

Model(s): [information identify	ring the r	nodel(s)	to which the	AWO	62MUGHA				
information relates]									
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 supplementa	•	r:			No				
Heat pump combination heate	er:				No				
Parameters shall be declared application, except for low-ter low- temperature heat pumps declared for low-temperature	nperatur , parame	e heat p eters sha	umps. For	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 heati	ng for pa	art load a	nt indoor	Declared coefficient of perform	ance or primary	energy rat	io for part		
temperature 20 °C and				load at indoor temperature 2			•		
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 th	an activ	e 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	1-	-			
Standby mode	P_{SB}	0.018	kW						
Crankcase heater mode	P_{CK}	0	kW						
Other items	- 								
Capacity control		Variab	ole	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 h			<u>. </u>						
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		
Qingdao Haier Air Conditioner Electric Co., Ltd. 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 $C_{dh} = 0.9$.									

Marting	Model(s): [information identify	ing the r	nodel(s)	to which the	AWO	62MUGHA				
Water-to-water heat pump: No No	information relates]				AW062MUGHA					
Brine-to-water heat pump:	Air-to-water heat pump:				Yes					
Low-temperature heat pumps: Equipped with a supplementary heater: Parameters shall be declared for medium-temperature application. Parameters shall be declared for average, colder and warmer climate conditions. Rated heat output (*) Prated 4 kW Rated heat output (*) Prated 4 kW Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature 1; I = 7°C Pan 1.2°C Pan 2.16 kW T = 7°C Pan 2.16 kW T = 7°C Pan 3.25 kW T = 7°C Pan 3.25 kW T = 7°C Pan 3.25 kW T = 12°C Pan 3.25 kW T = 15°C (If Tol. < -20°C) Bivalent temperature T = 15°C (If Tol. < -20°C) Bivalent temperature T = 15°C (If Tol. < -20°C) Cycling interval capacity for heating for Part load at indoor temperature T = 15°C (If Tol. < -20°C) Cycling interval capacity for heating Thermostat-off mode T = 10°C Pan 10°C	Water-to-water heat pump:				No					
Equipped with a supplementary heater: Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps, parameters shall be declared for average, colder and warmer climate conditions. Parameters shall be declared for average, colder and warmer climate conditions. Item symbol Value Unit Rated heat output (*) Priesd 4 kW Priesd 5 kW Priesd 6 kW Priesd 6 kW Priesd 6 kW Priesd 6 kW Priesd 7 km Prie	Brine-to-water heat pump:				No					
Heat pump combination heater: Parameters shall be declared for medium-temperature papplication, except for low-temperature papplications Medium-temperature papplication	Low-temperature heat pump:				No					
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps. For low-temperature heat pumps. For low-temperature heat pumps. For low-temperature application. Medium-temperature application	Equipped with a supplementa	ry heate	r:			No				
application, except for low-temperature heat pumps, parameters shall be declared for low-temperature application. Parameters shall be declared for average, colder and warmer climate conditions. Item symbol Value Unit Rated heat output (*) Prainted 4 kW Rated heat output (*) Prainted 4 kW Rated heat output (*) Prainted 4 kW Rated heat output (*) Prainted 5 kW Rated heat output (*) Prainted 5 kW Rated heat output (*) Prainted 5 kW Rated 6 kW Rated	Heat pump combination heate	er:				No				
Now-temperature heat pumps, parameters shall be declared for low-temperature application. Parameters shall be declared for average, colder and warmer climate conditions. Item	Parameters shall be declared	for med	ium-tem	perature						
term perature applications. Parameters shall be declared for average, colder and warmer climate conditions. Item Symbol Value Unit Rated heat output (*) P _{roted} 4 kW Seasonal space heating energy efficiency in temperature 20 °C and outdoor temperature 1 protection from the strip of part load at indoor temperature 20 °C and outdoor temperature 1 protection from the strip of part load at indoor temperature 20 °C and outdoor temperature 1 protection from the strip of part load at indoor temperature 20 °C and outdoor temperature 1 protection from the strip of part load at indoor temperature 20 °C and outdoor temperature 1 protection from the strip of part load at indoor temperature 20 °C and outdoor temperature 1 protection from the strip of part load at indoor temperature 20 °C and outdoor temperature 1 load at indoor temperature 20 °C and outdoor temperature 1 load at indoor temperature 20 °C and outdoor temperature 1 load at indoor temperature 20 °C and outdoor temperature 1 load at indoor temperature 20 °C and outdoor temperature 20 °C outdoor perega disciplination of the strip in the s	• • •	•		•	Medium-temperature application	0				
Parameters shall be declared for average, colder and warmer climate conditions. Item symbol Value Unit Rated heat output (*) P_rated 4 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1 ; I j = 7 °C P_pdh 3.25 kW I j = + 2 °C P_pdh 2.16 kW I j = + 2 °C P_pdh 2.26 kW I j = + 2 °C P_pdh 3.25 kW I j = + 2 °C P_pdh 3.25 kW I j = + 2 °C P_pdh 3.25 kW I j = - 15 °C (if TOL < - 20 °C) Bivalent temperature P_pdh 3.60 kW I j = - 15 °C (if TOL < - 20 °C) Bivalent temperature T_pbr 7-7 °C Cycling interval capacity for heating for part load at indoor temperature Told Told Reference P_pdh 3.86 kW I j = - 15 °C (if TOL < - 20 °C) Residual temperature T_pbr 7-7 °C Cycling interval capacity for heating for part load at indoor temperature Told 2.26 - or% Residual temperature P_pdh 3.80 kW Residual temperature T_pdr Told Told Told Residual temperature P_pdh 3.80 kW Residual temperature T_pdr Told Told Told Residual temperature T_pdr Told Told Residual temperature Told Told Residual temperature Told Told Residual temperature Told				all be	Mediani-temperature application	I I				
Note	declared for low-temperature	applicati	on.							
