

## 

Model(s): [information identify	ring the r	model(s)	to which the	AW04	42MUGHA				
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 heat	er:				No				
Parameters shall be declared									
application, except for low-ter	•		•	Low-temperature application					
low- temperature heat pumps			ıll be	Low temperature application					
declared for low-temperature	• • • • • • • • • • • • • • • • • • • •								
Parameters shall be declared warmer climate conditions.	for aver	age, col	der and	Average climate conditions					
Item	symbol	Value	Unit	Item	symbol	Value	Unit		
Rated heat output (*)	P <sub>rated</sub>	4.5	kW	Seasonal space heating energy efficiency	$\eta_{s}$	201	%		
Declared capacity for heati	na for na	art load a	t indoor		ance or primary	energy rat	io for part		
temperature 20 °C and	•			Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>i</sub>					
$T_i = -7 ^{\circ}\text{C}$	P <sub>dh</sub>	3.96	kW	$T_i = -7 ^{\circ}\text{C}$ $COP_d$ or $PER_d$ 3.48 $-$ or%					
$T_i = + 2 ^{\circ}\text{C}$	P <sub>dh</sub>	2.43	kW	T <sub>i</sub> = + 2 °C	COP <sub>d</sub> or PER <sub>d</sub>	4.89	– 01% – or%		
$T_i = +7 ^{\circ}\text{C}$	P <sub>dh</sub>	1.58	kW	$T_i = +7 °C$	COP <sub>d</sub> or PER <sub>d</sub>	6.73	– or%		
T <sub>i</sub> = + 12 °C	P <sub>dh</sub>	1.91	kW	$T_i = + 12 ^{\circ}\text{C}$	COP <sub>d</sub> or PER <sub>d</sub>	8.87	– or%		
$T_i$ = bivalent temperature	P <sub>dh</sub>	3.96	kW	$T_i$ = bivalent temperature	COP <sub>d</sub> or PER <sub>d</sub>	3.48	– or%		
T <sub>i</sub> = operation limit				·					
temperature	P <sub>dh</sub>	4.50	kW	$T_j$ = operation limit temperature	COP <sub>d</sub> or PER <sub>d</sub>	2.30	– or%		
For air-to-water heat pumps:	<sub> </sub>	NI/A	1.107	For air-to-water heat pumps: T <sub>i</sub>	COD or DED	NI/A	- "0/		
$T_i = -15 ^{\circ}\text{C}  (\text{if TOL} < -20 ^{\circ}\text{C})$	$P_{dh}$	N/A	kW	= - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub> or PER <sub>d</sub>	N/A	– or%		
				For air to contain head more a					
Bivalent temperature	$T_{biv}$	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C		
Cycling interval capacity for heating	P <sub>cych</sub>	N/A	kW	Cycling interval efficiency	COP <sub>d</sub> or PER <sub>d</sub>	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			<u> </u>		
Off mode	P <sub>OFF</sub>	0.018	kW	Rated heat output (*)	$P_{sup}$	0.00	kW		
Thermostat-off mode	P <sub>TO</sub>	0.018	kW	Type of energy input	545	-			
Standby mode	P <sub>SB</sub>	0.018	kW	3, 1					
Crankcase heater mode	$P_{CK}$	0	kW						
Other items			·		·				
Capacity control		Variat	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3028	m³/h		
Sound power level, indoors/ outdoors	L <sub>WA</sub>	-/55	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.688	m³/h		
Annual energy consumption	Q <sub>HE</sub>	1826	kWhor GJ	<u> </u>					
For heat pump combination h									
Declared load profile	-	- •		Water heating energy efficiency	$\eta_{wh}$	-	%		
Daily electricity consumption	Q <sub>elec</sub>	_	kWh	Daily fuel consumption	$Q_{fuel}$	-	kWh		
Annual electricity consumption	AEC	_	kWh	Annual fuel consumption	AFC	_	GJ		
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heating Pdesignh, and the rate	d heat o	utput of	a supplement	heaters, the rated heat output Pra ary heater P <sub>sup</sub> is equal to the supp	olementary capa	_			
$[\sup(T_j). (**)]$ If $C_{dh}$ is not determ	$\sup(T_j)$ . (**) 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	AW042MUGHA					
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 heat	er:				No				
Parameters shall be declared			•						
