			Tech	nnical parameters									
Model(s):		ACHP-		R3HA-ME									
			yes										
Water-to-water heat pump:			no										
		no											
		no											
Equipped with a supplementary heat	ter:	no											
Heat pump combination heater:		no											
Declared climate condition		Warmer											
Declared temperature application		Low											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit						
Rated heat output(*)	Prated	11.1	kW	Seasonal space heating energy efficiency	ηs	254	%						
Declared capacity for heating for part loa 20 °C and outdoor temperature Tj	ad at indoo	r tempera	ture	Seasonal space heating energy efficiency η_s 254 $\%$ Declared coefficient of performance or primary energy ratio for part log indoor temperature 20°C and outdoor temperature Tj $G_{J} = -7^{\circ}C$ $COPd$ $ T_{J} = -7^{\circ}C$ $COPd$ $ T_{J} = +2^{\circ}C$ $COPd$ 3.59 $ T_{J} = +7^{\circ}C$ $COPd$ 5.82 $ T_{J} = +12^{\circ}C$ $COPd$ 7.94 $ T_{J} = bivalent temperatureCOPd5.82 T_{J} = operation limit temperatureCOPd3.59 T_{J} = operation limit temperatureCOPd3.59 Gor air-to-water heat pumps: T_{J} = -15^{\circ}CCOPd -$									
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-						
$Tj = +2^{\circ}C$	Pdh	10.90	kW	$Tj = +2^{\circ}C$	COPd	3.59	-						
$Tj = +7^{\circ}C$	Pdh	7.14	kW	$Tj = +7^{\circ}C$	COPd	5.82	-						
$Tj = +12^{\circ}C$	Pdh	3.17	kW	$Tj = +12^{\circ}C$	COPd	7.94	-						
Tj = bivalent temperature	Pdh	7.14	kW	Tj = bivalent temperature	COPd	5.82	-						
Tj = operation limit temperature	Pdh	10.90	kW	$T_i = operation limit temperature$	COPd	3.59	-						
For air-to-water heat pumps: Tj = $-15^{\circ}C$ (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	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	0.20	kW						
Thermostat-off mode	Рто	0.030	kW										
Standby mode	PsB	0.020	kW	Type of energy input	Electricity								
Crankcase heater mode	PcK	0.000	kW	1									
Other items	FUK	0.000	<u> KVV</u>	1									
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	2308	kWh	exchanger									
For heat pump combination heater			-	•		I							
Declaed load profile		-		Water heating energy efficiency	Hwh	-	%						
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh						
Contact details	AUX Co. 1166 Mir												

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

			Tec	hnical parameters								
Model(s):	ACHP-H12/4R			-								
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 heat	er:	no										
Heat pump combination heater:		no										
Declared climate condition		Warmer	r									
Declared temperature application		Mediun	n		+	a						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	14.1	kW	Seasonal space heating energy efficiency	ηs	176	%					
Declared capacity for heating for part loa 20 °C and outdoor temperature Tj	d at indoor	temperat	ture	Declared coeffient of performance or primary energy ratio for part load indoor temperature 20°C and outdoor temperature Tj								
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-					
$Tj = +2^{\circ}C$	Pdh	13.9	kW	Tj=+2°C	COPd	2.54	-					
Tj = +7°C	Pdh	9.06	kW	Tj=+7°C	COPd	3.56	-					
$Tj = +12^{\circ}C$	Pdh	4.03	kW	Tj=+12°C	COPd	6.16	-					
Tj = bivalent temperature	Pdh	9.06	kW	Tj = bivalent temperature	COPd	3.56	-					
$\Gamma j = operation limit temperature$	Pdh	13.9	kW	Tj = operation limit temperature	COPd	2.54	-					
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 t	than activ	e mode		Supplemantary heater								
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	0.20	kW					
Thermostat-off mode	Рто	0.030	kW									
Standby mode	PSB	0.020	kW	Type of energy input	E	Electricity						
Crankcase heater mode	P CK	0.000	kW			- · · J						
	1 UK	0.000	L VV	<u>.</u>								
Other items	_			For air-to-water heat pumps: Rated airflow			2					
Capacity control	\\	ariable	<u></u>	rate, outdoors	-	4650	m³/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	4206	kWh	exchanger								
For heat pump combination heater						- 77 						
Declaed load profile		-		Water heating energy efficiency	Hwh	- 1	%					
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh					
Contact details	Qelec - kWh Daily fuel consumption Qfuel - kWh AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China											

(*) 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

			Tech	nical parameters							
Model(s):			ACHP-H12/4R3HA-ME								
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:		no									
Declared climate condition		Averag	e								
Declared temperature application		Low	-								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output。)	Prated	12.2	kW	Seasonal space heating energy efficiency	ηs	194	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor t	temperatu	re 20 °C	Declared coeffient of performance or prima at indoor temperature 20°C and outdoor ter			part loa				
Tj = -7°C	Pdh	10.79	kW	$Tj = -7^{\circ}C$	COPd	3.02	-				
$Tj = +2^{\circ}C$	Pdh	6.57	kW	Tj=+2°C	COPd	4.83					
$Tj = +7^{\circ}C$	Pdh	4.22	kW	Tj=+7°C	COPd	6.27	-				
$Tj = +12^{\circ}C$	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	10.10	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	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 th	nan active	mode		Supplemantary heater	•						
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	2.10	kW				
Thermostat-off mode	Рто	0.030	kW								
Standby mode	PSB	0.020	kW	Type of energy input	1	y					
Crankcase heater mode	Рск	0.000	kW	1		•					
Other items	I CK	0.000									
Capacity control	N N	/ariable		For air-to-water heat pumps: Rated airflow rate, outdoors	- 4650 m ²		m³/h				
Sound power level	LWA	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	-	-	m³/h				
Annual energy consumption	QHE	5114	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	-	kWh				
Contact details	AUX Co	., Ltd	I	Road, Jiangshan Yinzhou District, Ningbo, 2	-						

