			Т	echnical parameters								
Model(s):				аснр-н 12/5R3HA-O								
Air-to-water heat ump:		yes	/es									
Water-to-water heat pump:			no									
Brine-to-water heat pump:		no	no									
Low-temperature heat pump:		no	10									
Equipped with a supplementary	heater:	no	10									
Heat pump combination heater:		no										
Declared climate condition		Warmer	•									
Declared temperature application	1	Low										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	11.1	kW	Seasonal space heating energy efficiency	Hs	245	%					
			Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj $ \Gamma j = -7^{\circ}C \qquad COPd \qquad - \qquad - \\ \Gamma j = +2^{\circ}C \qquad COPd \qquad 3.59 \qquad - \\ \Gamma j = +7^{\circ}C \qquad COPd \qquad 5.87 \qquad - \\ \Gamma j = +12^{\circ}C \qquad COPd \qquad 7.94 \qquad - \\ \Gamma j = bivalent temperature \qquad COPd \qquad 5.87 \qquad - \\ $									
Гj = -7°С	Pdh	-	kW	Tj = -7°C	COPd	-	-					
Tj = +2°C	Pdh	10.90	kW	Tj = +2°C	COPd	3.59	-					
$Tj = +7^{\circ}C$	Pdh	7.14	kW	$Tj = +7^{\circ}C$	COPd	5.87	_					
$Tj = +12^{\circ}C$	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 of	her than a	ctive mo	de	Supplemantary heater								
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	0.20	kW					
					1 544							
Thermostat-off mode	PTO	0.030		T	,	D14 1 12						
Standby mode	PSB	0.020	kW	Type of energy input	'	Electricity	,					
Crankcase heater mode	P CK	0.000	kW									
Other items												
Capacity control	7	Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m <sup>3</sup> /h					
Sound power level,	Lw		ДD	For water-/brine-to-water heat pumps:Rated								
indoors/outdoors	LWA	-	dB	brine or water flow rate, outdoor heat	_	-	m <sup>3</sup> /h					
Annual energy consumption	Оне	2391	kWh	exchanger								
For heat pump combination heat					1							
Declaed load profile		_		Water heating energy efficiency	Hwh	-	%					
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfuel	_	kWh					
Contact details	AUX Co	., Ltd		Road, Jiangshan Yinzhou District, Ningbo, 315								

<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

			Та	chnical parameters						
Model(s):		Outdoo		ACHP-H12/5R3HA-O						
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 h	no									
Heat pump combination heater:	no	no								
Declared climate condition	Warmer	•								
Declared temperature application Medium			1							
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 coefficient of performance or primary energy ratio for part load a indoor temperature 20°C and outdoor temperature Tj $Tj = -7^{\circ}C \qquad COPd \qquad - \qquad - \\ Tj = +2^{\circ}C \qquad COPd \qquad 2.31 \qquad - \\ Tj = +7^{\circ}C \qquad COPd \qquad 3.86 \qquad - \\ Tj = +12^{\circ}C \qquad COPd \qquad 5.70 \qquad - \\ Tj = bivalent temperature \qquad COPd \qquad 3.86 \qquad - \\ Tj = operation limit temperature \qquad COPd \qquad 2.31 \qquad - \\ For air-to-water heat pumps: Tj = $						
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-			
$Tj = +2^{\circ}C$	Pdh	12.30	kW	$Tj = +2^{\circ}C$	COPd	2.31	-			
Tj = +7°C	Pdh	8.04	kW	$Tj = +7^{\circ}C$	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	er than act	ive mod	e	Supplemantary heater						
Off mode	Poff	0.020		Rated heat output (*)	Psup	0.20	kW			
Thermostat-off mode	Рто	0.030	kW			•				
Standby mode	PSB	0.020	kW	Type of energy input	1	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	m <sup>3</sup> /h			
Sound power level,	I 337.4		4D	For water-/brine-to-water heat pumps:Rated						
indoors/outdoors	LWA	_	dB	brine or water flow rate, outdoor heat	-	-	$m^3/h$			
Annual energy consumption	QнE	3831	kWh	exchanger						
For heat pump combination heate										
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, 315		iang, Chir				

