

Technical parameters							
Model(s):		Outdoor unit: ACHP-H08/4R3HA-O Indoor unit: ACHP-H08/4R3HA-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	8.1	kW	Seasonal space heating energy efficiency	η_s	270	%
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			
$T_j = -7^\circ\text{C}$	Pdh	-	kW	$T_j = -7^\circ\text{C}$	COPd	-	-
$T_j = +2^\circ\text{C}$	Pdh	7.80	kW	$T_j = +2^\circ\text{C}$	COPd	3.98	-
$T_j = +7^\circ\text{C}$	Pdh	5.21	kW	$T_j = +7^\circ\text{C}$	COPd	6.26	-
$T_j = +12^\circ\text{C}$	Pdh	2.31	kW	$T_j = +12^\circ\text{C}$	COPd	9.23	-
$T_j =$ bivalent temperature	Pdh	5.21	kW	$T_j =$ bivalent temperature	COPd	6.26	-
$T_j =$ operation limit temperature	Pdh	7.80	kW	$T_j =$ operation limit temperature	COPd	3.98	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	COPd	-	-
Bivalent temperature	T_{biv}	7	$^\circ\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^\circ\text{C}$
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	$^\circ\text{C}$
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	P_{sup}	0.3	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	-	4000	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}	1587	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							

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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	7.6	kW	Seasonal space heating energy efficiency	η_s	169	%
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			
$T_j = -7^\circ\text{C}$	Pdh	-	kW	$T_j = -7^\circ\text{C}$	COPd	-	-
$T_j = +2^\circ\text{C}$	Pdh	7.30	kW	$T_j = +2^\circ\text{C}$	COPd	2.59	-
$T_j = +7^\circ\text{C}$	Pdh	4.89	kW	$T_j = +7^\circ\text{C}$	COPd	3.92	-
$T_j = +12^\circ\text{C}$	Pdh	2.17	kW	$T_j = +12^\circ\text{C}$	COPd	5.55	-
$T_j =$ bivalent temperature	Pdh	4.89	kW	$T_j =$ bivalent temperature	COPd	3.92	-
$T_j =$ operation limit temperature	Pdh	7.30	kW	$T_j =$ operation limit temperature	COPd	2.59	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (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				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	P_{sup}	0.3	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	-	4000	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}	2368	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							
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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	8.1	kW	Seasonal space heating energy efficiency	η_s	200	%
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			
$T_j = -7^\circ\text{C}$	Pdh	7.17	kW	$T_j = -7^\circ\text{C}$	COPd	3.35	-
$T_j = +2^\circ\text{C}$	Pdh	4.36	kW	$T_j = +2^\circ\text{C}$	COPd	5.09	-
$T_j = +7^\circ\text{C}$	Pdh	2.80	kW	$T_j = +7^\circ\text{C}$	COPd	6.82	-
$T_j = +12^\circ\text{C}$	Pdh	1.25	kW	$T_j = +12^\circ\text{C}$	COPd	8.35	-
$T_j =$ bivalent temperature	Pdh	7.17	kW	$T_j =$ bivalent temperature	COPd	3.35	-
$T_j =$ operation limit temperature	Pdh	6.44	kW	$T_j =$ operation limit temperature	COPd	3.04	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	COPd	-	-
Bivalent temperature	T_{biv}	-7	$^\circ\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^\circ\text{C}$
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	$^\circ\text{C}$
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	P_{sup}	1.66	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	-	4000	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}	3294	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-H08/4R3HA-O Indoor unit: ACHP-H08/4R3HA-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	6.6	kW	Seasonal space heating energy efficiency	η_s	132	%
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			
$T_j = -7^\circ\text{C}$	Pdh	5.84	kW	$T_j = -7^\circ\text{C}$	COPd	2.16	-
$T_j = +2^\circ\text{C}$	Pdh	3.55	kW	$T_j = +2^\circ\text{C}$	COPd	3.30	-
$T_j = +7^\circ\text{C}$	Pdh	2.28	kW	$T_j = +7^\circ\text{C}$	COPd	4.34	-
$T_j = +12^\circ\text{C}$	Pdh	1.02	kW	$T_j = +12^\circ\text{C}$	COPd	5.33	-
$T_j = \text{bivalent temperature}$	Pdh	5.84	kW	$T_j = \text{bivalent temperature}$	COPd	2.16	-
$T_j = \text{operation limit temperature}$	Pdh	4.90	kW	$T_j = \text{operation limit temperature}$	COPd	1.84	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	COPd	-	-
Bivalent temperature	T_{biv}	-7	$^\circ\text{C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^\circ\text{C}$
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COP_{cyc}	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	$^\circ\text{C}$
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	P_{sup}	1.7	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	-	4000	m^3/h
Sound power level, indoors/outdoors	L_{WA}	42/59	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}	4035	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-H08/4R3HA-O Indoor unit: ACHP-H08/4R3HA-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	7.0	kW	Seasonal space heating energy efficiency	η_s	168	%
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			
$T_j = -7^\circ\text{C}$	Pdh	4.46	kW	$T_j = -7^\circ\text{C}$	COPd	3.66	-
$T_j = +2^\circ\text{C}$	Pdh	2.69	kW	$T_j = +2^\circ\text{C}$	COPd	5.20	-
$T_j = +7^\circ\text{C}$	Pdh	1.65	kW	$T_j = +7^\circ\text{C}$	COPd	6.53	-
$T_j = +12^\circ\text{C}$	Pdh	1.65	kW	$T_j = +12^\circ\text{C}$	COPd	7.96	-
$T_j =$ bivalent temperature	Pdh	5.69	kW	$T_j =$ bivalent temperature	COPd	2.83	-
$T_j =$ operation limit temperature	Pdh	4.06	kW	$T_j =$ operation limit temperature	COPd	1.95	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	COPd	-	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°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	52	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	P_{sup}	2.94	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	-	4000	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}	4036	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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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh =0.9							

Technical parameters							
Model(s):	Outdoor unit: ACHP-H08/4R3HA-O Indoor unit: ACHP-H08/4R3HA-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	5.8	kW	Seasonal space heating energy efficiency	η_s	111	%
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			
$T_j = -7^\circ\text{C}$	Pdh	3.86	kW	$T_j = -7^\circ\text{C}$	COPd	2.48	-
$T_j = +2^\circ\text{C}$	Pdh	2.21	kW	$T_j = +2^\circ\text{C}$	COPd	3.35	-
$T_j = +7^\circ\text{C}$	Pdh	1.44	kW	$T_j = +7^\circ\text{C}$	COPd	4.11	-
$T_j = +12^\circ\text{C}$	Pdh	1.47	kW	$T_j = +12^\circ\text{C}$	COPd	5.92	-
$T_j =$ bivalent temperature	Pdh	4.71	kW	$T_j =$ bivalent temperature	COPd	1.90	-
$T_j =$ operation limit temperature	Pdh	2.80	kW	$T_j =$ operation limit temperature	COPd	1.22	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}$ (if TOL < -20°C)	COPd	-	-
Bivalent temperature	T_{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°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	52	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	P_{sup}	3.0	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	-	4000	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}	5014	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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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9							