			Tec	chnical parameters									
Model(s):		Outdoor		ACHP-H04/4R3HA-O									
Air-to-water heat ump:		yes											
Water-to-water heat pump:		no											
Brine-to-water heat pump:		no											
Low-temperature heat pump:		no	10										
Equipped with a supplementary heater:		no											
1 1		no											
Declared climate condition	Warmer												
Declared temperature application	n T	Low		T									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit						
Rated heat output(*)	Prated	5.5	kW	Seasonal space heating energy efficiency	Hs	236	%						
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or prin at indoor temperature 20°C and outdoor to			part load						
Tj = -7°C	Pdh	-	kW	$Tj = -7^{\circ}C$	COPd	-	-						
$Tj = +2^{\circ}C$	Pdh	5.37	kW	Tj = +2°C	COPd	3.94	-						
$Tj = +7^{\circ}C$	Pdh	3.54	kW	$Tj = +7^{\circ}C$	COPd	5.92	-						
Tj = +12°C	Pdh	1.57	kW	Tj = +12°C	COPd	7.91	-						
Tj = bivalent temperature	Pdh	3.54	kW	Tj = bivalent temperature	COPd	5.92	-						
Tj = operation limit temperature	Pdh	5.37	kW	Tj = operation limit temperature	COPd	3.94	-						
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: $Tj = -15$ °C (if $TOL < -20$ °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 ot	her than a	ctive mo	de	Supplementary heater									
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	0.13	kW						
Thermostat-off mode	Рто	0.030	kW	ranea near output ( )	1500	0.15	11 11						
				Type of energy input	,	Electricity	ī						
Standby mode	PsB	0.020	kW	1 yes of energy input	'	Licenienty							
Crankcase heater mode	PCK	0.000	kW										
Other items				In									
Capacity control	,	Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m <sup>3</sup> /h						
Sound power level, indoors/outdoors	LWA	_	dB	For water-/brine-to-water heat									
		1000	1 ***	pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h						
Annual energy consumption	QHE	1229	kWh										
For heat pump combination heat	ter			W 1			0/						
Declaed load profile		-		Water heating energy efficiency	Hwh	-	%						
Daily electricity consumption	Qelec	- T / 1	kWh	Daily fuel consumption	Qfuel	-	kWh						
Contact details	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China												
heating Pdesignh, and the rated sup(Tj).	and heat putpu	oump cor	nbination plemer	on heaters, the rated heat output Prated is entary heater Psup is equal to the supplemental fault degradation coefficient is Cdh = 0.9	qual to the	design loa	ad for						

Technical parameters												
Model(s):		Outdoo		Technical parameters ACHP-H04/4R3HA-0								
Air-to-water heat ump:		Ves										
		yes no										
			no									
1 1		no										
Low-temperature heat pump:  Equipped with a supplementary heater:		no										
Heat pump combination heater:		no										
Declared climate condition		Warme										
Declared temperature application Medium			n 									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	5	kW	Seasonal space heating energy efficiency	Hs	156	%					
Declared capacity for heating for par 20°C and outdoor temperature Tj	rt load at inc	loor temp	erature	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  Declared coefficient of performance or primary energy ratio for part load a indoor temperature 20°C and outdoor temperature Tj  Declared coefficient of performance or primary energy ratio for part load a indoor temperature Tj  Declared coefficient of performance or primary energy ratio for part load a indoor temperature Tj  Declared coefficient of performance or primary energy ratio for part load a indoor temperature Tj  Declared coefficient of performance or primary energy ratio for part load a indoor temperature Tj  Declared coefficient of performance or primary energy ratio for part load a indoor temperature Tj  Declared coefficient of the part of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indoor temperature Tj  Declared coefficient of the part load a indo								
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-					
$Tj = +2^{\circ}C$	Pdh	4.87	kW	Tj = +2°C	COPd	2.50	-					
Tj = +7°C	Pdh	3.21	kW	$Tj = +7^{\circ}C$	COPd	3.68	-					
Tj = +12°C	Pdh	1.43	kW	Tj = +12°C	COPd	5.15	-					
Tj = bivalent temperature	Pdh	3.21	kW	Tj = bivalent temperature	COPd	3.68	_					
Tj = operation limit	D 11	4.07	1 337		CODI	2.51						
temperature	Pdh	4.87	kW	Ij = operation limit temperature	COPa	2.51	-					
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 than	active r	node	Supplementary heater	1							
Off mode	POFF	0.020	kW	1	Psup	0.13	kW					
Thermostat-off mode	Pro	0.030	kW	1 ( /	1							
Standby mode	PTO PSB	0.030	kW	Type of energy input	F	Electricity	V					
Crankcase heater mode	P CK	0.000	kW	Type or energy input			,					
Other items	1 CIL	1 0.000	IK * *	<u> </u>								
Capacity control	\	/ariable		For air-to-water heat pumps: Rated airflow	_	2800	m³/h					
Sound power level,			1-									
indoors/outdoors	LWA	-	dB	brine or water flow rate, outdoor heat	_	_	m <sup>3</sup> /h					
Annual energy consumption	Qне	1684	kWh	exchanger								
For heat pump combination he	eater											
Declaed load profile		-		Water heating energy efficiency	Qwh	-	%					
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfijel	-	kWh					
Contact details  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												