Item Symbol Value Unit Rated heat output (*) P _{mted} 4 kW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j T _j = 7 °C P _{gh} 3.25 kW T _j = +2 °C P _{gh} 2.16 kW T _j = +2 °C P _{gh} 3.25 kW T _j = +2 °C P _{gh} 3.25 kW T _j = +7 °C P _{gh} 3.25 kW T _j = +7 °C P _{gh} 3.25 kW T _j = +7 °C COP _g or PER _d 2.26 -0 °W T _j = bivalent temperature P _{gh} 3.25 kW T _j = operation limit temperature P _{gh} 3.25 kW T _j = operation limit temperature P _{gh} 3.60 kW T _j = -15 °C (if ToL < -20 °C) P _{gr} or PER _d 2.26 -0 °W T _j = operation limit temperature P _{gh} 3.60 kW T _j = -15 °C (if ToL < -20 °C) COP _d or PER _d 0.70 -0 °W T _j = operation limit temperature T _j = -15 °C (if ToL < -20 °C) COP _d or PER _d 0.70 -0 °W T _j = -15 °C (if ToL < -20 °C) COP _d or PER _d 0.70 -0 °W T _j = 0 °W T _j	Parameters shall be declared for average, colder and				Average climate conditions					
Rated heat output (*) Prated A KW Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j T _j = 7 °C P _{gh} 3.25 kW T _j = + 2 °C P _{gh} 1.40 kW T _j = + 12 °C P _{gh} 2.25 kW T _j = + 12 °C P _{gh} 3.25 kW T _j = + 12 °C P _{gh} 3.25 kW T _j = + 12 °C P _{gh} 3.25 kW T _j = + 12 °C P _{gh} 3.25 kW T _j = + 12 °C P _{gh} 3.25 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C P _{gh} 3.25 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C P _{gh} 3.26 kW T _j = + 12 °C COP _g or PER _g 3.26 - or% COP _g or PER _g 3.44 - or% T _j = operation limit temperature For air-to-water heat pumps: T _j = operation limit temperature For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C) Rivalent temperature T _{bw} -7 °C Power consumption in modes other than active mode Off mode P _{orf} 0.018 kW Crankcase heater mode Other items Capacity control Variable Variable Variable Sound power level, indoors/ outdoors Annual energy consumption Q _{kit} 1995 kWhor GJ Poclared load rindoor temperature 20 °C and outdoor temperature T _j to AW T _j = -7 °C COP _d or PER _g 3.26 - or% COP _d or PER _g 2.26 - or% COP _d or PER _g 2.26 - or% T _j = operation limit temperature COP _d or PER _g 1.84 - or% T _j = operation limit temperature COP _d or PER _g 2.26 - or% T _j = operation limit temperature COP _d or PER _g 2.26 - or% T _j = operation limit temperature COP _d or PER _g 1.84 - or% T _j = operation limit temperature COP _d or PER _g 1.84 - or% COP _d or PER _g 1.84 - or% COP _d or PER _g 1.84 - or% For air-to-water heat pumps: T _j - 15 °C (if TOL < -20 °C) Cycling interval efficiency COP _d or PER _g 1.84 - or% P _o 0.018 kW Tother temperature COP _d or PER _g 1.84 - or% COP _d or PER _g 1.84 - or% COP _d or PER _g 1.84 - or%	warmer climate conditions.				Average climate conditions					
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T T T T T T T T T T	Item	symbol	Value	Unit		symbol	Value	Unit		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated heat output (*)	P _{rated}	4	kW		η_{s}	150	%		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Declared capacity for heati	ng for pa	art load a	at indoor		ance or primary	energy rat	io for part		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	temperature 20 °C and o	outdoor	temperat	ture T _j						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	J	P _{dh}	3.25	kW	$T_j = -7 ^{\circ}\text{C}$	COP _d or PER _d	2.26	– or%		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$, , , , , , , , , , , , , , , , , , ,				J	COP _d or PER _d		– or%		
T _j = bivalent temperature T _j = operation limit temperature P _{dh} 3.60 kW T _j = operation limit temperature P _{dh} 3.60 kW T _j = operation limit temperature COP _d or PER _d 2.26 - or% 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) Bivalent temperature T _{biv} 7-7 °C Cycling interval capacity for heating P _{cych} N/A kW Degradation co- efficient (**) C _{dh} 0.9					J					
