

Subtype Monobloc Air-to-Water Heat Pump System- R32- W052+ W072			
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	Monobloc Air-to-Water Heat Pump System- R32- W052+ W072		
Registration number	041-K073-07		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.3 kg		
Certification Date	06.11.2023		
Testing basis	Heat Pump Keymark Scheme Rules Rev 12		

Model AW052MUCHA

Model name	AW052MUCHA	
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		
1 5	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)
EN 14825 Average Climate		
EN 14825 Average Climate	Low temperature	Medium temperature
	Low temperature 185 %	Medium temperature 142 %
ηs	-	
	185 %	142 %
ηs Prated	185 % 5.01 kW	142 % 5.23 kW
ηs Prated SCOP	185 % 5.01 kW 4.70	142 % 5.23 kW 3.63
ηs Prated SCOP Tbiv TOL	185 % 5.01 kW 4.70 -7 °C	142 % 5.23 kW 3.63 -7 °C
ns Prated SCOP Tbiv TOL Pdh Tj = -7°C	185 % 5.01 kW 4.70 -7 °C -25 °C	142 % 5.23 kW 3.63 -7 °C -25 °C
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35 0.900	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94 0.900
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35 0.900 2.74 kW	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94 0.900 2.90 kW
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35 0.900 2.74 kW 4.62	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94 0.900 2.90 kW 3.63
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35 0.900 2.74 kW 4.62 0.900	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94 0.900 2.90 kW 3.63 0.900
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C COP Tj = +2°C Pdh Tj = +7°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35 0.900 2.74 kW 4.62 0.900 2.79 kW	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94 0.900 2.90 kW 3.63 0.900 3.84 kW
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35 0.900 2.74 kW 4.62 0.900 2.79 kW 6.01	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94 0.900 2.90 kW 3.63 0.900 3.84 kW 5.62
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C COP Tj = +7°C COP Tj = +7°C COP Tj = +7°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35 0.900 2.74 kW 4.62 0.900 2.79 kW 6.01 0.900	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94 0.900 2.90 kW 3.63 0.900 3.84 kW 5.62 0.900
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C COP Tj = +7°C COP Tj = +7°C COP Tj = +7°C COP Tj = +7°C COP Tj = 12°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35 0.900 2.74 kW 4.62 0.900 2.79 kW 6.01 0.900 3.29 kW	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94 0.900 2.90 kW 3.63 0.900 3.84 kW 5.62 0.900 4.36 kW
ηs Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C COP Tj = +2°C Cdh Tj = +7°C Pdh Tj = +7°C COP Tj = +7°C Pdh Tj = +7°C Pdh Tj = 12°C	185 % 5.01 kW 4.70 -7 °C -25 °C 4.43 kW 3.35 0.900 2.74 kW 4.62 0.900 2.79 kW 6.01 0.900 3.29 kW 7.94	142 % 5.23 kW 3.63 -7 °C -25 °C 4.63 kW 1.94 0.900 2.90 kW 3.63 0.900 3.84 kW 5.62 0.900 4.36 kW 9.00



Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.83 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	18 W	18 W
PSB	18 W	18 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.18 kW	1.15 kW
Annual energy consumption Qhe	2199 kWh	2981 kWh

Model AW072MUCHA

Model AW072MOCHA		
Model name	AW072MUCHA	
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	61 dB(A)	62 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	189 %	141 %
Prated	7.09 kW	7.02 kW
SCOP	4.81	3.60
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7° C	6.27 kW	6.21 kW
$COP Tj = -7^{\circ}C$	3.86	2.63
Cdh Tj = -7 °C	0.900	0.900
$Pdh Tj = +2^{\circ}C$	4.04 kW	3.88 kW
COP T = +2°C	4.56	3.31
Cdh Tj = +2 °C	0.900	0.900
$Pdh Tj = +7^{\circ}C$	2.79 kW	3.55 kW
$COP T = +7^{\circ}C$	6.11	5.02
Cdh Tj = +7 °C	0.900	0.900
$Pdh Tj = 12^{\circ}C$	3.23 kW	3.84 kW
COP Tj = 12°C	7.80	8.09
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.27 kW	6.21 kW
COP Tj = Tbiv	3.86	2.63



Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.80 kW	4.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.64
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	18 W	18 W
PSB	18 W	18 W
РСК	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.29 kW	2.94 kW
Annual energy consumption Qhe	3044 kWh	4023 kWh