Technical parameters							
Model(s):	Outdoor unit: ACHP-H04/4R3HA-O Indoor unit: ACHP-H04/4R3HA-I						
Air-to-water heat ump:	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						
Declared climate condition	Warmer						
Declared temperature application	Low						
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5.5	kW	**Seasonal space heating energy efficiency**	η_s	236	%
Declared capacity for heating for part load at indoor temperature 20℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	-	kW	T_j = -7℃	COPd	-	-
T_j = +2℃	Pdh	5.37	kW	T_j = +2℃	COPd	3.94	-
T_j = +7℃	Pdh	3.54	kW	T_j = +7℃	COPd	5.92	-
T_j = +12℃	Pdh	1.57	kW	T_j = +12℃	COPd	7.91	-
T_j = bivalent temperature	Pdh	3.54	kW	T_j = bivalent temperature	COPd	5.92	-
T_j = operation limit temperature	Pdh	5.37	kW	T_j = operation limit temperature	COPd	3.94	-
For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.13	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	1229	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Contact details	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, 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 Psup is equal to the supplementary capacity for heating sup(T_j). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9							

Technical parameters							
Model(s):	Outdoor unit: ACHP-H04/4R3HA-O Indoor unit: ACHP-H04/4R3HA-I						
Air-to-water heat ump:	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						
Declared climate condition	Warmer						
Declared temperature application	Medium						
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5	kW	**Seasonal space heating energy efficiency**	η_s	156	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	4.87	kW	T_j = +2°C	COPd	2.50	-
T_j = +7°C	Pdh	3.21	kW	T_j = +7°C	COPd	3.68	-
T_j = +12°C	Pdh	1.43	kW	T_j = +12°C	COPd	5.15	-
T_j = bivalent temperature	Pdh	3.21	kW	T_j = bivalent temperature	COPd	3.68	-
T_j = operation limit temperature	Pdh	4.87	kW	T_j = operation limit temperature	COPd	2.51	-
For air-to-water heat pumps: T_j = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: T_j = -15°C (if TOL < -20°C)	COPd	-	-
Bivalent temperature	T_{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.13	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	1684	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
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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 Psup is equal to the supplementary capacity for heating sup(T_j). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9							

Technical parameters							
Model(s):	Outdoor unit: ACHP-H04/4R3HA-O Indoor unit: ACHP-H04/4R3HA-I						
Air-to-water heat ump:	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						
Declared climate condition	Average						
Declared temperature application	Low						
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5.5	kW	**Seasonal space heating energy efficiency**	η_s	190	%
Declared capacity for heating for part load at indoor temperature 20℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	4.87	kW	T_j = -7℃	COPd	3.23	-
T_j = +2℃	Pdh	2.9	kW	T_j = +2℃	COPd	4.84	-
T_j = +7℃	Pdh	1.90	kW	T_j = +7℃	COPd	6.46	-
T_j = +12℃	Pdh	0.85	kW	T_j = +12℃	COPd	9.62	-
T_j = bivalent temperature	Pdh	4.87	kW	T_j = bivalent temperature	COPd	3.23	-
T_j = operation limit temperature	Pdh	4.34	kW	T_j = operation limit temperature	COPd	2.86	-
For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.16	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2355	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
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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 Psup is equal to the supplementary capacity for heating sup(T_j).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9

Technical parameters							
Model(s):	Outdoor unit: ACHP-H04/4R3HA-O Indoor unit: ACHP-H04/4R3HA-I						
Air-to-water heat ump:	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						
Declared climate condition	Average						
Declared temperature application	Medium						
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5.5	kW	**Seasonal space heating energy efficiency**	η_s	131	%
Declared capacity for heating for part load at indoor temperature 20℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	4.87	kW	T_j = -7℃	COPd	1.96	-
T_j = +2℃	Pdh	2.96	kW	T_j = +2℃	COPd	3.48	-
T_j = +7℃	Pdh	1.90	kW	T_j = +7℃	COPd	4.28	-
T_j = +12℃	Pdh	0.85	kW	T_j = +12℃	COPd	6.58	-
T_j = bivalent temperature	Pdh	4.87	kW	T_j = bivalent temperature	COPd	1.96	-
T_j = operation limit temperature	Pdh	3.42	kW	T_j = operation limit temperature	COPd	1.83	-
For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	2.08	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m^3/h
Sound power level, indoors/outdoors	L_{WA}	38/56	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3399	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
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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 Psup is equal to the supplementary capacity for heating sup(T_j). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9							

Technical parameters							
Model(s):	Outdoor unit: ACHP-H04/4R3HA-O Indoor unit: ACHP-H04/4R3HA-I						
Air-to-water heat ump:	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						
Declared climate condition	Colder						
Declared temperature application	Low						
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	4.6	kW	**Seasonal space heating energy efficiency**	η_s	157	%
Declared capacity for heating for part load at indoor temperature 20℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	2.75	kW	T_j = -7℃	COPd	3.50	-
T_j = +2℃	Pdh	1.77	kW	T_j = +2℃	COPd	4.95	-
T_j = +7℃	Pdh	1.17	kW	T_j = +7℃	COPd	5.53	-
T_j = +12℃	Pdh	1.43	kW	T_j = +12℃	COPd	7.67	-
T_j = bivalent temperature	Pdh	3.72	kW	T_j = bivalent temperature	COPd	2.57	-
T_j = operation limit temperature	Pdh	2.80	kW	T_j = operation limit temperature	COPd	1.97	-
For air-to-water heat pumps: Tj = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃ (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.80	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2833	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
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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 Psup is equal to the supplementary capacity for heating sup(T_j).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh =0.9

Technical parameters							
Model(s):	Outdoor unit: ACHP-H04/4R3HA-O Indoor unit: ACHP-H04/4R3HA-I						
Air-to-water heat ump:	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						
Declared climate condition	Colder						
Declared temperature application	Medium						
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	3.4	kW	**Seasonal space heating energy efficiency**	η_s	101	%
Declared capacity for heating for part load at indoor temperature 20 ℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	2.14	kW	T_j = -7℃	COPd	2.32	-
T_j = +2℃	Pdh	1.28	kW	T_j = +2℃	COPd	2.99	-
T_j = +7℃	Pdh	1.02	kW	T_j = +7℃	COPd	3.86	-
T_j = +12℃	Pdh	1.37	kW	T_j = +12℃	COPd	6.28	-
T_j = bivalent temperature	Pdh	2.74	kW	T_j = bivalent temperature	COPd	1.74	-
T_j = operation limit temperature	Pdh	1.64	kW	T_j = operation limit temperature	COPd	1.02	-
For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.76	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3233	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
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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 Psup is equal to the supplementary capacity for heating sup(T_j).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9