



Haier

Model(s): [information identifying the model(s) to which the information relates]				AW062MUGHA			
Air-to-water heat pump:				Yes			
Water-to-water heat pump:				No			
Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				No			
Heat pump combination heater:				No			
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.				Low-temperature application			
Parameters shall be declared for average, colder and warmer climate conditions.				Average climate conditions			
Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P _{rated}	4.5	kW	Seasonal space heating energy efficiency	η _s	201	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.96	kW	T _j = - 7 °C	COP _d or PER _d	3.48	– or%
T _j = + 2 °C	P _{dh}	2.43	kW	T _j = + 2 °C	COP _d or PER _d	4.89	– or%
T _j = + 7 °C	P _{dh}	1.58	kW	T _j = + 7 °C	COP _d or PER _d	6.73	– or%
T _j = + 12 °C	P _{dh}	1.91	kW	T _j = + 12 °C	COP _d or PER _d	8.87	– or%
T _j = bivalent temperature	P _{dh}	3.96	kW	T _j = bivalent temperature	COP _d or PER _d	3.48	– or%
T _j = operation limit temperature	P _{dh}	4.50	kW	T _j = operation limit temperature	COP _d or PER _d	2.30	– or%
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	0.00	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3028	m³/h
Sound power level, indoors/ outdoors	L _{WA}	-/58	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.032	m³/h
Annual energy consumption	Q _{HE}	1826	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Qingdao Haier Air Conditioner Electric Co., Ltd. Haier industrial Park, No.236, Qianwangang Road ,Qingdao Eco-tech Development Zone ,Qingdao , 266555, China						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater P _{sup} is equal to the supplementary capacity for heating sup(T _j). (**) If C _{dh} is not determined by measurement then the default degradation coefficient is C _{dh} = 0,9.							

