			Tec	chnical parameters			
Model(s):		ACHP-		R3HA-ME			
Air-to-water heat ump:							
Water-to-water heat pump: no							
Brine-to-water heat pump: no							
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	_	Low					
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 load at indoor temperature 20°C and outdoor temperature Tj				Seasonal space heating energy efficiency Declared coefficient of performance or primary energy ratio for part load indoor temperature 20°C and outdoor temperature Tj Cj = -7°C COPd - Cj = +2°C COPd 3.44 - Cj = +12°C COPd 5.84 - Cj = bivalent temperature COPd 5.84 - Cj = operation limit temperature COPd 5.84 - Copd 5.84 - Copd Copd 6.84 - Copd 6.84			
Γj = -7°C	Pdh	-	kW	Ti = -7°C	COPd	-	-
Tj = +2°C	Pdh	12.00	kW	Tj=+2°C	COPd	3.44	-
Tj = +7°C	Pdh	7.78	kW	Tj= +7°C	COPd	5.84	-
Tj = +12°C	Pdh	3.75	kW	Tj=+12°C	COPd	8.25	-
Tj = bivalent temperature	Pdh	7.78	kW	Tj = bivalent temperature	COPd	5.84	-
Γj = 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: Ti = -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	СОРсус	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other	er than act	ive mode	e.	Sunnlemantary heater	l	1	ı
Off mode	POFF		kW	Rated heat output (*)	Psup	0.10	kW
Thermostat-off mode	Dmo	0.030	kW		-		
	PTO PSB	0.030	kW	Tung of angray input	,	Electricit	.,
Standby mode	+		+	1 ype of energy input	'	_iccurcit	у
Crankcase heater mode	P CK	0.000	kW				
Other items	1			I			
Capacity control	\ \ \ \	/ariable		For air-to-water heat pumps: Rated airflow 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	-		m³/h
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	-	kWh
Contact details	AUX Co 1166 Mii		North	Road, Jiangshan Yinzhou District, Ningbo, 3	15191 Zho	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-	H14/5I	R3HA-ME			
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 heater	r:	no					
Declared climate condition		Warmer					
Declared temperature applicati	ion	Mediun	n		4-		
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output(*)	Prated	14.1	kW	Seasonal space heating energy efficiency	ηs	175	%
Declared capacity for heating for permeter 20°C and outdoor tem				Declared coefficient of performance or primary er indoor temperature 20°C and outdoor temperature		for part le	oad a
Гj = -7°С	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = +2°C	Pdh	14.0	kW	Tj= +2°C	COPd	2.42	-
Tj = +7°C	Pdh	9.06	kW	Tj=+7°C	COPd	3.53	-
Tj = +12°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: Γj = -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 of	other than	active r	node	Supplemantary heater			
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	0.10	kW
Thermostat-off mode	Рто	0.030	kW				
Standby mode	PSB			Type of energy input	,	Electricity	,
· · · · · · · · · · · · · · · · · · ·	-	-	-	- 1 JPC OI OHOIGY INPUT	'	ыссинску	
Crankcase heater mode	P CK	0.000	kW				
Other items	45			150	-		
Capacity control	V	ariable		For air-to-water heat pumps: Rated airflow rate, outdoors	-	4650	m ³ /
Sound power leveL	Lwa	-	dB	For water-/brine-to-water heat pumps:Rated	_	_	m^3
Annual energy consumption	QHE	4235	kWh	brine or water flow rate, outdoor heat exchanger			
For heat pump combination he	ater						
Declaed load profile		-		Water heating energy efficiency	Hwh	-	%
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfuel	- 1	kW
	AUX Co	., Ltd		Road, Jiangshan Yinzhou District, Ningbo, 31519			

