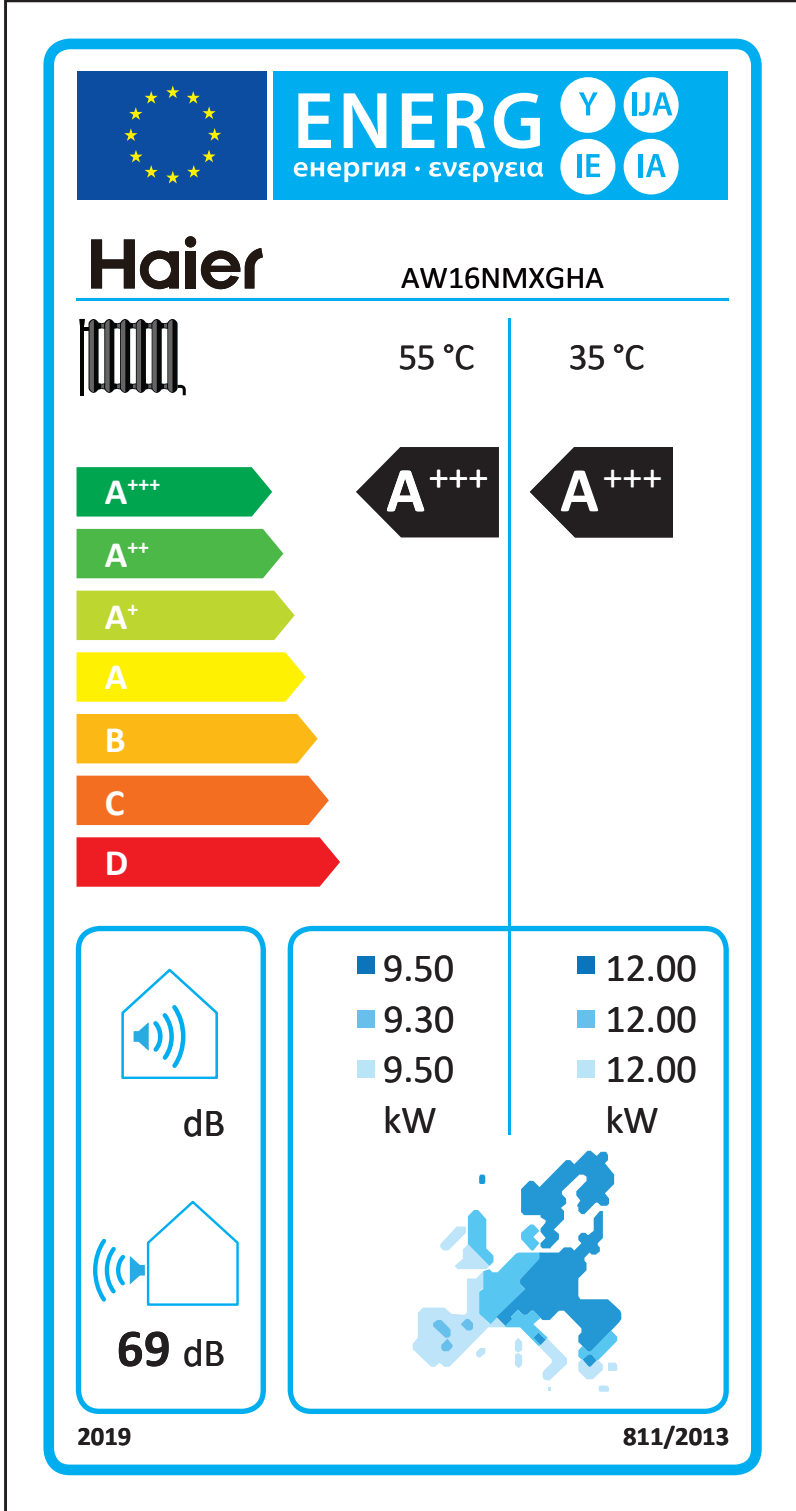




Haier

Model(s): [information identifying the model(s) to which the information relates]				AW16NMXGHA			
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}	12	kW	Seasonal space heating energy efficiency	η _s	189	%
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}	10.50	kW	T _j = - 7 °C	COP _d or PER _d	3.28	– or%
T _j = + 2 °C	P _{dh}	6.43	kW	T _j = + 2 °C	COP _d or PER _d	4.50	– or%
T _j = + 7 °C	P _{dh}	4.20	kW	T _j = + 7 °C	COP _d or PER _d	6.93	– or%
T _j = + 12 °C	P _{dh}	5.76	kW	T _j = + 12 °C	COP _d or PER _d	8.42	– or%
T _j = bivalent temperature	P _{dh}	10.50	kW	T _j = bivalent temperature	COP _d or PER _d	3.28	– or%
T _j = operation limit temperature	P _{dh}	8.98	kW	T _j = operation limit temperature	COP _d or PER _d	2.23	– 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}	3.02	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	m³/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	2.752	m³/h
Annual energy consumption	Q _{HE}	5139	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]				AW16NMXGHA			
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}	9.3	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}	8.18	kW	T _j = − 7 °C	COP _d or PER _d	2.32	– or%
T _j = + 2 °C	P _{dh}	4.93	kW	T _j = + 2 °C	COP _d or PER _d	3.73	– or%
T _j = + 7 °C	P _{dh}	3.26	kW	T _j = + 7 °C	COP _d or PER _d	5.50	– or%
T _j = + 12 °C	P _{dh}	5.37	kW	T _j = + 12 °C	COP _d or PER _d	6.65	– or%
T _j = bivalent temperature	P _{dh}	8.18	kW	T _j = bivalent temperature	COP _d or PER _d	2.32	– or%
T _j = operation limit temperature	P _{dh}	9.20	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}	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}	0.10	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	m³/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	1.720	m³/h
Annual energy consumption	Q _{HE}	4991	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]				AW16NMXGHA			
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}	12	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}	7.33	kW	T _j = − 7 °C	COP _d or PER _d	3.50	– or%
T _j = + 2 °C	P _{dh}	3.77	kW	T _j = + 2 °C	COP _d or PER _d	4.20	– or%
T _j = + 7 °C	P _{dh}	4.26	kW	T _j = + 7 °C	COP _d or PER _d	7.00	– or%
T _j = + 12 °C	P _{dh}	4.90	kW	T _j = + 12 °C	COP _d or PER _d	9.00	– or%
T _j = bivalent temperature	P _{dh}	9.87	kW	T _j = bivalent temperature	COP _d or PER _d	2.15	– or%
T _j = operation limit temperature	P _{dh}	8.69	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}	9.9	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	2.2	– 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}	3.31	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	m³/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	2.752	m³/h
