

Subtype Split Air-to-Water Heat Pump System- R32- W082+ W102

Certificate Holder	Qingdao Haier Air Conditioner Electric Co., Ltd.
Address	Haier Development Zone Industrial Park, Economic Development Zone, Qingdao City,
ZIP	
City	Shandong Province
Country	CN
Certification Body	BRE Global Limited
Subtype title	Split Air-to-Water Heat Pump System- R32- W082+ W102
Registration number	041-K073-06
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.6 kg
Certification Date	06.11.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

**Model Indoor unit: HU102WAMNA, Outdoor unit: AW082SNCHA**

Model name	Indoor unit: HU102WAMNA, Outdoor unit: AW082SNCHA
Application	Heating (medium temp)
Units	Indoor, 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 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	8.07 kW	8.08 kW
El input	1.60 kW	2.71 kW
COP	5.05	2.98

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	43 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	178 %	132 %
Prated	8.05 kW	8.09 kW
SCOP	4.53	3.37
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.12 kW	7.16 kW
COP Tj = -7°C	3.39	2.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.83 kW	4.52 kW
COP Tj = +2°C	5.01	3.39
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	3.83 kW	3.84 kW
COP Tj = +7°C	6.15	4.39
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.71 kW	4.51 kW
COP Tj = 12°C	3.52	6.41
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.12 kW	7.16 kW
COP Tj = Tbiv	3.39	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.15 kW	6.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.95	1.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	2.05 kW
Annual energy consumption Qhe	3665 kWh	4964 kWh

Model Indoor unit: HU102WAMNA, Outdoor unit: AW102SNCHA

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Application	Heating (medium temp)
Units	Indoor, 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.84 kW	10.03 kW
El input	2.10 kW	3.54 kW
COP	4.69	2.83

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	68 dB(A)	69 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	188 %	126 %
Prated	10.23 kW	9.65 kW
SCOP	4.77	3.24
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	9.05 kW	8.53 kW
COP Tj = -7°C	3.09	2.07
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.46 kW	5.34 kW
COP Tj = +2°C	4.66	3.11
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	3.90 kW	3.72 kW
COP Tj = +7°C	6.40	4.34
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.62 kW	4.23 kW
COP Tj = 12°C	9.26	6.36
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	9.05 kW	8.53 kW
COP Tj = Tbiv	3.09	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.09 kW	6.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.14 kW	2.95 kW
Annual energy consumption Qhe	4432 kWh	6160 kWh