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Air-to-water heat pump:				Yes			
Water-to-water heat pump:				No			
Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				No			
Heat pump combination heater:				No			
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.				Medium-temperature application			
Parameters shall be declared for average, colder and warmer climate conditions.				Average climate conditions			
Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P _{rated}	4	kW	Seasonal space heating energy efficiency	η _s	150	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = − 7 °C	P _{dh}	3.25	kW	T _j = − 7 °C	COP _d or PER _d	2.26	– or%
T _j = + 2 °C	P _{dh}	2.16	kW	T _j = + 2 °C	COP _d or PER _d	3.74	– or%
T _j = + 7 °C	P _{dh}	1.40	kW	T _j = + 7 °C	COP _d or PER _d	5.48	– or%
T _j = + 12 °C	P _{dh}	2.05	kW	T _j = + 12 °C	COP _d or PER _d	6.70	– or%
T _j = bivalent temperature	P _{dh}	3.25	kW	T _j = bivalent temperature	COP _d or PER _d	2.26	– or%
T _j = operation limit temperature	P _{dh}	3.60	kW	T _j = operation limit temperature	COP _d or PER _d	1.84	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	0.40	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3429	m³/h
Sound power level, indoors/ outdoors	L _{WA}	-/64	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.645	m³/h
Annual energy consumption	Q _{HE}	1995	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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Water-to-water heat pump:				No			
Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				No			
Heat pump combination heater:				No			
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.				Low-temperature application			
Parameters shall be declared for average, colder and warmer climate conditions.				Cold climate conditions			
Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P _{rated}	5	kW	Seasonal space heating energy efficiency	η _s	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = − 7 °C	P _{dh}	3.06	kW	T _j = − 7 °C	COP _d or PER _d	3.50	– or%
T _j = + 2 °C	P _{dh}	1.83	kW	T _j = + 2 °C	COP _d or PER _d	4.20	– or%
T _j = + 7 °C	P _{dh}	1.95	kW	T _j = + 7 °C	COP _d or PER _d	7.00	– or%
T _j = + 12 °C	P _{dh}	2.18	kW	T _j = + 12 °C	COP _d or PER _d	9.00	– or%
T _j = bivalent temperature	P _{dh}	4.14	kW	T _j = bivalent temperature	COP _d or PER _d	2.82	– or%
T _j = operation limit temperature	P _{dh}	3.18	kW	T _j = operation limit temperature	COP _d or PER _d	2.25	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	4.1	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	2.8	– or%
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	1.82	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3028	m³/h
Sound power level, indoors/ outdoors	L _{WA}	-/58	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.032	m³/h
Annual energy consumption	Q _{HE}	1997	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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Water-to-water heat pump:				No			
Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				No			
Heat pump combination heater:				No			
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.				Medium-temperature application			
Parameters shall be declared for average, colder and warmer climate conditions.				Cold climate conditions			
Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P _{rated}	4	kW	Seasonal space heating energy efficiency	η _s	125	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = − 7 °C	P _{dh}	2.50	kW	T _j = − 7 °C	COP _d or PER _d	2.70	– or%
T _j = + 2 °C	P _{dh}	1.62	kW	T _j = + 2 °C	COP _d or PER _d	3.63	– or%
T _j = + 7 °C	P _{dh}	1.85	kW	T _j = + 7 °C	COP _d or PER _d	5.48	– or%
T _j = + 12 °C	P _{dh}	2.21	kW	T _j = + 12 °C	COP _d or PER _d	7.14	– or%
T _j = bivalent temperature	P _{dh}	3.32	kW	T _j = bivalent temperature	COP _d or PER _d	2.12	– or%
T _j = operation limit temperature	P _{dh}	2.56	kW	T _j = operation limit temperature	COP _d or PER _d	1.69	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	3.3	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	2.1	– or%
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	1.44	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3429	m³/h
Sound power level, indoors/ outdoors	L _{WA}	-/64	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.645	m³/h
Annual energy consumption	Q _{HE}	1979	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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Water-to-water heat pump:				No			
Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				No			
Heat pump combination heater:				No			
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.				Low-temperature application			
Parameters shall be declared for average, colder and warmer climate conditions.				Warm climate conditions			
Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P _{rated}	5	kW	Seasonal space heating energy efficiency	η _s	260	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = − 7 °C	P _{dh}	/	kW	T _j = − 7 °C	COP _d or PER _d	/	– or%
T _j = + 2 °C	P _{dh}	5.05	kW	T _j = + 2 °C	COP _d or PER _d	4.63	– or%
T _j = + 7 °C	P _{dh}	3.26	kW	T _j = + 7 °C	COP _d or PER _d	6.08	– or%
T _j = + 12 °C	P _{dh}	2.60	kW	T _j = + 12 °C	COP _d or PER _d	8.86	– or%
T _j = bivalent temperature	P _{dh}	5.05	kW	T _j = bivalent temperature	COP _d or PER _d	4.63	– or%
T _j = operation limit temperature	P _{dh}	5.05	kW	T _j = operation limit temperature	COP _d or PER _d	4.63	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3028	m³/h
Sound power level, indoors/ outdoors	L _{WA}	-/58	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.032	m³/h
Annual energy consumption	Q _{HE}	874	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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Water-to-water heat pump:				No			
Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				No			
Heat pump combination heater:				No			
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.				Medium-temperature application			
Parameters shall be declared for average, colder and warmer climate conditions.				Warm climate conditions			
Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P _{rated}	4	kW	Seasonal space heating energy efficiency	η _s	175	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	/	kW	T _j = - 7 °C	COP _d or PER _d	/	– or%
T _j = + 2 °C	P _{dh}	4.03	kW	T _j = + 2 °C	COP _d or PER _d	2.84	– or%
T _j = + 7 °C	P _{dh}	2.64	kW	T _j = + 7 °C	COP _d or PER _d	4.12	– or%
T _j = + 12 °C	P _{dh}	2.23	kW	T _j = + 12 °C	COP _d or PER _d	6.13	– or%
T _j = bivalent temperature	P _{dh}	4.03	kW	T _j = bivalent temperature	COP _d or PER _d	2.84	– or%
T _j = operation limit temperature	P _{dh}	4.03	kW	T _j = operation limit temperature	COP _d or PER _d	2.84	– or%
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3429	m³/h
Sound power level, indoors/ outdoors	L _{WA}	-/64	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.645	m³/h
Annual energy consumption	Q _{HE}	1022	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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