Subtype R290 Monobloc 12/14 kW

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	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	R290 Monobloc 12/14 kW
Registration number	011-1W0829
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.05 kg
Certification Date	27.08.2024
Testing basis	HP KEYMARK certification scheme rules V14

Model AW122MXGHA	
Model name	AW122MXGHA
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 14511-2 | Heating	Low temperature	Medium temperature
Heat output	12.00 kW	11.50 kW
El input	2.35 kW	3.48 kW
COP	5.10	3.30

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	66 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	190 %	151 %
Prated	8.50 kW	6.80 kW
SCOP	4.83	3.85
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.48 kW	5.98 kW
COP Tj = -7°C	3.12	2.36
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.59 kW	3.67 kW
COP Tj = +2°C	4.60	3.75
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.98 kW	2.38 kW

COP Tj = +7°C	6.72	5.46
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.08 kW	4.79 kW
COP Tj = 12°C	8.35	6.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.48 kW	5.98 kW
COP Tj = Tbiv	3.12	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.26 kW	6.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.24 kW	0.06 kW
Annual energy consumption Qhe	3647 kWh	3650 kWh

Model AW12NMXGHA	
Model name	AW12NMXGHA
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	3x230V 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	12.00 kW	11.50 kW
El input	2.35 kW	3.48 kW
COP	5.10	3.30

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	63 dB(A)	66 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	190 %	151 %
Prated	8.50 kW	6.80 kW
SCOP	4.82	3.85
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.48 kW	5.98 kW
COP Tj = -7°C	3.12	2.36
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.59 kW	3.67 kW
COP Tj = +2°C	4.60	3.75
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.98 kW	2.38 kW

COP Tj = +7°C	6.72	5.46
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.08 kW	4.79 kW
COP Tj = 12°C	8.35	6.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.48 kW	5.98 kW
COP Tj = Tbiv	3.12	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.26 kW	6.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.24 kW	0.06 kW
Annual energy consumption Qhe	3647 kWh	3650 kWh

Model AW142MXGHA	
Model name	AW142MXGHA
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 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	14.00 kW	13.50 kW
El input	2.83 kW	4.22 kW
COP	4.95	3.20

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	67 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	189 %	150 %
Prated	8.50 kW	6.80 kW
SCOP	4.80	3.83
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	7.48 kW	5.98 kW
COP Tj = -7°C	3.12	2.36
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.59 kW	3.67 kW
COP Tj = +2°C	4.64	3.69
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.98 kW	2.38 kW

COP Tj = +7°C	6.75	5.46
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.08 kW	4.79 kW
COP Tj = 12°C	8.39	6.76
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.48 kW	5.98 kW
COP Tj = Tbiv	3.12	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.26 kW	6.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.64
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.24 kW	0.06 kW
Annual energy consumption Qhe	3662 kWh	3669 kWh

Model AW14NMXGHA		
Model name	AW14NMXGHA	
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	3x230V 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	14.00 kW	13.50 kW
El input	2.83 kW	4.22 kW
COP	4.95	3.20

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	67 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	189 %	150 %
Prated	8.50 kW	6.80 kW
SCOP	4.80	3.83
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
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COP Tj = -7°C	3.12	2.36
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.59 kW	3.67 kW
COP Tj = +2°C	4.64	3.69
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.98 kW	2.38 kW

COP Tj = +7°C	6.75	5.46
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.08 kW	4.79 kW
COP Tj = 12°C	8.39	6.76
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.48 kW	5.98 kW
COP Tj = Tbiv	3.12	2.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.26 kW	6.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.64
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.24 kW	0.06 kW
Annual energy consumption Qhe	3662 kWh	3669 kWh