

This information was generated by the HP KEYMARK database on 1 Jun 2023

Summary of	Hi-Therma Split 10 12	Reg. No.	011-1W0633
Certificate Holder			
Name	Qingdao Hisense Hitachi Air-conditioning 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 Split 10 12		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.8 kg		
Certification Date	01.06.2023		
Testing basis	HP KEYMARK certification scheme rules V11		

Model: AHW-100HCDS1/AHM-100HCDSAA

Configure model	
Model name	AHW-100HCDS1/AHM-100HCDSAA
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	10.05 kW	9.10 kW
El input	1.99 kW	2.92 kW
COP	5.05	3.11

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 indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	190 %	140 %
Prated	8.52 kW	8.00 kW
SCOP	4.83	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.54 kW	7.08 kW
COP Tj = -7°C	3.02	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.57 kW	4.29 kW
COP Tj = +2°C	4.83	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.88 kW	2.89 kW
COP Tj = +7°C	6.54	4.83
Cdh Tj = +7 °C	0.900	0.900

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Pdh Tj = 12°C	2.58 kW	2.67 kW
COP Tj = 12°C	6.06	6.75
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.54 kW	7.08 kW
COP Tj = Tbiv	3.02	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	5 W	5 W
PTO	9 W	9 W
PSB	5 W	5 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.09 kW
Annual energy consumption Qhe	3645 kWh	4619 kWh

Model: AHW-100HEDS1/AHM-100HEDSAA

Configure model	
Model name	AHW-100HEDS1/AHM-100HEDSAA
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.05 kW	9.10 kW
El input	1.99 kW	2.92 kW
COP	5.05	3.11

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 indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	190 %	140 %
Prated	8.57 kW	8.02 kW
SCOP	4.83	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.58 kW	7.09 kW
COP Tj = -7°C	3.03	2.19
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.57 kW	4.29 kW
COP Tj = +2°C	4.83	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.89 kW	2.89 kW
COP Tj = +7°C	6.55	4.84
Cdh Tj = +7 °C	0.900	0.900

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Pdh Tj = 12°C	2.58 kW	2.67 kW
COP Tj = 12°C	6.06	6.75
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.58 kW	7.09 kW
COP Tj = Tbiv	3.03	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.79	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	5 W	5 W
PTO	9 W	9 W
PSB	5 W	5 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.37 kW	0.11 kW
Annual energy consumption Qhe	3666 kWh	4623 kWh

Model: AHW-120HCDS1/AHM-120HCDSAA

Configure model	
Model name	AHW-120HCDS1/AHM-120HCDSAA
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	12.05 kW	11.22 kW
El input	2.47 kW	3.67 kW
COP	4.87	3.05

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

This information was generated by the HP KEYMARK database on 1 Jun 2023

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	187 %	135 %
Prated	9.53 kW	9.11 kW
SCOP	4.76	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.43 kW	8.06 kW
COP Tj = -7°C	3.15	2.11
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.11 kW	4.78 kW
COP Tj = +2°C	4.52	3.27
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.21 kW	3.29 kW
COP Tj = +7°C	6.44	4.89
Cdh Tj = +7 °C	0.900	0.900

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Pdh Tj = 12°C	2.51 kW	2.64 kW
COP Tj = 12°C	7.13	6.14
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.43 kW	8.06 kW
COP Tj = Tbiv	3.15	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.07 kW	8.69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	5 W	5 W
PTO	9 W	9 W
PSB	5 W	5 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.47 kW	0.42 kW
Annual energy consumption Qhe	3900 kWh	5450 kWh

Model: AHW-120HEDS1/AHM-120HEDSAA

Configure model	
Model name	AHW-120HEDS1/AHM-120HEDSAA
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.05 kW	11.22 kW
El input	2.47 kW	3.67 kW
COP	4.88	3.05

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 indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	188 %	135 %
Prated	9.50 kW	9.16 kW
SCOP	4.76	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.40 kW	8.10 kW
COP Tj = -7°C	3.16	2.12
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.11 kW	4.78 kW
COP Tj = +2°C	4.52	3.27
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.21 kW	3.29 kW
COP Tj = +7°C	6.45	4.87
Cdh Tj = +7 °C	0.900	0.900

This information was generated by the HP KEYMARK database on 1 Jun 2023

Pdh Tj = 12°C	2.51 kW	2.64 kW
COP Tj = 12°C	7.13	6.14
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.40 kW	8.10 kW
COP Tj = Tbiv	3.16	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.07 kW	8.69 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.69
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	5 W	5 W
PTO	9 W	9 W
PSB	5 W	5 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.43 kW	0.47 kW
Annual energy consumption Qhe	4121 kWh	5472 kWh