application, except for low-ter	•		•	Medium-temperature application	n				
low- temperature heat pumps			ıll be	Wedidin temperature application					
declared for low-temperature	• • • • • • • • • • • • • • • • • • • •								
Parameters shall be declared	for aver	age, col	der and	Average climate conditions					
warmer climate conditions.				7.vorago ciimato conditiono					
Item	symbol	Value	Unit	Item	symbol	Value	Unit		
Rated heat output (*)	P <sub>rated</sub>	4	kW	Seasonal space heating energy efficiency	$\eta_{s}$	151	%		
Declared capacity for heat	ng for pa	art load a	t indoor	Declared coefficient of perform	ance or primary	energy rat	io for part		
temperature 20 °C and	outdoor t	temperat	ture T <sub>j</sub>	load at indoor temperature a	20 °C and outdo	or temper	ature T <sub>j</sub>		
T <sub>j</sub> = - 7 °C	$P_{dh}$	3.25	kW	T <sub>j</sub> = -7 °C	COP <sub>d</sub> or PER <sub>d</sub>	2.35	– or%		
T <sub>j</sub> = + 2 °C	$P_{dh}$	2.16	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub> or PER <sub>d</sub>	3.73	– or%		
$T_j = + 7 ^{\circ}C$	$P_{dh}$	1.40	kW	$T_j = + 7 ^{\circ}\text{C}$	COP <sub>d</sub> or PER <sub>d</sub>	5.50	– or%		
T <sub>j</sub> = + 12 °C	$P_{dh}$	2.05	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub> or PER <sub>d</sub>	6.70	– or%		
$T_j$ = bivalent temperature	$P_{dh}$	3.25	kW	$T_j$ = bivalent temperature	COP <sub>d</sub> or PER <sub>d</sub>	2.35	– or%		
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	3.60	kW	$T_j$ = operation limit temperature	COP <sub>d</sub> or PER <sub>d</sub>	1.85	– or%		
For air-to-water heat pumps: $T_i = -15 ^{\circ}\text{C}$ (if TOL < $-20 ^{\circ}\text{C}$ )	$P_{dh}$	N/A	kW	For air-to-water heat pumps: $T_j$ = -15 °C (if TOL < -20 °C)	COP <sub>d</sub> or PER <sub>d</sub>	N/A	– or%		
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps:	TOL	-25	°C		
Cycling interval capacity for	P <sub>cych</sub>	N/A	kW	Operation limit temperature  Cycling interval efficiency	COP <sub>d</sub> or PER <sub>d</sub>	0.9	– or%		
heating			KVV	Heating water operating limit					
Degradation co- efficient (**)	C <sub>dh</sub> 0.9 —			temperature	WTOL	80	°C		
Power consumption in modes				Supplementary heater: N/A	D	0.40	1.3.07		
Off mode Thermestat off mode	P <sub>OFF</sub>	0.018	kW	Rated heat output (*)	$P_{sup}$	0.40	kW		
Thermostat-off mode Standby mode	P <sub>TO</sub>	0.018	kW kW	Type of energy input		-			
Crankcase heater mode	P <sub>SB</sub> P <sub>CK</sub>	0.018	kW						
Other items	i CK	0	KVV	<u> </u>					
				For air-to-water heat pumps:					
Capacity control		Variat	ole	Rated air flow rate, outdoors	_	3429	m³/h		
Sound power level, indoors/ outdoors	L <sub>WA</sub>	-/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.430	m³/h		
Annual energy consumption	$Q_{HE}$	1985	kWhor GJ						
For heat pump combination h		/A	<u> </u>						
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%		
Daily electricity consumption	Q <sub>elec</sub>	_	kWh	Daily fuel consumption	$Q_{fuel}$	-	kWh		
Annual electricity consumption		_	kWh	Annual fuel consumption	AFC	-	GJ		
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(*) 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 <sub>sup</sub> is equal to the supplementary capacity for heating									
$sup(T_j)$ . (**) If $C_{dh}$ is not determ	ined by r	measurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570038		

Model(s): [information identify	ing the r	nodel(s)	to which the	AW042MUGHA				
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 application				
low- temperature heat pumps			ıll be	Low temperature application				
declared for low-temperature	applicati	on.						
