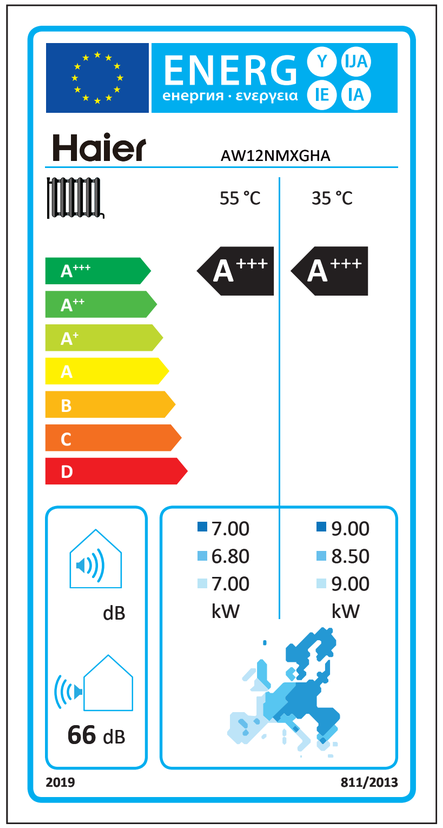

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Haier
AW12NMXGHA
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2019
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Haier

Model(s): [information identifying the model(s) to which the information relates]			AW12NMXGHA				
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}	8.5	kW	Seasonal space heating energy efficiency	η_s	190	%
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}	7.48	kW	T_j = – 7 °C	COP_d or PER_d	3.12	– or%
T_j = + 2 °C	P_{dh}	4.59	kW	T_j = + 2 °C	COP_d or PER_d	4.60	– or%
T_j = + 7 °C	P_{dh}	2.98	kW	T_j = + 7 °C	COP_d or PER_d	6.72	– or%
T_j = + 12 °C	P_{dh}	5.08	kW	T_j = + 12 °C	COP_d or PER_d	8.35	– or%
T_j = bivalent temperature	P_{dh}	7.48	kW	T_j = bivalent temperature	COP_d or PER_d	3.12	– or%
T_j = operation limit temperature	P_{dh}	6.26	kW	T_j = operation limit temperature	COP_d or PER_d	2.16	– 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}	2.24	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	—	4023	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	2.064	m^3/h
Annual energy consumption	Q_{HE}	3647	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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Model(s): [information identifying the model(s) to which the information relates]	AW12NMXGHA
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}	6.8	kW	Seasonal space heating energy efficiency	η_s	151	%
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}	5.98	kW	T_j = – 7 °C	COP_d or PER_d	2.36	– or%
T_j = + 2 °C	P_{dh}	3.67	kW	T_j = + 2 °C	COP_d or PER_d	3.75	– or%
T_j = + 7 °C	P_{dh}	2.38	kW	T_j = + 7 °C	COP_d or PER_d	5.46	– or%
T_j = + 12 °C	P_{dh}	4.79	kW	T_j = + 12 °C	COP_d or PER_d	6.90	– or%
T_j = bivalent temperature	P_{dh}	5.98	kW	T_j = bivalent temperature	COP_d or PER_d	2.36	– or%
T_j = operation limit temperature	P_{dh}	6.74	kW	T_j = operation limit temperature	COP_d or PER_d	1.65	– 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}	0.06	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	—	4821	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.290	m^3/h
Annual energy consumption	Q_{HE}	3650	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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Model(s): [information identifying the model(s) to which the information relates]			AW12NMXGHA				
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.			Cold climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P_{rated}	9	kW	Seasonal space heating energy efficiency	η_s	149	%
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}	5.47	kW	T_j = – 7 °C	COP_d or PER_d	3.50	– or%
T_j = + 2 °C	P_{dh}	3.44	kW	T_j = + 2 °C	COP_d or PER_d	4.20	– or%
T_j = + 7 °C	P_{dh}	4.15	kW	T_j = + 7 °C	COP_d or PER_d	7.00	– or%
T_j = + 12 °C	P_{dh}	5.03	kW	T_j = + 12 °C	COP_d or PER_d	9.00	– or%
T_j = bivalent temperature	P_{dh}	7.38	kW	T_j = bivalent temperature	COP_d or PER_d	2.46	– or%
T_j = operation limit temperature	P_{dh}	6.80	kW	T_j = operation limit temperature	COP_d or PER_d	1.85	– or%
For air-to-water heat pumps: T_j = – 15 °C (if TOL < – 20 °C)	P_{dh}	7.4	kW	For air-to-water heat pumps: T_j = – 15 °C (if TOL < – 20 °C)	COP_d or PER_d	2.5	– 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}	2.20	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	—	4023	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	2.064	m^3/h
Annual energy consumption	Q_{HE}	2939	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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Model(s): [information identifying the model(s) to which the information relates]	AW12NMXGHA
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.	Cold climate conditions

Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P_{rated}	7	kW	Seasonal space heating energy efficiency	η_s	127	%
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}	4.29	kW	T_j = – 7 °C	COP_d or PER_d	2.83	– or%
T_j = + 2 °C	P_{dh}	3.20	kW	T_j = + 2 °C	COP_d or PER_d	3.76	– or%
T_j = + 7 °C	P_{dh}	4.05	kW	T_j = + 7 °C	COP_d or PER_d	5.52	– or%
T_j = + 12 °C	P_{dh}	4.84	kW	T_j = + 12 °C	COP_d or PER_d	8.03	– or%
T_j = bivalent temperature	P_{dh}	5.76	kW	T_j = bivalent temperature	COP_d or PER_d	2.13	– or%
T_j = operation limit temperature	P_{dh}	6.96	kW	T_j = operation limit temperature	COP_d or PER_d	1.58	– or%
For air-to-water heat pumps: T_j = – 15 °C (if TOL < – 20 °C)	P_{dh}	5.8	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}	0.04	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	—	4821	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.290	m^3/h
Annual energy consumption	Q_{HE}	3346	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.

Model(s): [information identifying the model(s) to which the information relates]			AW12NMXGHA				
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.			Warm climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P_{rated}	9	kW	Seasonal space heating energy efficiency	η_s	258	%
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}	9.09	kW	T_j = + 2 °C	COP_d or PER_d	4.11	– or%
T_j = + 7 °C	P_{dh}	5.83	kW	T_j = + 7 °C	COP_d or PER_d	6.12	– or%
T_j = + 12 °C	P_{dh}	4.99	kW	T_j = + 12 °C	COP_d or PER_d	8.57	– or%
T_j = bivalent temperature	P_{dh}	9.09	kW	T_j = bivalent temperature	COP_d or PER_d	4.11	– or%
T_j = operation limit temperature	P_{dh}	9.09	kW	T_j = operation limit temperature	COP_d or PER_d	4.11	– 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	—	4023	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	2.064	m^3/h
Annual energy consumption	Q_{HE}	1579	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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Model(s): [information identifying the model(s) to which the information relates]	AW12NMXGHA
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.	Warm climate conditions

Item	symbol	Value	Unit	Item	symbol	Value	Unit
Rated heat output (*)	P_{rated}	7	kW	Seasonal space heating energy efficiency	η_s	185	%
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}	6.97	kW	T_j = + 2 °C	COP_d or PER_d	2.83	– or%
T_j = + 7 °C	P_{dh}	4.42	kW	T_j = + 7 °C	COP_d or PER_d	4.24	– or%
T_j = + 12 °C	P_{dh}	4.72	kW	T_j = + 12 °C	COP_d or PER_d	6.68	– or%
T_j = bivalent temperature	P_{dh}	6.97	kW	T_j = bivalent temperature	COP_d or PER_d	2.83	– or%
T_j = operation limit temperature	P_{dh}	6.97	kW	T_j = operation limit temperature	COP_d or PER_d	2.83	– 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	—	4821	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	-/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.290	m^3/h
Annual energy consumption	Q_{HE}	1675	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.