			Tec	chnical parameters							
Model(s):				*	ACHP-H1	4/5R3H	4-M				
ir-to-water heat ump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:											
Low-temperature heat pump:			no								
Equipped with a supplementary he	eater:	no									
Heat pump combination heater:		no									
Declared climate condition		Warme	r								
Declared temperature application	1	Low		T	1						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	12.1	kW	Seasonal space heating energy efficiency	ηs	259	%				
Declared capacity for heating for part 20°C and outdoor temperature Tj	load at indo	or tempe	rature	Declared coefficient of performance or primar indoor temperature 20°C and outdoor and outdo		atio for p	art load				
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	_	-				
$T_j = +2^{\circ}C$	Pdh	12.00	kW	Tj= +2°C	COPd	3.44	_				
$Tj = +7^{\circ}C$	Pdh	7.78	kW	Tj= +7°C	COPd	5.84	-				
$\Gamma j = +12^{\circ}C$	Pdh	3.75	kW	Tj=+12°C	COPd	8.25	_				
Tj = bivalent temperature	Pdh	7.78	kW	Tj = bivalent temperature	COPd	5.84	_				
$\Gamma_j = \text{operation limit temperature}$	Pdh	12.00	kW	Tj = operation limit temperature	COPd	3.44	_				
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	Peych	-	kW	Cycling interval efficiency	СОРсус	-	_				
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C				
Power consumption in modes other	er than act	ive mod	e	Supplemantary heater	1	1	I				
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	0.10	kW				
				1 ()		I	I				
Thermostat-off mode	PTO PSB	0.030	kW								
Standby mode	-	0.020	kW	Type of energy input] '	Electricit	у				
Crankcase heater mode	P CK	0.000	kW								
Other items	1			In .	1	1	ı				
Capacity control		/ariable		For air-to-water heat pumps: Rated airflow rate, outdoors	_	4650	m ³ /l				
Sound power leveL	Lwa	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_	-	m ³ /l				
Annual energy consumption	QHE	2463	kWh	exchanger							
For heat pump combination heater											
Declaed load profile		=		Water heating energy efficiency	Hwh	-	%				
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWl				
Contact details	AUX Co 1166 Mii		North	Road, Jiangshan Yinzhou District, Ningbo, 3	15191 Zh	ejiang, C	hina				

^(*) 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

				Technical parameters					
Model(s):		ACHP-	H14/4F	•	HP-H14/5	R3HA-M			
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 supplementar	y heater:	no							
Heat pump combination heate		no							
Declared climate condition		Warme	r						
Declared temperature applicat	ion	Mediun	n						
Item	Symbol	Value Unit Item				Value	Unit		
Rated heat output(*)	Prated	14.1	kW	Seasonal space heating energy efficiency	ηs	175	%		
Declared capacity for heating for temperature 20°C and outdoor ten			1	Declared coefficient of performance or primary er indoor temperature 20°C and outdoor temperatu		for part l	oad at		
Tj = -7°C	Pdh	_	kW	$Ti = -7^{\circ}C$	COPd	-	_		
Tj = +2°C	Pdh	14.0	kW	Tj=+2°C	COPd	2.42	-		
$Ti = +7^{\circ}C$	Pdh	9.06	kW	Tj= +7°C	COPd	3.53	_		
$T_{i} = +12^{\circ}C$	Pdh	4.03	kW	Tj=+12°C	COPd	6.16	_		
Tj = bivalent temperature	Pdh	9.06	kW	Tj = bivalent temperature	COPd	3.53	-		
Tj = operation limit temperature	Pdh	14.00	kW	Tj = operation limit temperature	COPd	2.42	_		
For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)	Pdh	_	kW	For air-to-water heat pumps: $T_i = -15$ °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			nodo	Supplemantary heater	1				
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	0.10	kW		
				Rated fical output ()	1 sup	0.10	K VV		
Thermostat-off mode	PTO PSB	0.030							
Standby mode	1	0.020	kW	Type of energy input		Electricity			
Crankcase heater mode	P CK	0.000	kW						
Other items									
Capacity control	\	⁷ ariable		For air-to-water heat pumps: Rated airflow rate, outdoors	-	4650	m ³ /h		
Sound power leveL	Lwa	-	dΒ	For water-/brine-to-water heat pumps:Rated		_	m ³ /h		
Annual energy consumption	QHE	4235	kWh	brine or water flow rate, outdoor heat exchanger					
For heat pump combination he	eater				T				
Declaed load profile		-		Water heating energy efficiency	Hwh	-	%		
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh		
Contact details	AUX Co 1166 Mir		North	Road, Jiangshan Yinzhou District, Ningbo, 3151	91 Zhejiar	ng, China			
Pdesignh, and the rated heat o	utput of a	supplem	entary	ation heaters, the rated heat output Prated is equal heater Psup is equal to the supplementary capaci default degradation coefficient is Cdh = 0.9		-			