Parameters shall be declared	for aver	age, col	der and	Cold climate conditions				
warmer climate conditions.	•		<del>.</del>				T	
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	$P_{rated}$	4.5	kW	Seasonal space heating energy efficiency	$\eta_{s}$	154	%	
Declared capacity for heati	ing for na	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			•	
$T_i = -7 ^{\circ}\text{C}$	P <sub>dh</sub>	2.87	kW	$T_i = -7  ^{\circ}C$	COP <sub>d</sub> or PER <sub>d</sub>	3.50	– or%	
T <sub>i</sub> = + 2 °C	P <sub>dh</sub>	1.75	kW	T <sub>i</sub> = + 2 °C	COP <sub>d</sub> or PER <sub>d</sub>	4.20	– or%	
T <sub>i</sub> = + 7 °C	P <sub>dh</sub>	1.88	kW	T <sub>i</sub> = + 7 °C	COP <sub>d</sub> or PER <sub>d</sub>	7.00	– or%	
T <sub>i</sub> = + 12 °C	P <sub>dh</sub>	2.17	kW	T <sub>i</sub> = + 12 °C	COP <sub>d</sub> or PER <sub>d</sub>	9.00	– or%	
$T_i$ = bivalent temperature	P <sub>dh</sub>	3.72	kW	T <sub>i</sub> = bivalent temperature	COP <sub>d</sub> or PER <sub>d</sub>	2.83	– or%	
T <sub>i</sub> = operation limit								
temperature	P <sub>dh</sub>	2.93	kW	$T_j$ = operation limit temperature	COP <sub>d</sub> or PER <sub>d</sub>	2.26	– or%	
For air-to-water heat pumps:		0.70	134	For air-to-water heat pumps: T <sub>i</sub>	COD	0.00	0.4	
$T_i = -15 ^{\circ}\text{C}  (\text{if TOL} < -20 ^{\circ}\text{C})$	$P_{dh}$	3.72	kW	= – 15 °C (if TOL < – 20 °C)	COP <sub>d</sub> or PER <sub>d</sub>	2.83	– or%	
	<u> </u>			,				
Bivalent temperature	$T_biv$	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C	
Cycling interval capacity for	P <sub>cych</sub>	N/A	kW	Cycling interval efficiency	COP <sub>d</sub> or PER <sub>d</sub>	0.9	– or%	
heating	· cycn	. 4// 1			Jo. a J. i Liva	5.5	01 /0	
Degradation co- efficient (**)	) C <sub>dh</sub> 0.9 —			Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A				
Off mode	P <sub>OFF</sub>	0.018	kW	Rated heat output (*)	$P_{sup}$	1.57	kW	
Thermostat-off mode	P <sub>TO</sub>	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	nle	For air-to-water heat pumps:		3028	m³/h	
	<u> </u>	vanal	л <del>С</del>	Rated air flow rate, outdoors		3020	111-711	
				For water- or brine-to- water				
Sound power level, indoors/	L <sub>WA</sub>	-/55	dB(A)	heat pumps: Rated brine or	N/A	0.688	m³/h	
outdoors	wa	-/33	αD(Λ)	water flow rate, outdoor heat	IN/A	0.000	111-711	
				exchanger				
Annual energy consumption	$Q_{HE}$	1848	kWhor GJ					
For heat pump combination h	eater: N	/A					T	
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	_	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
Annual electricity consumption	AEC	_	kWh	Annual fuel consumption	AFC	-	GJ	
							00	
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(*) For heat pump space heate	rs and he	at pump	combination	heaters, the rated heat output Pra	ited is equal to t	he design	load for	
				ary heater P <sub>sup</sub> is equal to the supp	•	_		
		-		default degradation coefficient is	•	-	-	
0150570938								

Model(s): [information identifying the model(s) to which the				AW042MUGHA					
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 No					
Equipped with a supplementa	•	r:			No				
Heat pump combination heat	er:				No				
Parameters shall be declared									
application, except for low-ter				Medium-temperature application	n				
low- temperature heat pumps	· •		ll be	Modiam temperature application					
declared for low-temperature									
Parameters shall be declared	for aver	age, colo	der and	Cold climate conditions					
warmer climate conditions.									
