

Subtype HAWS***B1E7A?12kW/14kW/16kW?

Certificate Holder	Guangdong Haiwu Technology Co., Ltd
Address	No. 1 Haiwu Road Zhangmutou Town
ZIP	523637 Dongguan City
City	Guangdong
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	HAWS***B1E7A?12kW/14kW/16kW?
Registration number	011-1W0650
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.2 kg
Certification Date	18.07.2023
Testing basis	HP KEYMARK certification scheme rules V12

Model HAWS012B1E7A

Model name	HAWS012B1E7A
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	184 %	132 %
Prated	12.00 kW	13.00 kW
SCOP	4.68	3.38
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.63 kW	11.55 kW
COP Tj = -7°C	2.79	2.12
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	6.42 kW	6.92 kW
COP Tj = +2°C	4.53	3.16
Cdh Tj = +2 °C	0.992	0.995
Pdh Tj = +7°C	4.99 kW	4.59 kW
COP Tj = +7°C	6.26	4.57
Cdh Tj = +7 °C	0.986	0.989
Pdh Tj = 12°C	6.09 kW	5.91 kW
COP Tj = 12°C	9.88	7.48
Cdh Tj = +12 °C	0.982	0.986
Pdh Tj = Tbiv	10.63 kW	11.55 kW
COP Tj = Tbiv	2.79	2.12

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.17 kW	10.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.66	1.87
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	20 W	20 W
PSB	11 W	11 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.83 kW	2.01 kW
Annual energy consumption Qhe	5295 kWh	8013 kWh

Model HAWS014B1E7A

Model name	HAWS014B1E7A
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	185 %	130 %
Prated	13.00 kW	13.60 kW
SCOP	4.70	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.45 kW	12.04 kW
COP Tj = -7°C	2.71	2.12
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	7.13 kW	7.32 kW
COP Tj = +2°C	4.46	3.08
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	5.04 kW	4.59 kW
COP Tj = +7°C	6.56	4.57
Cdh Tj = +7 °C	0.986	0.989
Pdh Tj = 12°C	6.05 kW	5.86 kW
COP Tj = 12°C	9.96	7.42
Cdh Tj = +12 °C	0.982	0.986
Pdh Tj = Tbiv	11.45 kW	12.04 kW
COP Tj = Tbiv	2.71	2.12

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.61 kW	11.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	20 W	20 W
PSB	11 W	11 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.39 kW	1.78 kW
Annual energy consumption Qhe	5722 kWh	8472 kWh

Model HAWS016B1E7A

Model name	HAWS016B1E7A
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	183 %	130 %
Prated	13.00 kW	13.70 kW
SCOP	4.65	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.41 kW	12.06 kW
COP Tj = -7°C	2.69	2.08
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	7.16 kW	7.39 kW
COP Tj = +2°C	4.45	3.13
Cdh Tj = +2 °C	0.993	0.995
Pdh Tj = +7°C	4.96 kW	4.60 kW
COP Tj = +7°C	6.42	4.55
Cdh Tj = +7 °C	0.986	0.989
Pdh Tj = 12°C	6.09 kW	5.89 kW
COP Tj = 12°C	9.92	7.44
Cdh Tj = +12 °C	0.982	0.986
Pdh Tj = Tbiv	11.41 kW	12.06 kW
COP Tj = Tbiv	2.69	2.08

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.57 kW	11.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	65 °C	65 °C
Poff	11 W	11 W
PTO	20 W	20 W
PSB	11 W	11 W
PCK	41 W	41 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.43 kW	1.90 kW
Annual energy consumption Qhe	5774 kWh	8532 kWh