				chnical parameters							
Model(s):		ACHP	-H10/4	R3HA-M (NE)							
Air-to-water heat ump:			yes								
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
Low-temperature heat pump:											
Equipped with a supplementary h	eater:	no									
Heat pump combination heater:		no									
Declared climate condition		Warmer									
Declared temperature application	_	Low		1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	8.6	kW	Seasonal space heating energy efficiency	ηs	267	%				
Declared capacity for heating for part 20°C and outdoor temperature Tj	load at indo	or temper	ature	Declared coefficient of performance or primary indoor temperature 20°C and outdoor temperat		io for par	t load a				
Тj = -7°С	Pdh	-	kW	Tj = -7°C	COPd	-	-				
$\Gamma j = +2^{\circ}C$	Pdh	8.20	kW	$Tj = +2^{\circ}C$	COPd	3.84	-				
$\Gamma j = +7^{\circ}C$	Pdh		kW	$Tj = +7^{\circ}C$		5.85	_				
Гј = +12°С	Pdh	2.46	kW	$Tj = +12^{\circ}C$	COPd	9.04	-				
Tj = bivalent temperature	Pdh	5.53	kW	Tj = bivalent temperature	COPd	5.85	-				
$\Gamma_j = operation limit temperature$	Pdh	8.20	kW	$T_j = operation limit temperature$	COPd	3.84	-				
For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (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 acti	ve mode	•	Supplemantary heater	1						
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	0.40	kW				
Thermostat-off mode	РТО	0.030	kW								
Standby mode	∫ sb	0.020	kW	Type of energy input		Electricity	y				
Crankcase heater mode	PcK	0.000	kW	1		-					
Other items	1	I	1		1						
Capacity control		ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m³/ł				
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	1701	kWh	exchanger							
For heat pump combination heate		•									
Declaed load profile		-		Water heating energy efficiency	Hwh		%				
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWł				
Contact details	AUX Co	I ., Ltd		Road, Jiangshan Yinzhou District, Ningbo, 315	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

				nnical parameters							
Model(s):		ACHP H10/4R3HA M (NE)									
Air-to-water heat ump:		yes									
Water-to-water heat pump:		no									
Brine-to-water heat pump:		no									
		no									
Equipped with a supplementary heate	er:	no									
Heat pump combination heater: Declared climate condition		no									
Declared temperature application		Mediun	Varmer Aedium								
Declared temperature application											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output。)	Prated	14.1	kW	Seasonal space heating energy efficiency	ηs	171	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor	temperatu	ire 20 °C	Declared coeffient of performance or primary indoor temperature 20°C and outdoor temperature		tio for pa	art load a				
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-				
$Tj = +2^{\circ}C$	Pdh	13.7	kW	$Tj = +2^{\circ}C$	COPd	2.49	-				
$Tj = +7^{\circ}C$	Pdh	9.06	kW	$Tj = +7^{\circ}C$	COPd	3.46	-				
$Tj = +12^{\circ}C$	Pdh	4.03	kW	$Tj = +12^{\circ}C$	COPd	6.01	-				
Tj = bivalent temperature	Pdh	9.06	kW	Tj = bivalent temperature	COPd	3.46	-				
Tj = operation limit temperature	Pdh	13.7	kW	Tj = operation limit temperature	COPd	2.49	-				
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 the	nan active	e mode		Suppiemantary heater	1	1					
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	0.40	kW				
Thermostat-off mode	Р ТО	0.030	kW								
Standby mode	∫ sb	0.020	kW	Type of energy input	Electricity						
Crankcase heater mode	PcK	0.000	kW								
Other items											
Capacity control	V	Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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	4331	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		1	Road, Jiangshan Yinzhou District, Ningbo, 31	5191 Zhej	iang, Ch	ina				