Item	symbol	Value	Unit	ltem	symbol	Value	Unit		
Rated heat output (*)	P <sub>rated</sub>	4	kW	Seasonal space heating energy efficiency	$\eta_{s}$	138	%		
Declared capacity for heat	ing for pa	art load a	t indoor	Declared coefficient of performance or primary energy ratio for part					
temperature 20 °C and	outdoor t	temperat	ure T <sub>j</sub>	load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>					
T <sub>j</sub> = - 7 °C	$P_{dh}$	2.50	kW	T <sub>j</sub> = -7 °C	COP <sub>d</sub> or PER <sub>d</sub>	2.70	– or%		
T <sub>j</sub> = + 2 °C	$P_{dh}$	1.62	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub> or PER <sub>d</sub>	3.63	– or%		
T <sub>j</sub> = + 7 °C	$P_{dh}$	1.85	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub> or PER <sub>d</sub>	5.48	– or%		
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	2.21	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub> or PER <sub>d</sub>	7.14	– or%		
T <sub>j</sub> = bivalent temperature	$P_{dh}$	3.32	kW	$T_j$ = bivalent temperature	COP <sub>d</sub> or PER <sub>d</sub>	2.12	– or%		
$T_j$ = operation limit temperature	$P_{dh}$	3.22	kW	$T_j$ = operation limit temperature	COP <sub>d</sub> or PER <sub>d</sub>	1.69	– or%		
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < $-20$ °C)	P <sub>dh</sub>	3.3	kW	For air-to-water heat pumps: $T_j$ = -15 °C (if TOL < -20 °C)	COP <sub>d</sub> or PER <sub>d</sub>	2.1	– or%		
Bivalent temperature	T <sub>biv</sub>	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C		
Cycling interval capacity for heating	P <sub>cych</sub>	N/A	kW	Cycling interval efficiency	COP <sub>d</sub> or PER <sub>d</sub>	0.9	– or%		
Degradation co- efficient (**)	$C_{dh}$	0.9	_	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes	other th	an active	e mode	Supplementary heater: N/A					
Off mode	P <sub>OFF</sub>	0.018	kW	Rated heat output (*)	$P_{sup}$	0.78	kW		
Thermostat-off mode	P <sub>TO</sub>	0.018	kW	Type of energy input		-			
Standby mode	$P_{SB}$	0.018	kW						
Crankcase heater mode	P <sub>CK</sub>	0	kW						
Other items									
Capacity control		Variab	le	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3429	m³/h		
Sound power level, indoors/ outdoors	L <sub>WA</sub>	-/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.430	m³/h		
Annual energy consumption	Q <sub>HE</sub>	2643	kWhor GJ						
For heat pump combination h		'A	<u> </u>	-					
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%		
Daily electricity consumption	Q <sub>elec</sub>	-	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									
heating Pdesignh, and the rate	(*) 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 <sub>sup</sub> 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	rina the r	nodel(s)	to which the	1					
information relates]					AW042MUGHA				
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				l					
low- temperature heat pumps				Low-temperature application					
declared for low-temperature	applicati	on.							
