



Haier

Model(s): [information identifying the model(s) to which the information relates]				AW102HUGHA / HU102WAHYA			
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:				Yes			
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}	7.2	kW	Seasonal space heating energy efficiency	η _s	201	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = − 7 °C	P _{dh}	6.34	kW	T _j = − 7 °C	COP _d or PER _d	3.43	– or%
T _j = + 2 °C	P _{dh}	3.89	kW	T _j = + 2 °C	COP _d or PER _d	4.88	– or%
T _j = + 7 °C	P _{dh}	2.52	kW	T _j = + 7 °C	COP _d or PER _d	6.88	– or%
T _j = + 12 °C	P _{dh}	3.56	kW	T _j = + 12 °C	COP _d or PER _d	8.83	– or%
T _j = bivalent temperature	P _{dh}	6.34	kW	T _j = bivalent temperature	COP _d or PER _d	3.43	– or%
T _j = operation limit temperature	P _{dh}	7.11	kW	T _j = operation limit temperature	COP _d or PER _d	2.30	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	0.09	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	Fixed		Variable	For air-to-water heat pumps: Rated air flow rate, outdoors	—	3028	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/60	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.72	m³/h
Annual energy consumption	Q _{HE}	2922	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	—			Water heating energy efficiency	η _{wh}	—	%
Daily electricity consumption	Q _{elec}	—	kWh	Annual electricity consumption	AEC	—	kWh
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]				AW102HUGHA / HU102F20AHYA			
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:				Yes			
Heat pump combination heater:				Yes			
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}	7.2	kW	Seasonal space heating energy efficiency	η _s	201	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = − 7 °C	P _{dh}	6.34	kW	T _j = − 7 °C	COP _d or PER _d	3.43	– or%
T _j = + 2 °C	P _{dh}	3.89	kW	T _j = + 2 °C	COP _d or PER _d	4.88	– or%
T _j = + 7 °C	P _{dh}	2.52	kW	T _j = + 7 °C	COP _d or PER _d	6.88	– or%
T _j = + 12 °C	P _{dh}	3.56	kW	T _j = + 12 °C	COP _d or PER _d	8.83	– or%
T _j = bivalent temperature	P _{dh}	6.34	kW	T _j = bivalent temperature	COP _d or PER _d	3.43	– or%
T _j = operation limit temperature	P _{dh}	7.11	kW	T _j = operation limit temperature	COP _d or PER _d	2.30	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	0.09	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	Fixed		Variable	For air-to-water heat pumps: Rated air flow rate, outdoors	—	3028	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/60	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.72	m³/h
Annual energy consumption	Q _{HE}	2922	kWhor GJ				
For heat pump combination heater: Yes							
Declared load profile	L			Water heating energy efficiency	η _{wh}	130	%
Daily electricity consumption	Q _{elec}	3.71	kWh	Annual electricity consumption	AEC	817	kWh
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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Water-to-water heat pump:				No			
Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				Yes			
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	kW	Seasonal space heating energy efficiency	η _s	150	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.28	kW	T _j = - 7 °C	COP _d or PER _d	2.48	– or%
T _j = + 2 °C	P _{dh}	3.24	kW	T _j = + 2 °C	COP _d or PER _d	3.62	– or%
T _j = + 7 °C	P _{dh}	2.10	kW	T _j = + 7 °C	COP _d or PER _d	5.38	– or%
T _j = + 12 °C	P _{dh}	3.22	kW	T _j = + 12 °C	COP _d or PER _d	6.66	– or%
T _j = bivalent temperature	P _{dh}	5.28	kW	T _j = bivalent temperature	COP _d or PER _d	2.48	– or%
T _j = operation limit temperature	P _{dh}	5.95	kW	T _j = operation limit temperature	COP _d or PER _d	1.84	– or%
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	0.05	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	Fixed		Variable	For air-to-water heat pumps: Rated air flow rate, outdoors	—	3429	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h
Annual energy consumption	Q _{HE}	3240	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	—			Water heating energy efficiency	η _{wh}	—	%
Daily electricity consumption	Q _{elec}	—	kWh	Annual electricity consumption	AEC	—	kWh
Contact details	Qingdao Haier Air Conditioner Electric Co., Ltd. Haier industrial Park, No.236, Qianwangang Road ,Qingdao Eco-tech Development Zone ,Qingdao , 266555,China						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater P _{sup} is equal to the supplementary capacity for heating sup(T _j). (**) If C _{dh} is not determined by measurement then the default degradation coefficient is C _{dh} = 0,9.							