			Tecl	nnical parameters						
Model(s):		ACHP-H14/4R3HA-ME ACHP-H14/4R3HA-M (NE) ACHP-H14/5R3HA-M								
Air-to-water heat ump:		ves								
Water-to-water heat pump:		no								
Brine-to-water heat pump:		no								
Low-temperature heat pump:		no								
Equipped with a supplementary hear	ter:	no								
Heat pump combination heater:		no								
Declared climate condition		Average	e							
Declared temperature application	I	Low		T		l				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output(*)	Prated	14.5	kW	Seasonal space heating energy efficiency	ηs	188	%			
Declared capacity for heating for part load at indoo 20 °C and outdoor temperature Tj			ture	Declared coefficient of performance or primary energy ratio for part lo indoor temperature 20°C and outdoor temperature Tj						
Tj = -7°C	Pdh	12.83	kW	Tj = -7°C	COPd	3.00	-			
Tj = +2°C	Pdh	7.81	kW	Tj = +2°C	COPd	4.74	-			
Tj = +7°C	Pdh	5.02	kW	$Tj = +7^{\circ}C$	COPd	5.82	-			
Tj = +12°C	Pdh	2.23	kW	Tj = +12°C	COPd	9.20	-			
Tj = bivalent temperature	Pdh	12.83	kW	Tj = bivalent temperature	COPd	3.00	-			
Tj = operation limit temperature	Pdh	11.46	kW	Tj = operation limit temperature	COPd	2.73	ı			
For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps: $T_i = -15$ °C(ifTOL<-20°C)	COPd	-	1			
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	СОРсус	-	-			
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other	than activ	e mode		Supplemantary heater						
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	3.4	kW			
Thermostat-off mode	P TQ	0.030	kW		•					
Standby mode	PSB	0.020	kW	Type of energy input	1	Electricity				
Crankcase heater mode	PcK	0.000	kW							
Other items	•	•	•							
Capacity control	1	⁷ ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h			
Sound power level	LWA	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_	_	m ³ /h			
Annual energy consumption	QHE	6257	kWh	exchanger						
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. 1166 Mir	, Ltd		Road, Jiangshan Yinzhou District, Ningbo, 3	15191 Zh	ejiang, C	hina			

^(*) 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

			<u>Techr</u>	nical parameters						
Model(s):		ACHP-	ACHP-H14/4R3HA-ME ACHP-H14/4R3HA-M (NE) ACHP-H14/5R3HA-M							
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	er:	no								
Heat pump combination heater:		no								
Declared climate condition		Averag								
Declared temperature application		Mediun	edium							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output(*)	Prated	14	kW	Seasonal space heating energy efficiency	ηs	137	%			
Declared capacity for heating for part load and outdoor temperature Tj	at indoor	temperatu	ıre 20°C	Declared coeffient of performance or primat indoor temperature 20°C and outdoor te			part lo			
Tj = -7°C	Pdh	12.38	kW	Tj = -7°C	COPd	2.06	_			
Tj = +2°C	Pdh	7.54	kW	$Tj = +2^{\circ}C$	COPd	3.50	_			
Tj = +7°C	Pdh	4.85	kW	$Tj = +7^{\circ}C$	COPd	4.33	-			
$Tj = +12^{\circ}C$	Pdh	2.15	kW	Tj = +12°C	COPd	6.97	-			
Tj = bivalent temperature	Pdh	12.38	kW	Tj = bivalent temperature	COPd	2.06	_			
Tj = operation limit temperature	Pdh	10.50	kW	Tj = operation limit temperature	COPd	1.80	-			
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	1	-			
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other the	han activ	e mode		Supplemantary heater						
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	3.5	kW			
Thermostat-off mode	Рто	0.030	kW							
Standby mode	PSB	0.020	kW	Type of energy input		Electricity	,			
Crankcase heater mode	РСК	0.000	kW	1 1		_				
Other items		0.000	11.	<u> </u>	1					
Capacity control	7	Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4650	m ³ /h			
Sound power leveL	LWA	64	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	_	_	m ³ /h			
Annual energy consumption	Qне	8251	kWh	outdoor heat exchanger			411 / II			
For heat pump combination heater	`	•	•		•					
Declaed load profile		-		Water heating energy efficiency	Qwh	_	%			
1	Qelec	_	kWh	Daily fuel consumption	Qfuel	_	kWh			
	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, Chi									