T _j = operation limit temperature P _{dh} 3.60 kW 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) Bivalent temperature T _{biv} -7 °C Cycling interval capacity for heating Degradation co- efficient (**) C _{dh} 0.9 — Heating water operating limit temperature Supplementary heater: N/A Rated heat output (*) P _{sup} 0.018 kW Type of energy input Capacity control Variable For air-to-water heat pumps: Operation limit temperature COP _d or PER _d N/A -or% COP _d or PER _d 0.9 -or% For air-to-water heat pumps: Operation limit temperature COP _d or PER _d 0.9 -or% For air-to-water heat pumps: Operation limit temperature COP _d or PER _d N/A -or% For air-to-water heat pumps: Operation limit temperature COP _d or PER _d N/A -or% For air-to-water heat pumps: Operation limit temperature COP _d or PER _d N/A -or% COP _d or PER _d N/A -or% For air-to-water heat pumps: Operation limit temperature COP _d or PER _d N/A -or% For air-to-water heat pumps: Operation limit temperature COP _d or PER _d N/A -or% COP _d or PER _d N/A -or% For air-to-water heat pumps: Operation limit temperature COP _d or PER _d N/A -or% COP _d or PER _d N/A -or% For air-to-water heat pumps: N/A Rated heat output (*) -P _{sup} 0.40 kW Type of energy input	J				J					
temperature For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C) Bivalent temperature T _{biv} T _j = -15 °C (if TOL < -20 °C) P _{dh} N/A RW For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C) Cycling interval capacity for heating P _{cych} N/A RW Cycling interval efficiency CoP _d or PER _d N/A P _{cych} N/A RW Cycling interval efficiency CoP _d or PER _d N/A P _{cych} N/A RW Cycling interval efficiency CoP _d or PER _d N/A P _{cych} N/A RW Cycling interval efficiency CoP _d or PER _d N/A P _{cych} N/A P _{cych} N/A Reating water operating limit temperature Supplementary heater: N/A Rated heat output (*) Type of energy input Capacity control Variable Capacity control Q _{HE} 1995 RWhor GJ Water heating energy efficiency Water heating energy p _{fic} N/A COP _d or PER _d N/A COP _d or PER _d N/A N/A COP _d or PER _d N/A O.9 - or% Por air-to-water heat pumps: Rated heat output (*) Type of energy input Sate of energy input		P_{dh}	3.25	kW	T_j = bivalent temperature	COP _d or PER _d	2.26	– or%		
For air-to-water heat pumps: $T_{j} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ P_{dh} N/A kW For air-to-water heat pumps: $T_{j} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ P_{dh} N/A kW For air-to-water heat pumps: $T_{j} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$ $P_{dh} = -15 ^{\circ}\text{C} (\text{if TOL} < $, .	P_{dh}	3.60	kW	T_j = operation limit temperature	COP _d or PER _d	1.84	– or%		
Bivalent temperature Tolu To	For air-to-water heat pumps:	P_{dh}	N/A	kW		COP _d or PER _d	N/A	– or%		
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 Supplementary heater: N/A Off mode P _{OFF} 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 water or brine-to-water heat pumps: Rated brine or water flow rate, outdoors Por heat pump combination heater: N/A Annual energy consumption Q _{HE} 1995 kWhor GJ Declared load profile - Water heating energy efficiency COP _d or PER _d 0.9 - or% Cycling interval efficiency COP _d or PER _d 0.9 - or% Heating water operating limit temperature Supplementary heater: N/A Rated heat output (*) P _{Sup} 0.40 kW Type of energy input	,	T _{biv}	-7	°C	For air-to-water heat pumps:	TOL	-25	°C		
Degradation co- efficient (**) C _{dh} 0.9 Heating water operating limit temperature WTOL 80 °C	·	5.1			Operation limit temperature					
Power consumption in modes other than active mode Off mode		P_{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%		
Off mode	Degradation co- efficient (**)	C_{dh}	0.9	_		WTOL	80	°C		
Thermostat-off mode	Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A			<u> </u>		
Thermostat-off mode	Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	0.40	kW		
Crankcase heater mode P _{CK} 0 kW Other items Capacity control Variable For air-to-water heat pumps: Rated 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 Annual energy consumption beater: N/A Water heating energy efficiency n/Wh - %	Thermostat-off mode		0.018	kW	Type of energy input		-			
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) 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 Mater heating energy efficiency η _{wh} - %										
Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors LwA A-/64 AB(A) For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Annual energy consumption QHE 1995 KWhor GJ For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger M/A 0.645 m³/h For heat pump combination heater: N/A Water heating energy efficiency nwh - %		P _{CK}	0	kW	1					
Sound power level, indoors/ outdoors Annual energy consumption Q _{HE} 1995 kWhor GJ Declared load profile Rated air flow rate, outdoors For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger N/A 0.645 m³/h Water heating energy efficiency N/A O.645 m³/h Water heating energy efficiency	Other items	Т			T = .					
