			т	echnical parameters							
Model(s):		Outdoo		ACHP-H 12/5R3HA-O Indoor unit: ACHP-H12	/5R3HA-I						
Air-to-water heat ump:			yes								
			no								
Brine-to-water heat pump:			10								
Low-temperature heat pump:			)								
			10								
Heat pump combination heater:											
Declared climate condition Warmer											
Declared temperature application	n	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				Seasonal space heating energy efficiency  Declared coefficient of performance or primary energy ratio for part load indoor temperature 20°C and outdoor temperature Tj  Tj = -7°C			load at				
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	$Tj = +7^{\circ}C$	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	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	harthan a	ativa ma	da	Sumplementary heater	1						
Off mode	POFF	0.020	kW	•	Psun	0.20	kW				
				raica near carpar ( )	Тоар	0.20	11.11				
Thermostat-off mode Standby mode	PTO	0.030	kW kW	Type of energy input		Flectricity					
•				13pc of energy input	'	Licenienty					
Crankcase heater mode	P CK	0.000	kW		1						
Other items					_						
Capacity control	1	Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m <sup>3</sup> /h				
Sound power level,	Lwa	_	dB	For water-/brine-to-water heat pumps:Rated							
indoors/outdoors	2		412	brine or water flow rate, outdoor heat	-	-	$m^3/h$				
Annual energy consumption	QHE	2391	kWh	exchanger							
For heat pump combination heat	er										
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 l	Road, Jiangshan Yinzhou District, Ningbo, 315	191 Zhejia	ng, China					

<sup>(\*)</sup> 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

				chnical parameters							
Model(s):		Outdoo	r unit:	ACHP-H12/5R3HA-O Indoor unit: ACHP-	H12/5R3H	IA-I					
Air-to-water heat ump:		yes									
Water-to-water heat pump:			10								
Brine-to-water heat pump:		no	10								
Low-temperature heat pump:			0								
Equipped with a supplementary heater:											
Heat pump combination heater:											
Declared temperature application	temperature application Medium			_							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	14.1	kW	Seasonal space heating energy efficiency	%	171	%				
Declared capacity for heating for part loand outdoor temperature Tj	ad at indoor	temperatu	ire 20°C	Seasonal space heating energy efficiency % 171 %  Declared coefficient of performance or primary energy ratio for part load indoor temperature 20°C and outdoor temperature Tj  Tj = -7°C COPd COPd 2.61 - COPd 3.65 - COPd 3.65 - COPd 5.86 - COP							
Tj = -7°C	Pdh	-	kW	Ti = -7°C	COPd	-	-				
$T_i = +2$ °C	Pdh	13.96	kW	$T_i = +2^{\circ}C$	COPd	2.61	_				
$T_i = +7^{\circ}C$	Pdh	9.25	kW	$T_i = +7^{\circ}C$	COPd	3.65	_				
$T_i = +12$ °C	Pdh	4.19	kW		COPd	5.86	_				
$T_i = bivalent temperature$	Pdh	9.25	kW			$\vdash$					
$T_j = \text{operation limit temperature}$	Pdh	14.96	kW	1		<del>                                     </del>					
<u> </u>		14.50	K VV		COFu	2.01					
For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)	Pdh	-	kW	-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 oth	er than ac	tive mod	e	Supplementary heater							
Off mode					Dane	0.20	1-337				
Thermostat-off mode	POFF PTO	0.020		Rated heat output (*)	Psup	0.20	K VV				
Standby mode	PSB	0.020		Type of energy input		Electricity					
•						,					
Crankcase heater mode Other items	Рск	0.000	kW								
Ouici Iteliis	1			For air to water heat summer Dated air floor							
Capacity control	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m <sup>3</sup> /h				
Sound power level,	LWA	_	dB	For water-/brine-to-water heat pumps:Rated							
indoors/outdoors	1			brine or water flow rate, outdoor heat	-	-	$m^3/h$				
Annual energy consumption	Qне	3831	kWh	exchanger							
For heat pump combination heate	er										
Declaed load profile		-		Water heating energy efficiency	Hwh	_	%				
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfbel	-	kWh				
Contact details	AUX Co	I	1	1	1	1					