(*) 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

Model(s): ACHP-H10/4R			R3HA-M (NE)									
Air-to-water heat ump: y			yes									
Water-to-water heat pump:			no									
Brine-to-water heat pump:												
Low-temperature heat pump: no												
Equipped with a supplementary	y heater:	no										
Heat pump combination heater	:	no										
Declared climate condition		Averag	e									
Declared temperature applicati	on	Low	1	T								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	9.2	kW	Seasonal space heating energy efficiency	ηs	198	%					
Declared capacity for heating for pa 20°C and outdoor temperature T,	art load at ir	idoor tem	perature	Declared coeffient of performance or prima at indoor temperature 20°C and outdoor tem			part loa					
Tj = -7°C	Pdh	8.14	kW	$Tj = -7^{\circ}C$	COPd	3.17	-					
$Tj = +2^{\circ}C$	Pdh	4.95	kW	$Tj = +2^{\circ}C$	COPd	5.02	-					
$Tj = +7^{\circ}C$	Pdh	3.18		$Tj = +7^{\circ}C$	COPd	6.30	_					
$\frac{1}{T_{j}^{2} = +12^{\circ}C}$	Pdh	1.42	kW	$Tj = +12^{\circ}C$	COPd	8.33	-					
Tj = bivalent temperature	Pdh	8.14	kW	Tj = bivalent temperature	COPd	3.17	-					
Tj = operation limit temperature	Pdh	7.40	kW	Tj = operation limit temperature	COPd	2.86	-					
For air-to-water heat pumps: $T_j = -15^{\circ}C(ifTOL < -20^{\circ}C)$	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 of	other than	active m	ode	Supplemantary heater								
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	1.8	kW					
Thermostat-off mode	Рто	0.030	kW									
Standby mode	PsB	0.020	kW	Type of energy input	E	lectricity	Y					
Crankcase heater mode		0.020	kW									
Other items	1	-	1	1	1							
		ariable		For air-to-water heat pumps: Rated air flow		4000	m³/h					
Capacity control	ļ`	anable		rate, outdoors	-	4000	m-/h					
Sound power level	LWA	-	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat	-	-	m³/ł					
Annual energy consumption	QHE	3774	kWh	exchanger								
For heat pump combination he	ater											
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	315191 Zho	ejiang, C	hina					
heating Pdesignh, and the rated sup(Tj).	s and heat heat outp	pump c ut of a s	ombina upplen	ation heaters, the rated heat output Prated is e nentary heater Psup is equal to the supplement default degradation coefficient is $Cdh = 0.9$	equal to the	e design l	load fo					

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9

			Tech	nical parameters						
Model(s):		ACHP	ACHP H10/4R3HA M (NE)							
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 he	eater:	no								
Heat pump combination heater:		no								
Declared climate condition		Average								
Declared temperature application		Mediun	n							
item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output(*)	Prated	7.7	kW	Seasonal space heating energy efficiency	ηs	136	%			
Declared capacity for heating for part 20°C and outdoor temperature Tj	load at indo	oor tempe	rature	Declared coeffient of performance or prin load at indoor temperature 20°C and outc			-			
$\Gamma j = -7^{\circ}C$	Pdh	6.81	kW	$Tj = -7^{\circ}C$	COPd	2.03	-			
$\Gamma j = +2^{\circ}C$	Pdh	4.15	kW	$Tj = +2^{\circ}C$	COPd	3.46	-			
$\Gamma j = +7^{\circ}C$	Pdh	2.67	kW	$Tj = +7^{\circ}C$	COPd	4.50	_			
$\Gamma j = +12^{\circ}C$	Pdh	1.18	kW	$Tj = +12^{\circ}C$		7.01	-			
$\Gamma_j = bivalent temperature$	Pdh	6.81	kW	Tj = bivalent temperature	COPd	2.03	-			
$\Gamma_j = operation limit temperature$	Pdh	5.23	kW	T_{i} = operation limit temperature	COPd	1.63	-			
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 neating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-			
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes othe	er than act	ive mod	e	Supplemantary heater	1					
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	2.47	kW			
Thermostat-off mode	Рто	0.030	kW		^					
Stor dhy mada	D.		kW	Type of energy input	I I	Electricit	v			
Standby mode	PSB PCK	0.020	kW kW	Type of energy input	Electricity					
Other items	1									
Capacity control	N	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	- 4000 m ³					
Sound power level	LWA	60	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	-	-	m³/h			
Annual energy consumption	QHE	4553	kWh	outdoor heat exchanger						
For heat pump combination heater	·									
Declaed load profile		-		Water heating energy efficiency	Hwh	-	%			
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	_	kWł			
Contact details	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, Ch									