Annual energy consumption	Q _{HE}	4868	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]				AW16NMXGHA			
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}	9.5	kW	Seasonal space heating energy efficiency	η _s	120	%
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}	5.72	kW	T _j = − 7 °C	COP _d or PER _d	2.63	– or%
T _j = + 2 °C	P _{dh}	3.40	kW	T _j = + 2 °C	COP _d or PER _d	3.58	– or%
T _j = + 7 °C	P _{dh}	4.16	kW	T _j = + 7 °C	COP _d or PER _d	5.16	– or%
T _j = + 12 °C	P _{dh}	4.89	kW	T _j = + 12 °C	COP _d or PER _d	7.33	– or%
T _j = bivalent temperature	P _{dh}	7.73	kW	T _j = bivalent temperature	COP _d or PER _d	1.94	– or%
T _j = operation limit temperature	P _{dh}	9.47	kW	T _j = operation limit temperature	COP _d or PER _d	1.46	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	7.7	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	1.9	– 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}	0.03	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	m³/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	1.720	m³/h
Annual energy consumption	Q _{HE}	4535	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]				AW16NMXGHA			
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}	12	kW	Seasonal space heating energy efficiency	η _s	253	%
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}	11.95	kW	T _j = + 2 °C	COP _d or PER _d	4.12	– or%
T _j = + 7 °C	P _{dh}	7.82	kW	T _j = + 7 °C	COP _d or PER _d	6.34	– or%
T _j = + 12 °C	P _{dh}	5.04	kW	T _j = + 12 °C	COP _d or PER _d	7.73	– or%
T _j = bivalent temperature	P _{dh}	11.95	kW	T _j = bivalent temperature	COP _d or PER _d	4.12	– or%
T _j = operation limit temperature	P _{dh}	11.95	kW	T _j = operation limit temperature	COP _d or PER _d	4.12	– 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	m³/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	2.752	m³/h
Annual energy consumption	Q _{HE}	2130	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]				AW16NMXGHA			
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}	9.5	kW	Seasonal space heating energy efficiency	η _s	176	%
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}	9.58	kW	T _j = + 2 °C	COP _d or PER _d	2.61	– or%
T _j = + 7 °C	P _{dh}	6.24	kW	T _j = + 7 °C	COP _d or PER _d	3.99	– or%
T _j = + 12 °C	P _{dh}	4.78	kW	T _j = + 12 °C	COP _d or PER _d	6.10	– or%
T _j = bivalent temperature	P _{dh}	9.58	kW	T _j = bivalent temperature	COP _d or PER _d	2.61	– or%
T _j = operation limit temperature	P _{dh}	9.58	kW	T _j = operation limit temperature	COP _d or PER _d	2.61	– 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	m³/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	1.720	m³/h
Annual energy consumption	Q _{HE}	2417	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.							