<sup>(\*)</sup> 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

				echnical parameters							
			r unit:	ACHP-H12/5R3HA-O Indoor unit: ACHP-H1	2/5R3HA	-I					
<u> </u>		yes									
Water-to-water heat pump:		no	10								
Brine-to-water heat pump:		no	10								
Low-temperature heat pump:		no	10								
Equipped with a supplementary h	neater:	no	10								
<u> </u>		no	no Average								
Declared climate condition			•								
Declared temperature application		Low		1		1					
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				Seasonal space heating energy efficiency  Declared coefficient of performance or primary energy ratio for part load indoor temperature 20°C and outdoor temperature Tj  Fig = -7°C  COPd 3.02  - Fig = +7°C  COPd 6.27  - Fig = +12°C  COPd 9.38  - Fig = operation limit temperature  COPd 3.02  - Fig = operation limit temperature  COPd 2.61  - For air-to-water heat pumps:  Fig = -15°C(ifTOL<-20°C)  For air-to-water heat pumps: Operation limit emperature  Cycling interval efficiency  COPcyc  Heating water operating limit temperature  Rated heat output (*)  Psup 2.10  kW  For air-to-water heat pumps: Rated air flow  For air-to-water heat pumps: Rated air flow  For air-to-water heat pumps: Rated air flow							
$\Gamma \dot{j} = -7^{\circ} C$	Pdh	10.79	kW	Tj = -7°C	COPd	3.02	-				
$\Gamma j = +2^{\circ}C$	Pdh	6.57	kW	Tj = +2°C	COPd	4.83	-				
$\Gamma j = +7^{\circ}C$	Pdh	4.22	kW	$Tj = +7^{\circ}C$	COPd	6.27	-				
$\Gamma j = +12^{\circ}C$	Pdh	1.88	kW	Tj = +12°C	COPd	9.38	-				
Γj = bivalent temperature	Pdh	10.79	kW	Tj = bivalent temperature	COPd	3.02	-				
$\Gamma_{i}$ = operation limit temperature	Pdh	10.1	kW	Ti = operation limit temperature	COPd	2.61	_				
For air-to-water heat pumps: $\Gamma$ <sub>j</sub> = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps:			-				
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C				
Cycling interval capacity for neating	Peych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C				
Power consumption in modes oth	er than ac	tive mod	9	Sunnlamentery haster	1	1					
Off mode	Poff	0.020	kW	1	Deup	2 10	1-W/				
JII IIIode	TOIT			Rated heat output ( )	1 sup	2.10	K VV				
Thermostat-off mode	Рто	0.030	kW								
Standby mode	PsB	0.020	kW	Type of energy input	1	Electricity	7				
Crankcase heater mode	PCK	0.000	kW								
Other items											
Capacity control	7	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m <sup>3</sup> /h				
Sound power level, ndoors/outdoors	LWA	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_	_	m³/h				
Annual energy consumption	QHE	5230	kWh	exchanger			/ 1.				
For heat pump combination heater		1 3230	px 17 11		1						
Declaed load profile		_		Water heating energy efficiency	Hwh	_ [	%				
Daily electricity consumption			kWh								
Contact details	AUX Co		•	Daily fuel consumption  Road, Jiangshan Yinzhou District, Ningbo, 315	Qfuel - kW						

<sup>(\*)</sup> 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

				chnical parameters							
Model(s): Outdoor u				ACHP-H12/5R3HA-O Indoor unit: ACHP-H12/5R3HA-I							
Air-to-water heat ump:			yes								
Water-to-water heat pump:			no								
Brine-to-water heat pump:			no								
Low-temperature heat pump:			10								
Equipped with a supplementary heater:			10								
<u> </u>			no								
Declared climate condition Av											
Declared temperature application	n T	Mediun	1	T							
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 land outdoor temperature Tj	oad at indoo	r temperat	ture 20°C	Declared coeffient of performance or primary indoor temperature 20°C and outdoor temper		tio for pa	rt load				
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-				
Tj = +2°C	Pdh	13.96		$Tj = +2^{\circ}C$	COPd	2.61	-				
Tj = +7°C	Pdh	9.25		$Tj = +7^{\circ}C$	COPd	3.65	-				
$Tj = +12^{\circ}C$	Pdh	4.19			COPd	5.86	_				
$T_i = bivalent temperature$	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)		-	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	СОРсус	-	-				
Degradation co-efficient(**)	Cdh	0.9	_	Heating water operating limit temperature	WTOL	60	°C				
Power consumption in modes of	her than ac	ctive mo	de.	Supplemantary heater							
Off mode	P OFF	0.020	kW	Rated heat output (*)	Psup	2.84	kW				
Thermostat-off mode	PTO	0.030	kW	( )							
				Type of energy input	_	laatriaitu					
Standby mode	P SB	0.020	kW	Type of energy input	Electricity						
Crankcase heater mode	PCK	0.000	kW								
Other items	1										
Capacity control	'	ariable	_	For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m <sup>3</sup> /h				
Sound power level, indoors/outdoors	LWA	43/64	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat	_	-	m³/h				
Annual energy consumption	QHE	4327	kWh	exchanger							
For heat pump combination heat	er										
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										