Sound power level, indoors/ outdoors	Capacity control		Variat	ole		_	3429	m³/h		
For heat pump combination heater: N/A Declared load profile - Water heating energy efficiency \eta_{wh} - \\ \%	•	L _{WA}	-/64	dB(A)	heat pumps: Rated brine or water flow rate, outdoor heat	N/A	0.645	m³/h		
Declared load profile - Water heating energy efficiency η _{wh} - %	Annual energy consumption	Q_{HE}	1995	kWhor GJ						
efficiency efficiency	For heat pump combination h	eater: N	/A							
·	Declared load profile	-				η_{wh}	-	%		
	Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh		
Annual electricity consumption AEC - kWh Annual fuel consumption AFC - GJ			-				-			
Qingdao Haier Air Conditioner Electric Co., Ltd. Contact details 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 $C_{dh} = 0.9$.										

Model(s): [information identify	ing the r	nodel(s)	to which the						
information relates]	ing the r	nouci(3)	to willer the	AW062MUGHA					
Air-to-water heat pump:					Yes				
Water-to-water heat pump:				No No					
Brine-to-water heat pump:				No					
Low-temperature heat pump:					No				
Equipped with a supplementa	rv heate	r·		No					
Heat pump combination heate	-	••			No				
Parameters shall be declared		ium-tam	nerature						
application, except for low-ter									
low- temperature heat pumps	•		•	Low-temperature application					
declared for low-temperature									
Parameters shall be declared	for aver	age, col	der and						
warmer climate conditions.				Cold climate conditions					
Item	symbol	Value	Unit	Item symbol Value Unit					
Detect beet entered (*)	Ъ		14) 0 /	Seasonal space heating		454	0/		
Rated heat output (*)	P _{rated}	5	kW	energy efficiency	η_{s}	154	%		
Declared capacity for heati	ng for pa	art load a	nt indoor	Declared coefficient of perform	ance or primary	energy ra	io for part		
temperature 20 °C and o	outdoor	temperat	ture T _j	load at indoor temperature 2			•		
T _j = − 7 °C	P_{dh}	3.06	kW	T _j = -7 °C	,				
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	P_{dh}	3.18	kW	T_i = operation limit temperature	COP _d or PER _d	2.25	– or%		
temperature	- un	00		-) -р			5.75		
For air-to-water heat pumps:				For air-to-water heat pumps: T _i					
$T_i = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$	P_{dh}	4.1	kW	= - 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:	TOL	-25	°C		
Bivalent temperature	• DIV	10	Ü	Operation limit temperature	102	20			
Cycling interval capacity for	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%		
heating	- cycli			, ,		0.0			
Degradation co- efficient (**)	C_{dh}	0.9		Heating water operating limit	WTOL	60	°C		
temperature									
Power consumption in modes				Supplementary heater: N/A		4.00	1147		
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 Crankcase heater mode	P _{SB} P _{CK}	0.018	kW kW	-					
Other items	r CK	U	r\ v v		<u> </u>				
				For air-to-water heat pumps:					
Capacity control		Variab	ole	Rated air flow rate, outdoors	_	3028	m³/h		
-				·					
Sound nower level indeers/				For water- or brine-to- water					
Sound power level, indoors/ outdoors	L_{WA}	-/58	dB (A)	heat pumps: Rated brine or water flow rate, outdoor heat	N/A	1.032	m³/h		
outdoors				exchanger					
Appual operation	0	1007	kWhor GJ	GAGHAHYEI					
Annual energy consumption	Q _{HE}	1997	KVVIIOI GJ						
For heat pump combination h	eater: N/	'A	ı	Wotor hosting					
Declared load profile	-			Water heating energy	η_{wh}	-	%		
Daily electricity consumption	0.	_	kWh	efficiency Daily fuel consumption	0.	_	kWh		
Daily electricity consumption Annual electricity consumption	Q _{elec} AEC		kWh	Annual fuel consumption	Q _{fuel} AFC		GJ		
Qingdao Haier Air Conditioner Electric Co., Ltd.									