(*) 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		ical parameters								
Model(s):			H12/4F	R3HA-ME								
Air-to-water heat ump:			yes									
Water-to-water heat pump:												
Brine-to-water heat pump:												
Low-temperature heat pump:		no										
Equipped with a supplementary heater	r:	no										
Heat pump combination heater: Declared climate condition		no										
Declared temperature application		Averag Mediur	Average									
						1						
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni					
Rated heat output(*)	Prated	12	kW	Seasonal space heating energy efficiency	ηs	139	%					
Declared capacity for heating for part load and outdoor temperature Tj	at indoor t	emperatu	ire 20°C	Declared coeffient of performance or prim at indoor temperature 20°C and outdoor te		-	r part le					
Tj = -7°C	Pdh	10.62	kW	Tj = -7°C	COPd	2.11	-					
$Tj = +2^{\circ}C$	Pdh	6.46	kW	$Tj = +2^{\circ}C$	COPd	3.43	-					
$Tj = +7^{\circ}C$	Pdh	4.15	kW	$Tj = +7^{\circ}C$	COPd	4.59	-					
$Tj = +12^{\circ}C$	Pdh	1.85	kW	$Tj = +12^{\circ}C$	COPd	6.90	-					
Tj = bivalent temperature	Pdh	10.62	kW	Tj = bivalent temperature	COPd	2.11	-					
Tj = operation limit temperature	Pdh	9.16	kW	Tj = operation limit temperature	COPd	2.68	-					
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 th	an active	mode		Supplemantary heater								
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	2.84	kW					
Thermostat-off mode	Рто	0.030	kW	· · · · · ·								
Standby mode	PSB	0.020	kW	Type of energy input	Electricity							
Crankcase heater mode	PcK	0.000	kW									
Other items		0.000	AU									
Other items				For air-to-water heat pumps: Rated air		1						
Capacity control	V	ariable		flow rate, outdoors	-	4650	m ³ /					
Sound power level	Lwa	63	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	_		m ³ /					
Annual energy consumption	QHE	6982	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	-	kW					
Contact details	AUX Co.	UX Co., Ltd 166 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

Model(s):		Technical parameters									
Air-to-water heat ump:		ACHP-H12/4R3HA-ME									
·		yes no									
		no									
- · ·		no									
Equipped with a supplementary heate	r.	no									
Heat pump combination heater:	1.	no									
Declared climate condition		Colder									
Declared temperature application		Low									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat outputf*)	Prated	11.4	kW	Seasonal space heating energy efficiency	ηs	159	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor 1	emperatu	ire 20°C	Declared coeffient of performance or prim at indoor temperature 20°C and outdoor te			part lo				
$Tj = -7^{\circ}C$	Pdh	7.05	kW	$Tj = -7^{\circ}C$	COPd	3.48	-				
$Tj = +2^{\circ}C$	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	-				
$\Gamma j = +12^{\circ}C$	Pdh	3.57	kW	$Tj = +12^{\circ}C$	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	an active	mode		Supplemantary heater	•						
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	4.39	kW				
Thermostat-off mode	РТО	0.030	kW		rsup	1.59	K ()				
Standby mode	PsB	0.020	kW	Type of energy input	Electricity						
		0.020	kW								
Crankcase heater mode Other items	РсК	0.000	KW								
Other items				For air-to-water heat pumps: Rated air							
Capacity control	V	/ariable		flow rate, outdoors	-	4650	m ³ /h				
Sound power level	LWA	-	dB	For water-/bri ne-to-water heat pumps:Rated brine or water flow rate,	-	-	m ³ /h				
Annual energy consumption	Qhe	6926	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 1166 Mii			Road, Jiangshan Yinzhou District, Ningbo	, 315191 2	Zhejiang,					

(*) 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):				4			Technical parameters							
			ACHP-H12/4R3HA-ME yes											
Air-to-water heat ump: Water-to-water heat pump:														
		no no												
Equipped with a supplementary heate	r.	no												
Heat pump combination heater:	1.	no												
Declared climate condition		Colder												
Declared temperature application		Mediun												
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit							
Rated heat output(*)	Prated	10.3	kW	Seasonal space heating energy efficiency	ηs	117	%							
Declared capacity for heating for part load and outdoor temperature Tj	at indoor	temperatu	ire 20°C	Declared coeffient of performance or prim at indoor temperature 20°C and outdoor to			r part lo							
$Tj = -7^{\circ}C$	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								
$Tj = +7^{\circ}C$	Pdh	2.78	kW	$Tj = +7^{\circ}C$	COPd	4.54	-							
$Tj = +12^{\circ}C$	Pdh	3.33	kW	$Tj = +12^{\circ}C$	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	COPcyc	-	-							
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	POFF	0.020	kW	Rated heat output (*)	Psup	6.11	kW							
Thermostat-off mode	Р ТО	0.030	kW											
Standby mode	PSB	0.020	kW	Type of energy input	Electricity									
Crankcase heater mode	P CK	0.000	kW	1										
Other items	L	1	1	1	1									
Capacity control	V	/ariable		For air-to-water heat pumps: Rated airflow rate, outdoors	-	4000	m³/h							
Sound power level	LWA	-	dB	For water-/b ri n e-to-water heat pumps:Rated brine or water flow rate,	_	_	m³/h							
Annual energy consumption	Qhe	8453	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	-	kWh							
Contact details	AUX Co 1166 Mii		North	Road, Jiangshan Yinzhou District, Ningbo	, 315191 Z	Zhejiang,	China							

(*) 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