Nr. 1.1( )				ical parameters								
· · · · · · · · · · · · · · · · · · ·			Outdoor unit:ACHP-H04/4R3HA-O									
•			yes									
Water-to-water heat pump:			no									
Brine-to-water heat pump:												
Low-temperature heat pump:												
Equipped with a supplementary heater:												
Heat pump combination heater:			no									
Declared climate condition			Average									
Declared temperature application		Low	ow									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	5.5	kW	Seasonal space heating energy efficiency	Hs	190	%					
Declared capacity for heating for part load at outdoor temperature Tj	indoor temp	erature 20	°C and	Declared coefficient of performance or primat indoor temperature 20°C and outdoor to			r part lo					
Tj = -7°C	Pdh	4.87	kW	Tj = -7°C	COPd	3.23						
Tj = +2°C	Pdh	2.9	kW	Tj = +2°C	COPd	4.84						
$T_1 = +7$ °C	Pdh	1.90	kW	$T_i = +7^{\circ}C$	COPd	6.46						
$T_i = +12$ °C	Pdh	0.85	kW	$T_i = +12$ °C	COPd	9.62						
Tj = bivalent temperature	Pdh	4.87	kW	Tj = bivalent temperature	COPd	3.23						
Tj = operation limit temperature	Pdh	4.34	kW	Tj = operation limit temperature	COPd	2.86						
For air-to-water heat pumps:		1.51		For air-to-water heat pumps:		2.00						
$T_j = -15$ °C(ifTOL<-20°C)	Pdh	-	kW	$T_i = -15$ °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	WTOI	60	°C					
Power consumption in modes other th	an active	mode		Supplemantary heater								
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	1.16	kW					
Thermostat-off mode	Рто	0.030	kW	()								
Standby mode	PSB	0.020	kW	Type of energy input	Electricit		V					
Crankcase heater mode	PCK	0.000	kW		Diediteity							
Other items					I							
Capacity control	\	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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	QHE	2355	kWh	outdoor heat exchanger	_	-	1117/11					
For heat pump combination heater												
Declaed load profile		-		Water heating energy efficiency	Rwh	-	%					
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfuel	-	kWł					
Contact details	AUX Co. 1166 Mir			Road, Jiangshan Yinzhou District, Ningbo	, 315191 Z	Zhejiang,						

<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

			Т	hairet arannakan							
Model (s): Outdoor				echnical parameters :ACHP-H04/4R3HA-O							
Air-to-water heat ump:		ves									
***		no									
		no									
		no									
		no									
<del></del>		no									
Heat pump combination heater:  Declared climate condition		Averag	e								
Declared temperature application											
Item	Symbol	Medium  Value   Unit   Item				Value	Unit				
Rated heat output(*)	Prated	5.5	kW	Seasonal space heating energy	Hs	131	%				
				efficiency							
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or priload at indoor temperature 20°C and ou	-		_				
Tj = -7°C	Pdh	4.87	kW	$Tj = -7^{\circ}C$	COPd	1.96					
$Tj = +2^{\circ}C$	Pdh	2.96	kW	Tj = +2°C	COPd	3.48					
$Tj = +7^{\circ}C$	Pdh	1.90	kW	$Tj = +7^{\circ}C$	COPd	4.28					
Tj = +12°C	Pdh	0.85	kW	Tj = +12°C	COPd	6.58					
Tj = bivalent temperature	Pdh	4.87	kW	Tj = bivalent temperature	COPd	1.96					
Tj = operation limit temperature	Pdh	3.42	kW	Tj = operation limit temperature	COPd	1.83	-				
For air-to-water heat pumps: $Tj = -15^{\circ}C(ifTOL < -20^{\circ}C)$	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	other thar	active 1	node	Supplemantary heater							
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	2.08	kW				
Thermostat-off mode	Рто	0.030		1 ()	1						
Standby mode	PsB	0.020	kW	Type of energy input	E	lectricity	7				
Crankcase heater mode	РСК	0.000	kW	1		_					
Other items					<u>'</u>						
				For air-to-water heat pumps: Rated air							
Capacity control	\	/ariable		flow rate, outdoors	-	2800	m <sup>3</sup> /h				
Sound power level, indoors/outdoors	LWA	38/56	dB	For water-/bri ne-to-water heat pumps:Rated brine or water flow rate,			3/1-				
Annual energy consumption	QHE	3399	kWh	outdoor heat exchanger		-	m <sup>3</sup> /h				
For heat pump combination he	eater										
Declaed load profile		-		Water heating energy efficiency	Hwh	-	%				
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										
heating Pdesignh, and the rate sup(Tj).	rs and hear	pump c	ombina supplen	ation heaters, the rated heat output Prated nentary heater Psup is equal to the supple default degradation coefficient is Cdh =	is equal to ementary ca	the desig	n load fo				