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Air-to-water heat pump:				Yes			
Water-to-water heat pump:				No			
Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				Yes			
Heat pump combination heater:				Yes			
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	kW	Seasonal space heating energy efficiency	η _s	150	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = − 7 °C	P _{dh}	5.28	kW	T _j = − 7 °C	COP _d or PER _d	2.48	– or%
T _j = + 2 °C	P _{dh}	3.24	kW	T _j = + 2 °C	COP _d or PER _d	3.62	– or%
T _j = + 7 °C	P _{dh}	2.10	kW	T _j = + 7 °C	COP _d or PER _d	5.38	– or%
T _j = + 12 °C	P _{dh}	3.22	kW	T _j = + 12 °C	COP _d or PER _d	6.66	– or%
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T _j = operation limit temperature	P _{dh}	5.95	kW	T _j = operation limit temperature	COP _d or PER _d	1.84	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	0.05	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	Fixed		Variable	For air-to-water heat pumps: Rated air flow rate, outdoors	—	3429	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h
Annual energy consumption	Q _{HE}	3240	kWhor GJ				
For heat pump combination heater:Yes							
Declared load profile	L			Water heating energy efficiency	η _{wh}	130	%
Daily electricity consumption	Q _{elec}	3.71	kWh	Annual electricity consumption	AEC	817	kWh
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Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				Yes			
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}	7.5	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}	4.54	kW	T _j = − 7 °C	COP _d or PER _d	3.50	– or%
T _j = + 2 °C	P _{dh}	3.41	kW	T _j = + 2 °C	COP _d or PER _d	4.20	– or%
T _j = + 7 °C	P _{dh}	2.57	kW	T _j = + 7 °C	COP _d or PER _d	7.00	– or%
T _j = + 12 °C	P _{dh}	3.63	kW	T _j = + 12 °C	COP _d or PER _d	9.00	– or%
T _j = bivalent temperature	P _{dh}	6.16	kW	T _j = bivalent temperature	COP _d or PER _d	1.58	– or%
T _j = operation limit temperature	P _{dh}	3.55	kW	T _j = operation limit temperature	COP _d or PER _d	1.42	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	6.16	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	1.58	– 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}	3.95	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3028	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/60	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}	4809	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	—			Water heating energy efficiency	η _{wh}	—	%
Daily electricity consumption	Q _{elec}	—	kWh	Annual electricity consumption	AEC	—	kWh
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Water-to-water heat pump:				No			
Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				Yes			
Heat pump combination heater:				Yes			
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			
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T _j = + 2 °C	P _{dh}	3.41	kW	T _j = + 2 °C	COP _d or PER _d	4.20	– or%
T _j = + 7 °C	P _{dh}	2.57	kW	T _j = + 7 °C	COP _d or PER _d	7.00	– or%
T _j = + 12 °C	P _{dh}	3.63	kW	T _j = + 12 °C	COP _d or PER _d	9.00	– or%
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T _j = operation limit temperature	P _{dh}	3.55	kW	T _j = operation limit temperature	COP _d or PER _d	1.42	– or%
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	6.16	kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	1.58	– 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}	3.95	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3028	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/60	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}	4809	kWhor GJ				
For heat pump combination heater: Yes							
Declared load profile	L			Water heating energy efficiency	η _{wh}	106.82	%
Daily electricity consumption	Q _{elec}	4.74	kWh	Annual electricity consumption	AEC	958.75	kWh
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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Brine-to-water heat pump:				No			
Low-temperature heat pump:				No			
Equipped with a supplementary heater:				Yes			
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}	6	kW	Seasonal space heating energy efficiency	η _s	128	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.69	kW	T _j = - 7 °C	COP _d or PER _d	2.93	— or%
T _j = + 2 °C	P _{dh}	2.35	kW	T _j = + 2 °C	COP _d or PER _d	3.98	— or%
T _j = + 7 °C	P _{dh}	2.95	kW	T _j = + 7 °C	COP _d or PER _d	5.91	— or%
T _j = + 12 °C	P _{dh}	2.98	kW	T _j = + 12 °C	COP _d or PER _d	7.30	— or%
T _j = bivalent temperature	P _{dh}	5.19	kW	T _j = bivalent temperature	COP _d or PER _d	1.47	— or%
T _j = operation limit temperature	P _{dh}	3.29	kW	T _j = operation limit temperature	COP _d or PER _d	1.31	— or%
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	5.19	kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	1.47	— 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}	2.71	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3429	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h
Annual energy consumption	Q _{HE}	2861	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	—			Water heating energy efficiency	η _{wh}	—	%
Daily electricity consumption	Q _{elec}	—	kWh	Annual electricity consumption	AEC	—	kWh
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]				AW102HUGHA / HU102F20AHYA			
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:				Yes			
Heat pump combination heater:				Yes			
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}	6	kW	Seasonal space heating energy efficiency	η _s	128	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = − 7 °C	P _{dh}	3.69	kW	T _j = − 7 °C	COP _d or PER _d	2.93	– or%
T _j = + 2 °C	P _{dh}	2.35	kW	T _j = + 2 °C	COP _d or PER _d	3.98	– or%
