Product Fiche

Technical parameters							
Model(s):	Outdoor unit: ACHP-H 12/5R3HA-O						
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	11.1	kW	Seasonal space heating energy efficiency	Hs	**245**	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coeffient 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	**10.90**	kW	Tj = +2°C	COPd	3.59	-
Tj = +7°C	Pdh	7.14	kW	Tj = +7°C	COPd	5.87	-
Tj = +12°C	Pdh	**3.17**	kW	Tj = +12°C	COPd	7.94	-
Tj = bivalent temperature	Pdh	7.14	kW	Tj = bivalent temperature	COPd	5.87	-
Tj = operation limit temperature	Pdh	**10.90**	kW	Tj = operation limit temperature	COPd	3.59	-
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	2	°C
Cycling interval capacity for heating	Pcych	-	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	POFF	0.020	kW	Rated heat output (*)	Psup	0.20	kW
Thermostat-off mode	PTO	0.030	kW	Type of energy input	Electricity		
Standby mode	PSB	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	-	4650	m^3/h
Sound power level, indoors/outdoors	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	**2391**	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

Product Fiche

Technical parameters							
Model(s):	Outdoor unit：ACHP-H12/5R3HA-O						
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	12.5	kW	Seasonal space heating energy efficiency	%	**171**	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coeffient 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	**12.30**	kW	Tj = +2°C	COPd	2.31	-
Tj = +7°C	Pdh	8.04	kW	Tj = +7°C	COPd	3.86	-
Tj = +12°C	Pdh	**3.57**	kW	Tj = +12°C	COPd	5.70	-
Tj = bivalent temperature	Pdh	8.04	kW	Tj = bivalent temperature	COPd	3.86	-
Tj = operation limit temperature	Pdh	**12.30**	kW	Tj = operation limit temperature	COPd	2.31	-
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	2	°C
Cycling interval capacity for heating	Pcych	-	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	**POFF**	0.020	kW	Rated heat output (*)	Psup	0.20	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	-	4650	m^3/h
Sound power level, indoors/outdoors	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**	**3831**	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	Hwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfbel	-	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

Product Fiche

Technical parameters							
Model (s):		Outdoor unit：ACHP-Hi2/5R3HA-O					
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	12.2	kW	Seasonal space heating energy efficiency	Is	**190**	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	10.79	kW	Tj = -7°C	COPd	3.02	-
Tj = +2°C	Pdh	6.57	kW	Tj = +2°C	COPd	4.83	-
Tj = +7°C	Pdh	4.22	kW	Tj = +7°C	COPd	6.27	-
Tj = +12°C	Pdh	1.88	kW	Tj = +12°C	COPd	9.38	-
Tj = bivalent temperature	Pdh	10.79	kW	Tj = bivalent temperature	COPd	3.02	-
Tj = operation limit temperature	Pdh	**10.1**	kW	Tj = operation limit temperature	COPd	2.61	-
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	Pcych	-	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	POFF	0.020	kW	Rated heat output (*)	Psup	2.10	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	-	4650	m^3/h
Sound power level, indoors/outdoors	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	5230	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

Product Fiche

Technical parameters							
Model(s):	Outdoor unit: ACHP-H12/5R3HA-O						
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	14.1	kW	Seasonal space heating energy efficiency	Hs	171	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coeffient 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	13.96	kW	Tj = +2°C	COPd	2.61	-
Tj = +7°C	Pdh	9.25	kW	Tj = +7°C	COPd	3.65	-
Tj = +12°C	Pdh	4.19	kW	Tj = +12°C	COPd	5.86	-
Tj = bivalent temperature	Pdh	9.25	kW	Tj = bivalent temperature	COPd	3.65	-
Tj = operation limit temperature	Pdh	14.96	kW	Tj = operation limit temperature	COPd	2.61	-
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	**Pcych**	-	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	2.84	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	-	4650	m^3/h
Sound power level, indoors/outdoors	L_{WA}	43/64	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}	4327	kWh				
For heat pump combination heater							
Declaed 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						

(*) 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

Product Fiche

Technical parameters							
Model(s):		Outdoor unit：ACHP-Hl2/5R3HA-O					
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 o)	Prated	11.4	kW	Seasonal space heating energy efficiency	n_s	**159**	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	7.05	kW	Tj = -7°C	COPd	3.48	-
Tj = +2°C	Pdh	4.67	kW	Tj = +2°C	COPd	4.96	-
Tj = +7°C	Pdh	3.14	kW	Tj = +7°C	COPd	6.10	-
Tj = +12°C	Pdh	3.57	kW	Tj = +12°C	COPd	7.87	-
Tj = bivalent temperature	Pdh	9.28	kW	Tj = bivalent temperature	COPd	2.59	-
Tj = operation limit temperature	Pdh	7.01	kW	Tj = operation limit temperature	COPd	1.98	-
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	Pcych	-	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				Supplemantary heater			
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	4.39	kW
Thermostat-off mode	P TO	0.030	kW	Type of energy input	Electricity		
Standby mode	「SB	0.020	kW				
Crankcase heater mode	P（DK	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m^3/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-/bri ne-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	QHE	**6926**	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	Hwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfbel	-	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

Product Fiche

Technical parameters							
Model(s):	Outdoor unit: ACHP-H 12/5R3HA-O						
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	10.3	kW	Seasonal space heating energy efficiency	Os	**117**	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	6.63	kW	Tj = -7°C	COPd	2.63	-
Tj = +2°C	Pdh	4.06	kW	Tj = +2°C	COPd	3.60	-
Tj = +7°C	Pdh	2.78	kW	Tj = +7°C	COPd	4.54	-
Tj = +12°C	Pdh	3.33	kW	Tj = +12°C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.41	kW	Tj = bivalent temperature	COPd	1.84	-
Tj = operation limit temperature	Pdh	4.19	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	**Pcych**	-	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				Supplemantary heater			
Off mode	P OFF	0.020	kW	Rated heat output (*)	Psup	6.11	kW
Thermostat-off mode	PTO	0.030	kW	Type of energy input	Electricity		
Standby mode	P SB	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	-	4000	m^3/h
Sound power level, indoors/outdoors	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	8453	kWh				
For heat pump combination heater							
Declaed 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						

(*) 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