<sup>(\*)</sup> 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

				nical parameters							
Model(s):			Outdoor unit: ACHP-Hl2/5R3HA-O Indoor unit: ACHP-H12/5R3HA-I								
Air-to-water heat ump:											
Water-to-water heat pump:											
Brine-to-water heat pump:											
Low-temperature heat pump:											
Equipped with a supplementary heater	er:	no									
Heat pump combination heater:		no Colder									
Declared climate condition											
Declared temperature application	1	Low			1						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output O	Prated	11.4	kW	Seasonal space heating energy efficiency	n <sub>s</sub>	159	%				
Declared capacity for heating for part load at outdoor temperature Tj	indoor tem	perature 2	0°C and	Declared coeffient of performance or prima at indoor temperature 20°C and outdoor ter			part loa				
Tj = -7°C	Pdh	7.05	kW	Tj = -7°C	COPd	3.48	-				
Tj = +2°C	Pdh	4.67	kW	$Tj = +2^{\circ}C$	COPd	4.96	_				
$Tj = +7^{\circ}C$	Pdh	3.14	kW	$Tj = +7^{\circ}C$	COPd	6.10	-				
Tj = +12°C	Pdh	3.57	kW	$T_j = +12$ °C	COPd	7.87	_				
Tj = bivalent temperature	Pdh	9.28	kW	Tj = bivalent temperature	COPd	2.59	_				
$T_i$ = 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	Peych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	°C				
Power consumption in modes other the	han active	mode	•	Supplemantary heater							
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	4.39	kW				
Thermostat-off mode	РТО	0.030									
Standby mode	「s <sub>B</sub>	0.020	kW	Type of energy input	E	Electricity	7				
Crankcase heater mode	P (DK	0.000	kW								
Other items			1								
Capacity control	V	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m <sup>3</sup> /h				
Sound power level, indoors/outdoors	LWA	-	dB	For water-/bri ne-to-water heat pumps:Rated brine or water flow rate,	_	_	m <sup>3</sup> /h				
Annual energy consumption	Оне	6926	kWh	outdoor heat exchanger			/ 11				
For heat pump combination heater	- Zur	, 2,20	1	1	I						
Declaed load profile		_		Water heating energy efficiency	Hwh	_	%				
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfbel	_	kWh				
Contact details	AUX Co.			Road, Jiangshan Yinzhou District, Ningbo,							

<sup>(\*)</sup> 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

		0.1		nical parameters	/5D2114						
Model(s):			Outdoor unit: ACHP-H 12/5R3HA-O Indoor unit: ACHP-H 12/5R3HA-I								
Air-to-water heat ump:			yes								
Water-to-water heat pump:											
1 1		no									
Low-temperature heat pump:											
111 11 2		no									
1 1		no Caldan									
Declared climate condition  Declared temperature application			Colder Medium								
-	Crumala o 1			Itam	Cranh al	Value	I India				
Rated heat output(*)	Symbol Prated	Value 10.3	Unit kW	Seasonal space heating energy efficiency	Symbol Os	Value <b>117</b>	Unit %				
	indoor temp	perature 20	)°C and	Declared coefficient of performance or primar indoor temperature 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor		atio for pa	art load a				
Tj = -7°C	Pdh	6.63	kW	$Tj = -7^{\circ}C$	COPd	2.63	-				
$Tj = +2^{\circ}C$	Pdh	4.06	kW	$Tj = +2^{\circ}C$	COPd	3.60	-				
Tj = +7°C	Pdh	2.78	kW	$Tj = +7^{\circ}C$	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	СОРсус	-	-				
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	°C				
Power consumption in modes other th	an 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								
Standby mode	P SB	0.020	kW	Type of energy input	]	Electricity	,				
Crankcase heater mode	<sup>p</sup> CK	0.000	kW								
Other items											
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	- 4000 m		m <sup>3</sup> /h				
Sound power level, indoors/outdoors	LWA	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	-	-	m³/h				
Annual energy consumption	QHE	8453	kWh	exchanger							
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. 1166 Mir		North :	Road, Jiangshan Yinzhou District, Ningbo, 3	15191 Zh	ejiang, Cl	nina				

<sup>(\*)</sup> 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