T _j = + 7 °C	P _{dh}	2.95	kW	T _j = + 7 °C	COP _d or PER _d	5.91	– or%
T _j = + 12 °C	P _{dh}	2.98	kW	T _j = + 12 °C	COP _d or PER _d	7.30	– or%
T _j = bivalent temperature	P _{dh}	5.19	kW	T _j = bivalent temperature	COP _d or PER _d	1.47	– or%
T _j = operation limit temperature	P _{dh}	3.29	kW	T _j = operation limit temperature	COP _d or PER _d	1.31	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	5.19	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	1.47	– 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}	2.71	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3429	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h
Annual energy consumption	Q _{HE}	2861	kWhor GJ				
For heat pump combination heater: Yes							
Declared load profile	L			Water heating energy efficiency	η _{wh}	106.82	%
Daily electricity consumption	Q _{elec}	4.74	kWh	Annual electricity consumption	AEC	958.75	kWh
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]				AW102HUGHA / HU102WAHYA			
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:				Yes			
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}	7.5	kW	Seasonal space heating energy efficiency	η _s	249	%
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}	7.47	kW	T _j = + 2 °C	COP _d or PER _d	4.45	– or%
T _j = + 7 °C	P _{dh}	4.88	kW	T _j = + 7 °C	COP _d or PER _d	5.52	– or%
T _j = + 12 °C	P _{dh}	3.88	kW	T _j = + 12 °C	COP _d or PER _d	8.75	– or%
T _j = bivalent temperature	P _{dh}	7.47	kW	T _j = bivalent temperature	COP _d or PER _d	4.45	– or%
T _j = operation limit temperature	P _{dh}	7.47	kW	T _j = operation limit temperature	COP _d or PER _d	4.45	– or%
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3028	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/60	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}	1360	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	—			Water heating energy efficiency	η _{wh}	—	%
Daily electricity consumption	Q _{elec}	—	kWh	Annual electricity consumption	AEC	—	kWh
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]				AW102HUGHA / HU102F20AHYA			
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:				Yes			
Heat pump combination heater:				Yes			
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}	7.5	kW	Seasonal space heating energy efficiency	η _s	249	%
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}	7.47	kW	T _j = + 2 °C	COP _d or PER _d	4.45	– or%
T _j = + 7 °C	P _{dh}	4.88	kW	T _j = + 7 °C	COP _d or PER _d	5.52	– or%
T _j = + 12 °C	P _{dh}	3.88	kW	T _j = + 12 °C	COP _d or PER _d	8.75	– or%
T _j = bivalent temperature	P _{dh}	7.47	kW	T _j = bivalent temperature	COP _d or PER _d	4.45	– or%
T _j = operation limit temperature	P _{dh}	7.47	kW	T _j = operation limit temperature	COP _d or PER _d	4.45	– or%
For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = − 15 °C (if TOL < − 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3028	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/60	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}	1360	kWhor GJ				
For heat pump combination heater: Yes							
Declared load profile	L			Water heating energy efficiency	η _{wh}	134.7	%
Daily electricity consumption	Q _{elec}	3.76	kWh	Annual electricity consumption	AEC	760.29	kWh
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]				AW102HUGHA / HU102WAHYA			
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:				Yes			
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}	6	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}	6.11	kW	T _j = + 2 °C	COP _d or PER _d	2.69	– or%
T _j = + 7 °C	P _{dh}	3.90	kW	T _j = + 7 °C	COP _d or PER _d	4.18	– or%
T _j = + 12 °C	P _{dh}	3.94	kW	T _j = + 12 °C	COP _d or PER _d	6.68	– or%
T _j = bivalent temperature	P _{dh}	6.11	kW	T _j = bivalent temperature	COP _d or PER _d	2.69	– or%
T _j = operation limit temperature	P _{dh}	6.11	kW	T _j = operation limit temperature	COP _d or PER _d	2.69	– or%
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3429	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h
Annual energy consumption	Q _{HE}	1481	kWhor GJ				
For heat pump combination heater: N/A							
Declared load profile	—			Water heating energy efficiency	η _{wh}	—	%
Daily electricity consumption	Q _{elec}	—	kWh	Annual electricity consumption	AEC	—	kWh
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]				AW102HUGHA / HU102F20AHYA			
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:				Yes			
Heat pump combination heater:				Yes			
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}	6	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}	6.11	kW	T _j = + 2 °C	COP _d or PER _d	2.69	– or%
T _j = + 7 °C	P _{dh}	3.90	kW	T _j = + 7 °C	COP _d or PER _d	4.18	– or%
T _j = + 12 °C	P _{dh}	3.94	kW	T _j = + 12 °C	COP _d or PER _d	6.68	– or%
T _j = bivalent temperature	P _{dh}	6.11	kW	T _j = bivalent temperature	COP _d or PER _d	2.69	– or%
T _j = operation limit temperature	P _{dh}	6.11	kW	T _j = operation limit temperature	COP _d or PER _d	2.69	– or%
For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T _j = - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	N/A	– or%
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%
Degradation co- efficient (**)	C _{dh}	0.9	—	Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater: N/A			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	-		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	3429	m³/h
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h
Annual energy consumption	Q _{HE}	1481	kWhor GJ				
For heat pump combination heater: Yes							
Declared load profile	L			Water heating energy efficiency	η _{wh}	134.7	%
Daily electricity consumption	Q _{elec}	3.76	kWh	Annual electricity consumption	AEC	760.29	kWh
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.							