<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

			Te	echnical parameters							
Model (s):				ACHP-Hi2/5R3HA-O							
Air-to-water heat ump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no	10								
Low-temperature heat pump:		no	10								
		no	10								
Heat pump combination heater:		no	10								
Declared climate condition		Average	•								
eclared temperature application Low				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 at indoor temperature 20°C and outdoor temperature Tj  Tj = -7°C  COPd  3.02  - Tj = +2°C  COPd  4.83  - Tj = +7°C  COPd  6.27  - Tj = +12°C  COPd  9.38  - Tj = bivalent temperature  COPd  7. Tj = operation limit temperature  COPd  COPd  2.61  - Tj = -15°C(ifTOL<-20°C)  For air-to-water heat pumps: Operation limit temperature  TOL  TOL  -10  °C							
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	-				
$Tj = +7^{\circ}C$	Pdh	4.22	kW	$Tj = +7^{\circ}C$	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	-				
$\Gamma$ j = operation limit temperature	Pdh	10.1	kW	Tj = operation limit temperature	COPd	2.61	-				
For air-to-water heat pumps: $\Gamma J = -15^{\circ}C(ifTOL < -20^{\circ}C)$	Pdh	-	kW	For air-to-water heat pumps: $T_i = -15^{\circ}C(ifTOL < -20^{\circ}C)$	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	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	Supplemantary heater	,						
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	2.10	kW				
					1544						
Thermostat-off mode	Рто	0.030	kW		_	71 . · · ·					
Standby mode	PSB	0.020	kW	Type of energy input	1	Electricity	ty				
Crankcase heater mode	PCK	0.000	kW								
Other items											
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-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_	_	m <sup>3</sup> /h				
Annual energy consumption	QHE	5230	kWh	exchanger			111 /11				
For heat pump combination heater		, 5250	pr / / 11	1	I	I					
Declaed load profile		_		Water heating energy efficiency	Hwh	_	%				
			LWL	c c, .			kWł				
Daily electricity consumption  Contact details	Qelec     -     kWh     Daily fuel consumption     Qfuel     -     kW       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

				chnical parameters							
			Outdoor unit: ACHP-H12/5R3HA-O								
Air-to-water heat ump:		yes									
		no									
1 1		no									
		no									
Equipped with a supplementary	neater:	no									
Heat pump combination heater:											
Declared climate condition Avera  Declared temperature application Media											
				L							
Item  Rated heat output(*)	Symbol Prated	Value 14.1	kW	Item Seasonal space heating energy efficiency	Symbol Hs	Value 171	Unit %				
Kated heat output(')	Prated	14.1	K VV	Seasonal space heating energy efficiency	пѕ	1/1	70				
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coeffient of performance or primary indoor temperature 20°C and outdoor temper		tio for pa	ırt load				
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-				
Tj = +2°C	Pdh	13.96	kW	Tj = +2°C	COPd	2.61	-				
$Tj = +7^{\circ}C$	Pdh	9.25	kW	$Tj = +7^{\circ}C$	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	Peych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C				
Power consumption in modes otl	ner than ac	tive 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								
Standby mode	P SB	0.020	kW	Type of energy input	E	Electricity	,				
Crankcase heater mode	PCK	0.000	kW	1							
Other items											
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	43/64	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat		_	m <sup>3</sup> /h				
Annual energy consumption	QHE	4327	kWh	exchanger	-	-	111-/11				
For heat pump combination heat	er				Г						
Declaed load profile	<u></u>			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):			r unit:	ACHP-H12/5R3HA-O							
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 heater:			no								
Heat pump combination heater:		no									
			Colder Low								
Declared temperature application	eclared temperature application			I							
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°C	Pdh	3.14	kW	$Tj = +7^{\circ}C$	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 th	nan active	mode		Supplemantary heater							
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	4.39	kW				
Thermostat-off mode	Р ТО	0.030			•						
Standby mode	「sB	0.020	kW	Type of energy input	E	Electricity	y				
Crankcase heater mode	P (DK	0.000	kW								
Other items											
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,	_	_	m³/h				
Annual energy consumption	Оне	6926	kWh	outdoor heat exchanger			/ -1				
For heat pump combination heater			•								
Declaed load profile		_		Water heating energy efficiency	Hwh	-	%				
•	Qelec	_	kWh	Daily fuel consumption	Qfbel	_	kWh				
	AUX Co.	, Ltd		Road, Jiangshan Yinzhou District, Ningbo,		iejiang, C					

<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

20.11()		la :		nical parameters							
Model(s):			r unit: A	АСНР-Н 12/5R3HA-O							
1			yes								
Water-to-water heat pump:											
Brine-to-water heat pump:		no									
Low-temperature heat pump:		no									
Equipped with a supplementary heater	r:	no									
Heat pump combination heater:		no									
Declared climate condition		Colder Mediun	Colder								
Declared temperature application											
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 outdoor temperature Tj	indoor temp	erature 20	0°C and	Declared coefficient of performance or primar indoor temperature 20°C and outdoor temperature 20°C.		atio for pa	art load a				
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	$Tj = +7^{\circ}C$	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		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	7				
Crankcase heater mode	PCK.	0.000	kW								
Other items	•		1	,							
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 1	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