			Tecl	nnical parameters								
Model(s): ACHP			ACHP-H14/5R3HA-ME									
Air-to-water heat ump:			yes									
			no									
Brine-to-water heat pump:		no										
Low-temperature heat pump:		no										
Equipped with a supplementary heat	ter:	no										
Heat pump combination heater:		no										
Declared climate condition		Average	e									
Declared temperature application		Low		T	Ι		Ī					
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 loa 20 °C and outdoor temperature Tj	ad at indoor	r tempera	ture	Seasonal space heating energy efficiency Declared coefficient of performance or primary energy ratio for part load a indoor temperature 20°C and outdoor temperature Tj Tj = -7°C COPd 3.00 Tj = +2°C COPd 4.74 Tj = +7°C COPd 5.82 Tj = +12°C COPd 9.20 Tj = bivalent temperature COPd 3.00 Tj = operation limit temperature COPd 2.73 For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C) For air-to-water heat pumps: Operation limit TOL -10 °C								
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	-					
$Tj = +7^{\circ}C$	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	-					
For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps: Ti = -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 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]]	Electricity						
Crankcase heater mode	PcK	0.000	kW	1								
Other items					I							
Capacity control	V	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	l -	kWh	Daily fuel consumption	Qfuel	-	kWh					
Contact details	AUX Co. 1166 Mir			Road, Jiangshan Yinzhou District, Ningbo, 3	15191 Zh	ejiang, C						

^(*) 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

		1		nical parameters								
Model(s):			ACHP-H14/5R3HA-ME									
•			yes									
· ·		no										
		no										
Low-temperature heat pump:												
Equipped with a supplementary heat	er:	no										
Heat pump combination heater: Declared climate condition		no Averag	-									
Declared temperature application			Medium									
-				L								
Item De 11 de 12	Symbol	Value		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	l at indoor	temperatu	ire 20°C	Declared coeffient of performance or primate indoor temperature 20°C and outdoor te			part lo					
Tj = -7°C	Pdh	12.38	kW	Tj = -7°C	COPd	2.06	-					
$Tj = +2^{\circ}C$	Pdh	7.54	kW	$Tj = +2^{\circ}C$	COPd	3.50	-					
$Tj = +7^{\circ}C$	Pdh	4.85	kW	$Tj = +7^{\circ}C$	COPd	4.33	-					
Tj = +12°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	-	-					
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C					
Power consumption in modes other t	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			-						
Other items		0.000	12.11	<u> </u>	1							
Capacity control	,	/ariable		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	QHE	8251	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 1166 Mii		North	Road, Jiangshan Yinzhou District, Ningbo,	315191 Z	Thejiang, (China					

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

			Teck	nnical parameters								
Model 6:	АСНР											
Air-to-water heat ump:		ACHP-H14/5R3HA-ME ves										
• •		no										
1 1		no										
Low-temperature heat pump: Equipped with a supplementary heat	tor		no									
Heat pump combination heater:		no	no ma									
Declared climate condition		Colder										
Declared temperature application		Low										
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 loa 20 °C and outdoor temperature Tj	ad at indoo	r tempera	ture	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj $Tj = -7^{\circ}C \qquad \qquad COPd \qquad 3.44 \qquad -$								
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	-					
$Tj = +7^{\circ}C$	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	СОРсус	-	-					
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	°C					
Power consumption in modes other	than activ	e mode		Supplemantary heater		•						
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	I	Electricity						
Crankcase heater mode	Рск	0.000	kW									
Other items												
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h					
Sound power level	LWA	-	dB	For wate r-/b ri ne-to-wate r heat pumps:Rated brine or water flow rate,	-	-	m³/h					
Annual energy consumption	QHE	7685	kWh	outdoor heat exchanger								
For heat pump combination heater		1 . 355		1	1	1	1					
Declaed load profile		_		Water heating energy efficiency	Qwh	_	%					
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh					
Contact details	AUX Co. 1166 Mir			Road, Jiangshan Yinzhou District, Ningbo, 3	15191 Zho	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

		1		nical parameters								
Model(s):			ACHP-H14/5R3HA-ME									
Air-to-water heat ump:		yes										
Water-to-water heat pump:		no										
Brine-to-water heat pump:		no										
1 1		no										
Equipped with a supplementary heat	er:	no	no									
Heat pump combination heater: Declared climate condition		no Colder										
Declared temperature application			Aedium									
]								
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 t	emperatu	ire 20°C	Declared coeffient of performance or primat indoor temperature 20°C and outdoor te			r part loa					
Tj = -7°C	Pdh	6.89	kW	Tj = -7°C	COPd	2.66	-					
$Tj = +2^{\circ}C$	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: 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 t	han active	e mode		Supplemantary heater								
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	6.80	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									
Other items		0.000	IX VV									
Capacity control	V	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,	_	_	m³/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.		North:	Road, Jiangshan Yinzhou District, Ningbo,	315191 Z	Theiiang.	China					

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