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh =0.9

			Tech	nical parameters						
Model(s):		ACHP-H10/4R3HA-M (NE)								
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 he	eater:	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(*)	Prated	7.7	kW	Seasonal space heating energy efficiency	ηs	168	%			
Declared capacity for heating for part 2 20°C and outdoor temperature Tj	load at indo	oor tempe	rature	Declared coeffient of performance or prir load at indoor temperature 20°C and outd						
Гj = -7°С	Pdh	4.83	kW	Tj = -7°C	COPd	3.60	-			
Гj = +2°С	Pdh	2.94	kW	$Tj = +2^{\circ}C$	COPd	5.26	-			
$\Gamma j = +7^{\circ}C$	Pdh	1.92	kW	$Tj = +7^{\circ}C$	COPd	7.08	-			
$\Gamma j = +12^{\circ}C$	Pdh	1.65	kW	$Tj = +12^{\circ}C$	COPd	7.96	-			
Γj = bivalent temperature	Pdh	6.32	kW	Tj = bivalent temperature	COPd	2.64	-			
Γj = operation limit temperature	Pdh	4.62	kW	Tj = operation limit temperature	COPd	1.97	-			
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	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C			
Cycling interval capacity for heating	Pcycti	-	kW	Cycling interval efficiency	COPcyc	-	-			
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	°C			
Power consumption in modes othe	er than act	ive mod	e	Supplemantary heater						
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	3.08	kW			
Thermostat-off mode		0.030	kW		- T					
				- Type of energy input	1	Electricit	v			
Standby mode	PSB	0.020	kW		'		J			
Crankcase heater mode	Рск	0.000	kW							
				For air-to-water heat pumps: Rated air	1					
Capacity control	V	ariable		flow rate, outdoors	- 4000 m ²					
Sound power level	LWA	-	dB	For wate r-/bri n e-to-water heat pumps:Rated brine or water flow rate,	_	_	m ³ /h			
Annual energy consumption	QHE	4439	kWh	outdoor heat exchanger						
For heat pump combination heater	<u> </u>				•					
Declaed load profile		-		Water heating energy efficiency	Owh	-	%			
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	_	kWh			
Contact details	AUX Co.	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, Chin								

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh =0.9

			Tech	nical parameters						
Model(s):		ACHP-H10/4R3HA-M (NE)								
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 he	eater:	no								
Heat pump combination heater:		no								
Declared climate condition		Colder								
Declared temperature application		Mediun	n	1	•					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output(*)	Prated	6.7	kW	Seasonal space heating energy efficiency	ηs	116	%			
Declared capacity for heating for part 20°C and outdoor temperature Tj	load at indo	oor tempe	erature	Declared coeffient of performance or prir load at indoor temperature 20°C and outd			-			
Гj = -7°С	Pdh	4.27	kW	$Tj = -7^{\circ}C$	COPd	2.54	-			
Γj = +2°C	Pdh	2.57	kW	$Tj = +2^{\circ}C$	COPd	3.51	-			
$\Gamma j = +7^{\circ}C$	Pdh	1.65	kW	$T_{j} = +7^{\circ}C$	COPd	4.37	-			
$\Gamma j = +12^{\circ}C$	Pdh	1.48	kW	$T_j = +12^{\circ}C$	COPd	5.96	-			
Γj = bivalent temperature	Pdh	5.47	kW	Tj = bivalent temperature	COPd	2.00	-			
$\Gamma_j = operation limit temperature$	Pdh	2.80	kW	$T_j = operation limit temperature$	COPd	1.22	-			
For air-to-water heat pumps:	Pdh	-	kW	For air-to-water heat pumps:	COPd	-	-			
Tj = -15°C(ifTOL<-20°C) Bivalent temperature	Tbiv	-15	°C	Tj = -15°C (ifTOL<-20°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 othe	er than act	ive mod	e	Supplemantary heater			1			
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	3.9	kW			
Thermostat-off mode		0.030	kW							
				- Type of energy input	,	Electricit	v			
Standby mode		0.020	kW	1 JPo of energy input			J			
Crankcase heater mode Other items	Рск	0.000	kW							
				For air-to-water heat pumps: Rated air	1		<u> </u>			
Capacity control	V	ariable		flow rate, outdoors	-	4000	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	QHE	5574	kWh	outdoor heat 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.	AUX Co., Ltd 166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, Chi								

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh =0.9