⁻³⁵⁻

			Tech	nnical parameters						
Model ⑥:	ACHP-		4/4R3HA-ME ACHP-H14/4R3HA-M(NE) ACHP-H14/5R3HA-M							
Air-to-water heat ump:		yes								
Water-to-water heat pump:		no								
		no								
		no								
Equipped with a supplementary heat	ter:	no								
Heat pump combination heater:		no								
Declared climate condition		Colder								
Declared temperature application	ı	Low	1		1					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output(*)	Prated	12.6	kW	Seasonal space heating energy efficiency	ηs	159	%			
Declared capacity for heating for part load at indoor t 20 °C and outdoor temperature Tj			ture	Declared coefficient of performance or primary indoor temperature 20°C and outdoor temperature 20°C.		atio for p	art load a			
Tj = -7°C	Pdh	7.96	kW	Tj = -7°C	COPd	3.44	-			
Tj = +2°C	Pdh	5.05	kW	Tj = +2°C	COPd	4.92	-			
Tj = +7°C	Pdh	3.15	kW	$Tj = +7^{\circ}C$	COPd	6.11	-			
Tj = +12°C	Pdh	3.57	kW	Tj = +12°C	COPd	7.82	-			
Tj = bivalent temperature	Pdh	10.31	kW	Tj = bivalent temperature	COPd	2.53	-			
Tj = operation limit temperature	Pdh	7.57	kW	Tj = operation limit temperature	COPd	1.92	-			
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	-	ı			
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	°C			
Power consumption in modes other	than activ	e mode	ı	Supplemantary heater	Į.					
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	5.03	kW			
Thermostat-off mode	Рто	0.030	kW	• ` ` `	•	•				
Standby mode	PSB	0.020	kW	Type of energy input]	Electricit	y			
Crankcase heater mode	РСК	0.000	kW	1						
Other items	1 CK	1 0.000	17. 4.4	<u>I</u>	<u> </u>					
Capacity control	V	variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4650	m ³ /h			
Sound power level	LWA	_	dB	For wate r-/b ri ne-to-wate r heat pumps:Rated brine or water flow rate,	_		m ³ /h			
Annual energy consumption	Оне	7685	kWh	outdoor heat exchanger	_	-	111 /11			
For heat pump combination heater	Q _{III}	1 , 505	µ± 1111	1	l	1	1			
Declaed load profile		_		Water heating energy efficiency	Qwh	_	%			
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfuel	_	kWh			
Contact details	AUX Co.	, Ltd	I	Road, Jiangshan Yinzhou District, Ningbo, 3		1				

^(*) 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

			Techr	nical parameters						
Model(s):		ACHP-H14/4R3HA-ME ACHP-H14/4R3HA-M(NE) ACHP-H14/5R3HA-M								
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: Declared climate condition		no Colder								
Declared temperature application		Mediun	n							
				L		L				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output(*)	Prated	11.0	kW	Seasonal space heating energy efficiency	ηs	118	%			
Declared capacity for heating for part load and outdoor temperature Tj	l at indoor	temperatu	ıre 20°C	Declared coeffient of performance or primate at indoor temperature 20°C and outdoor te			r part loa			
$Tj = -7^{\circ}C$	Pdh	6.89	kW	Tj = -7°C	COPd	2.66	-			
$T\dot{j} = +2^{\circ}C$	Pdh	4.32	kW	$Tj = +2^{\circ}C$	COPd	3.66	-			
Tj = +7°C	Pdh	3.06	kW	$Tj = +7^{\circ}C$	COPd	4.72	_			
Tj = +12°C	Pdh	3.33	kW	Tj = +12°C	COPd	6.25	-			
Tj = bivalent temperature	Pdh	8.94	kW	Tj = bivalent temperature	COPd	1.79	_			
Tj = operation limit temperature	Pdh	4.20	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: $T_j = -15$ °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 t	han activ	e mode		Supplemantary heater						
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	6.80	kW			
Thermostat-off mode	Рто	0.030	kW		Î	•	•			
Standby mode	PSB	0.020	kW	Type of energy input	,	Electricity				
Crankcase heater mode	РСК	0.000	kW							
Other items										
Capacity control	1	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h			
Sound power leveL	LWA	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	_	_	m ³ /h			
Annual energy consumption	Qне	8937	kWh	outdoor heat exchanger						
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, C									