

Product Fiche

Technical parameters							
Model(s):		ACHP-H06/4R3HA-M (NE)					
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					
Declared climate condition		Warmer					
Declared temperature application		Low					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output(*)	Prated	6.1	kW	Seasonal space heating energy efficiency	η_s	256	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = +2°C	Pdh	5.85	kW	Tj = +2°C	COPd	3.91	-
Tj = +7°C	Pdh	3.92	kW	Tj = +7°C	COPd	5.89	-
Tj = +12°C	Pdh	1.74	kW	Tj = +12°C	COPd	8.20	-
Tj = bivalent temperature	Pdh	3.92	kW	Tj = bivalent temperature	COPd	5.89	-
Tj = operation limit temperature	Pdh	5.85	kW	Tj = operation limit temperature	COPd	3.91	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Ppsych	-	kW	Cycling interval efficiency	COPpsych	-	-
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	POFF	0.020	kW	Rated heat output (*)	Psup	0.3	kW
Thermostat-off mode	PTO	0.030	kW	Type of energy input	Electricity		
Standby mode	PsB	0.020	kW				
Crankcase heater mode	PcK	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	LWA	-	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	1258	kWh				
For heat pump combination heater							
Declared load profile	-			Water heating energy efficiency	Owh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China						
<p>(*) 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(Tj).</p> <p>(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9</p>							

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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	8.1	kW	Seasonal space heating energy efficiency	η_s	162	%
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	7.85	kW	$T_j = +2^\circ\text{C}$	COPd	2.43	-
$T_j = +7^\circ\text{C}$	Pdh	5.21	kW	$T_j = +7^\circ\text{C}$	COPd	3.73	-
$T_j = +12^\circ\text{C}$	Pdh	2.31	kW	$T_j = +12^\circ\text{C}$	COPd	6.03	-
$T_j = \text{bivalent temperature}$	Pdh	5.21	kW	$T_j = \text{bivalent temperature}$	COPd	3.73	-
$T_j = \text{operation limit temperature}$	Pdh	7.85	kW	$T_j = \text{operation limit temperature}$	COPd	2.43	-
For air-to-water heat pumps: $T_j = -15^\circ\text{C}(\text{if TOL} < -20^\circ\text{C})$	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15^\circ\text{C}(\text{if TOL} < -20^\circ\text{C})$	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{psych}	-	kW	Cycling interval efficiency	COP _{psych}	-	-
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}	0.25	kW
Thermostat-off mode	P _{TO}	0.030	kW				
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	LWA	-	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}	2418	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	O _{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						
<p>(*) 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(Tj).</p> <p>(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9</p>							

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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	6.8	kW	Seasonal space heating energy efficiency	η_s	196	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	6.02	kW	Tj = -7°C	COPd	2.85	-
Tj = +2°C	Pdh	3.66	kW	Tj = +2°C	COPd	4.98	-
Tj = +7°C	Pdh	2.35	kW	Tj = +7°C	COPd	6.38	-
Tj = +12°C	Pdh	1.05	kW	Tj = +12°C	COPd	9.67	-
Tj = bivalent temperature	Pdh	6.02	kW	Tj = bivalent temperature	COPd	2.85	-
Tj = operation limit temperature	Pdh	5.42	kW	Tj = operation limit temperature	COPd	2.90	-
For air-to-water heat pumps: Tj = -15°C (ifTOL v.20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (ifTOL <-20°C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Peych	-	kW	Cycling interval efficiency	COPeyc	-	-
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	POFF	0.020	kW	Rated heat output (*)	Psup	1.38	kW
Thermostat-off mode	Pto	0.030	kW	Type of energy input	Electricity		
Standby mode	PSB	0.020	kW				
Crankcase heater mode	PCK	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	LWA	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	2818	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	Qwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	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(Tj). (**) 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		Average					
Declared temperature application		Medium					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output(*)	Prated	6.3	kW	Seasonal space heating energy efficiency	η_s	136	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	5.57	kW	Tj = -7°C	COPd	2.20	-
Tj = +2°C	Pdh	3.39	kW	Tj = +2°C	COPd	3.42	-
Tj = +7°C	Pdh	2.18	kW	Tj = +7°C	COPd	4.30	-
Tj = +12°C	Pdh	0.97	kW	Tj = +12°C	COPd	6.89	-
Tj = bivalent temperature	Pdh	5.58	kW	Tj = bivalent temperature	COPd	2.20	-
Tj = operation limit temperature	Pdh	4.03	kW	Tj = operation limit temperature	COPd	1.85	-
For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	η_{cyc}	-	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	POFF	0.020	kW	Rated heat output (*)	Psup	2.27	kW
Thermostat-off mode	P TO	0.030	kW				
Standby mode	Γ_{SB}	0.020	kW				
Crankcase heater mode	P%	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	LWA	58	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	3733	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	Hwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	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(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh =0.9							

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Model(s):		ACHP-H06/4R3HA-M(NE)					
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	5.6	kW	Seasonal space heating energy efficiency	η_s	164	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	3.42	kW	Tj = -7°C	COPd	3.59	-
Tj = +2°C	Pdh	2.06	kW	Tj = +2°C	COPd	5.21	-
Tj = +7°C	Pdh	1.46	kW	Tj = +7°C	COPd	6.24	-
Tj = +12°C	Pdh	1.44	kW	Tj = +12°C	COPd	7.66	-
Tj = bivalent temperature	Pdh	4.59	kW	Tj = bivalent temperature	COPd	2.53	-
Tj = operation limit temperature	Pdh	3.48	kW	Tj = operation limit temperature	COPd	1.96	-
For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{psych}	-	kW	Cycling interval efficiency	COP _{psych}	-	-
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}	2.12	kW
Thermostat-off mode	P _{TO}	0.030	kW				
Standby mode	P _{SB}	0.020	kW				
Crankcase heater mode	P _{cK}	0.000	kW				
Type of energy input							
Electricity							
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m ³ /h
Sound power level	LWA	-	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}	3314	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	H _{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(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh =0.9							

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Model(s):		ACHP-H06/4R3HA-M(NE)					
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	4.3	kW	Seasonal space heating energy efficiency	η_s	111	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	2.69	kW	Tj = -7°C	COPd	2.46	-
Tj = +2°C	Pdh	1.60	kW	Tj = +2°C	COPd	3.36	-
Tj = +7°C	Pdh	1.02	kW	Tj = +7°C	COPd	3.94	-
Tj = +12°C	Pdh	1.37	kW	Tj = +12°C	COPd	6.35	-
Tj = bivalent temperature	Pdh	3.47	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operation limit temperature	Pdh	2.09	kW	Tj = operation limit temperature	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	η_{cyc}	-	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	POFF	0.020	kW	Rated heat output (*)	Psup	2.2	kW
Thermostat-off mode	P TO	0.030	kW				
Standby mode	Γ_{SB}	0.020	kW				
Crankcase heater mode	P%	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	LWA	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	3760	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	Hwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China						
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