОР	5.21	3.05

EN 14511-3 at 15 °C / 60 °C (Annex A Part D)			
Low temperature Medium temperature			
Heat output	4.45 kW	4.45 kW	
El input	0.84 kW	1.46 kW	
СОР	5.21	3.05	



Page 3 of 9 This information was generated by the HP KEYMARK database on 13 Feb 2023

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}	201 %	130 %
Prated	4.53 kW	3.84 kW
SCOP	5.10	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.01 kW	3.40 kW
COP Tj = -7°C	3.35	1.98

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



Page 4 of 9

This information was generated by the HP KEYMARK database on 13 Feb 2023

I his information was genera		
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.43 kW	2.12 kW
COP Tj = +2°C	5.00	3.37
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = $+7^{\circ}$ C	1.71 kW	1.41 kW
COP Tj = +7°C	6.52	4.14
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.22 kW	2.10 kW
COP Tj = 12°C	11.22	8.16
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.01 kW	3.40 kW
COP Tj = Tbiv	3.35	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.38 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	8 W	8 W
РТО	9 W	9 W
PSB	9 W	9 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.15 kW	0.15 kW

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



This information was generated by the HP KEYMARK database on 13 Feb 2023

Annual energy consumption Qhe	1835 kWh	2381 kWh	

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	135 %
СОР	3.32
Heating up time	1:58 h:min
Standby power input	26.0 W
Reference hot water temperature	46.0 °C
Mixed water at 40°C	235



Page 6 of 9 This information was generated by the HP KEYMARK database on 13 Feb 2023

Model: AHW-060HCDS1/AHS-060HCDSAA-23

Configure model		
Model name AHW-060HCDS1/AHS-060HCDSAA-23		
Application	Heating + DHW + low 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	5.99 kW	6.11 kW
El input	1.13 kW	1.96 kW
СОР	5.26	3.11

EN 14511-3 at 15 °C / 60 °C (Annex A Part D)		
	Low temperature	Medium temperature
Heat output	5.99 kW	6.11 kW
El input	1.13 kW	1.96 kW
СОР	5.26	3.11



Page 7 of 9 This information was generated by the HP KEYMARK database on 13 Feb 2023

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	198 %	133 %
Prated	6.40 kW	5.31 kW
SCOP	5.03	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.66 kW	4.70 kW
COP Tj = -7°C	3.21	2.01

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



Page 8 of 9

This information was generated by the HP KEYMARK database on 13 Feb 2023

I his information was genera		
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.35 kW	3.05 kW
COP Tj = +2°C	4.88	3.37
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.05 kW	1.99 kW
COP Tj = +7°C	6.72	4.56
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.22 kW	2.05 kW
COP Tj = 12°C	11.22	7.43
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.66 kW	4.70 kW
COP Tj = Tbiv	3.21	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.29 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	10 W	10 W
PSB	10 W	10 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	0.80 kW

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



This information was generated by the HP KEYMARK database on 13 Feb 2023

Annual energy consumption Qhe	2629 kWh	3221 kWh	

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	136 %
СОР	3.32
Heating up time	1:58 h:min
Standby power input	26.0 W
Reference hot water temperature	46.0 °C
Mixed water at 40°C	235 I