Parameters shall be declared	for aver	age, col	der and	Marine elimente con ditione					
warmer climate conditions.				Warm climate conditions					
Item	symbol	Value	Unit	ltem	symbol	Value	Unit		
Rated heat output (*)	P <sub>rated</sub>	4.5	kW	Seasonal space heating energy efficiency	$\eta_{s}$	248	%		
Declared capacity for heat	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 <sub>i</sub> = - 7 °C	$P_{dh}$	/	kW	T <sub>i</sub> = -7 °C	COP <sub>d</sub> or PER <sub>d</sub>	/	– or%		
T <sub>i</sub> = + 2 °C	$P_{dh}$	4.50	kW	T <sub>i</sub> = + 2 °C	COP <sub>d</sub> or PER <sub>d</sub>	4.64	– or%		
T <sub>j</sub> = + 7 °C	$P_{dh}$	2.94	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub> or PER <sub>d</sub>	6.02	– or%		
T <sub>j</sub> = + 12 °C	$P_{dh}$	2.15	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub> or PER <sub>d</sub>	8.25	– or%		
$T_j$ = bivalent temperature	$P_{dh}$	4.50	kW	$T_j$ = bivalent temperature	COP <sub>d</sub> or PER <sub>d</sub>	4.64	– or%		
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	4.50	kW	$T_j$ = operation limit temperature	COP <sub>d</sub> or PER <sub>d</sub>	4.64	– 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 <sub>d</sub> or PER <sub>d</sub>	N/A	– or%		
Bivalent temperature	T <sub>biv</sub>	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C		
Cycling interval capacity for heating	P <sub>cych</sub>	N/A	kW	Cycling interval efficiency	COP <sub>d</sub> or PER <sub>d</sub>	0.9	– or%		
Degradation co- efficient (**)	$C_{dh}$	0.9	_	Heating water operating limit temperature	TOL	80	°C		
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A					
Off mode	P <sub>OFF</sub>	0.018	kW	Rated heat output (*)	$P_{sup}$	-	kW		
Thermostat-off mode	P <sub>TO</sub>	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	_	3028	m³/h		
Sound power level, indoors/ outdoors	L <sub>WA</sub>	-/55	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.688	m³/h		
Annual energy consumption	$Q_{HE}$	810	kWhor GJ						
For heat pump combination h	eater: N	/A							
Declared load profile	_			Water heating energy efficiency	$\eta_{wh}$	-	%		
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	$Q_{fuel}$	-	kWh		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
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(*) 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 <sub>sup</sub> 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 identifying the model(s) to which the information relates]				AW042MUGHA					
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	uei anu	Warm climate conditions					
Item	symbol	Value	Unit	Item	symbol	Value	Unit		
				Seasonal space heating	Cyrricor				
Rated heat output (*)	P <sub>rated</sub>	4	kW	energy efficiency	$\eta_s$	175	%		
Declared capacity for heati	•			Declared coefficient of perform		٠,	•		
temperature 20 °C and o		temperat	,	load at indoor temperature 2		or temper			
T <sub>j</sub> = - 7 °C	$P_{dh}$	/	kW	T <sub>j</sub> = -7 °C	COP <sub>d</sub> or PER <sub>d</sub>	/	– or%		
T <sub>j</sub> = + 2 °C	$P_{dh}$	4.03	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub> or PER <sub>d</sub>	2.84	– or%		
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2.64	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub> or PER <sub>d</sub>	4.12	– or%		
T <sub>j</sub> = + 12 °C	$P_{dh}$	2.23	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub> or PER <sub>d</sub>	6.13	– or%		
T <sub>j</sub> = bivalent temperature	$P_{dh}$	4.03	kW	$T_j$ = bivalent temperature	COP <sub>d</sub> or PER <sub>d</sub>	2.84	– or%		
$T_j$ = operation limit temperature	$P_{dh}$	4.03	kW	$T_j$ = operation limit temperature	COP <sub>d</sub> or PER <sub>d</sub>	2.84	– 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 <sub>d</sub> or PER <sub>d</sub>	N/A	– or%		
Bivalent temperature	T <sub>biv</sub>	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C		
Cycling interval capacity for heating	P <sub>cych</sub>	N/A	kW	Cycling interval efficiency	COP <sub>d</sub> or PER <sub>d</sub>	0.9	– or%		
Degradation co- efficient (**)	$C_dh$	0.9	_	Heating water operating limit temperature	WTOL	80	°C		
Power consumption in modes				Supplementary heater: N/A					
Off mode	P <sub>OFF</sub>	0.018	kW	Rated heat output (*)	$P_{sup}$	-	kW		
Thermostat-off mode	P <sub>TO</sub>	0.018	kW	Type of energy input		-			
Standby mode	$P_{SB}$	0.018	kW						
Crankcase heater mode	$P_{CK}$	0	kW						
Other items	1		-			1			
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3429	m³/h		
Sound power level, indoors/ outdoors	L <sub>WA</sub>	-/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.430	m³/h		
Annual energy consumption	$Q_{HE}$	1022	kWhor GJ						
For heat pump combination h		'A	<u>.                                    </u>						
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%		
Daily electricity consumption	$Q_{\text{elec}}$	-	kWh	Daily fuel consumption	$Q_{fuel}$	-	kWh		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
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(*) 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 <sub>sup</sub> 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 $C_{dh} = 0.9$ .									