Contact datails					o took Daviden	mont Zan	o Oinados		
Contact details			raik,1NO.236,	Qianwangang Road ,Qingdao Ed	o-tech Develop	inent Zon	ungaao, با		
, 266555,China (*) For host nump cross hosters and host nump combination hosters, the rated host output Prated is equal to the design load for									
(*) 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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Model(s): [information identify information relates]	ring the r	nodel(s)	to which the	AWO	62MUGHA				
Air-to-water heat pump:					Yes				
Water-to-water heat pump:				No No					
Brine-to-water heat pump:				No					
Low-temperature heat pump:				No					
Equipped with a supplementa	rv heate	r·			No				
Heat pump combination heate	•	<u>. </u>			No				
Parameters shall be declared		ium tom	noroturo		140				
application, except for low-ter									
low- temperature heat pumps	•		•	Medium-temperature application	n				
declared for low-temperature			50						
Parameters shall be declared			dor and						
warmer climate conditions.	ioi avei	age, con	dei and	Cold climate conditions					
Item	symbol	Value	Unit	Item symbol Value Unit					
				Seasonal space heating	Gyrrisor				
Rated heat output (*)	P _{rated}	4	kW	energy efficiency	η _s	125	%		
Declared capacity for heati				Declared coefficient of performance or primary energy ratio for part					
temperature 20 °C and o		•	,	load at indoor temperature 2			,		
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: $T_j = -15 \text{ °C (if TOL } < -20 \text{ °C)}$	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		Variab	ole	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 h	eater: 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 $C_{dh} = 0.9$.									

Model(s): [information identify information relates]	ring the r	nodel(s)	to which the	AWO	62MUGHA				
Air-to-water heat pump:				Yes					
Water-to-water heat pump:				No No					
Brine-to-water heat pump:				No					
Low-temperature heat pump:				No					
Equipped with a supplementa	rv heate	r·			No				
Heat pump combination heate	•	<u>. </u>			No				
Parameters shall be declared		ium tom	ooratura		140				
application, except for low-ter									
low- temperature heat pumps	•	•	•	Low-temperature application					
declared for low-temperature									
Parameters shall be declared			dor and						
warmer climate conditions.	ioi avei	aye, con	dei and	Warm climate conditions					
Item	symbol	Value	Unit	Item	symbol	Value	Unit		
				Seasonal space heating	Cyrricor				
Rated heat output (*)	P _{rated}	5	kW	energy efficiency	η _s	260	%		
Declared capacity for heati				Declared coefficient of perform			•		
temperature 20 °C and o		temperat	,	load at indoor temperature 2		or temper	,		
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: $T_j = -15 \text{ °C (if TOL } < -20 \text{ °C)}$	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		Variab	le	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 h		/A	<u> </u>						
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. 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 $C_{dh} = 0.9$.									

Model(s): [information identify	ina the r	nodel(s)	to which the	1					
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 supplementa	ry heate	r:		No					
Heat pump combination heat	•				No				
Parameters shall be declared		ium-tem	perature						
application, except for low-ter									
low- temperature heat pumps	, parame	eters sha	ıll be	Medium-temperature application	n				
declared for low-temperature	applicati	on.							
Parameters shall be declared for average, colder and				Warm climate conditions					
warmer climate conditions.				Walli 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 heat	ng for pa	art load a	nt indoor	Declared coefficient of perform	ance or primary	energy rat	tio for part		
temperature 20 °C and				load at indoor temperature 2			•		
T _i = - 7 °C	P_{dh}	/	kW	T _i = -7 °C	COP _d or PER _d	/	– or%		
T _i = + 2 °C	P _{dh}	4.03	kW	T _i = + 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 th	an activ	e 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		Variat	ole	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 h	eater: 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		
Qingdao Haier Air Conditioner Electric Co., Ltd. Contact details 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 $C_{dh} = 0.9$.									