<sup>(\*\*)</sup> If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9

			Tech	unical parameters								
Model (s):	Technical parameters Outdoor unit: ACHP-H04/4R3HA-O											
Air-to-water heat ump:		yes										
Water-to-water heat pump:		no										
Brine-to-water heat pump:		no										
Low-temperature heat pump:		no										
		no	10									
		no										
Declared climate condition		Colder										
Declared temperature application												
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	4.6	kW	Seasonal space heating energy efficiency	0s	157	%					
Declared capacity for heating for part load and outdoor temperature Tj	l at indoor to	emperatur	e 20°C	Declared coefficient of performance or prim at indoor temperature 20°C and outdoor te			r part loa					
Tj = -7°C	Pdh	2.75	kW	$Tj = -7^{\circ}C$	COPd	3.50	-					
Tj = +2°C	Pdh	1.77	kW	Tj = +2°C	COPd	4.95	_					
Tj = +7°C	Pdh	1.17	kW	Tj = +7°C	COPd	5.53	-					
Tj = +12°C	Pdh	1.43	kW	Tj = +12°C	COPd	7.67	-					
Tj = bivalent temperature	Pdh	3.72	kW	Tj = bivalent temperature	COPd	2.57	-					
Tj = operation limit temperature	Pdh	2.80	kW	Tj = operation limit temperature	COPd	1.97	-					
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	СОРсус	-	-					
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	°C					
Power consumption in modes other	than acti	ve mode	:	Supplemantary heater								
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	1.80	kW					
Thermostat-off mode	Рто	0.030	kW									
Standby mode	PsB	0.020	kW	Type of energy input	]	Electricit	y					
Crankcase heater mode	Рск	0.000	kW									
Other items												
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m <sup>3</sup> /h					
Sound power level,	T		ΔL	For water-/bri ne-to-water heat								
indoors/outdoors	LWA		dB	pumps:Rated brine or water flow rate,	_	_	m <sup>3</sup> /h					
Annual energy consumption	QHE	2833	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 Mir		North	Road, Jiangshan Yinzhou District, Ningbo,	315191 Z	hejiang,	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

			Tec	hnical parameters							
Model (s):				ACHP-H04/4R3HA-0							
Air-to-water heat ump:			yes								
			no								
Brine-to-water heat pump:			no								
Low-temperature heat pump:			no								
Equipped with a supplementary heater:											
Heat pump combination heater:		no									
Declared climate condition		Colder									
Declared temperature application	Medium		n								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	3.4	kW	Seasonal space heating energy efficiency	Is	101	%				
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Item Symbol Value Unit Seasonal space heating energy efficiency Is 101 %  Declared coefficient of performance or primary energy ratio for part load a indoor temperature 20°C and outdoor temperature Tj  Tj = -7°C COPd 2.32 - Tj = +2°C COPd 2.99 - Tj = +7°C COPd 3.86 - Tj = +12°C COPd 6.28 - Tj = bivalent temperature COPd 1.74 - Tj = operation limit temperature COPd 1.02 - For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C) COPd - To air-to-water heat pumps: Operation limit temperature COPd 1.02 - To air-to-water heat pumps: Operation limit temperature COPd 1.74 - ToL -22 °C  Expellementary deficiency COPcyc - Heating water operating limit temperature WTOL 52 °C  Supplementary heater  Rated heat output (*) Psup 1.76 kW  Type of energy input Electricity  For air-to-water heat pumps: Rated air flow rate, outdoors  For water-/brine-to-water heat pumps:Rated or or water flow rate, outdoor heat m³/h							
Tj = -7°C	Pdh	2.14	kW	Tj = -7°C	COPd	2.32	-				
Tj = +2°C	Pdh	1.28	kW	Tj = +2°C	COPd	2.99	-				
Tj = +7°C	Pdh	1.02	kW	$Tj = +7^{\circ}C$	COPd	3.86	-				
Tj = +12°C	Pdh	1.37	kW	Tj = +12°C	COPd	6.28	-				
Tj = bivalent temperature	Pdh	2.74	kW	Tj = bivalent temperature	COPd	1.74	-				
Tj = operation limit temperature	Pdh	1.64	kW		COPd	1.02	-				
For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps:		-	-				
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit	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	than activ	e mode		Supplemantary heater							
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	1.76	kW				
Thermostat-off mode	Рто	0.030	kW								
Standby mode	PSB	0.020	kW	Type of energy input	E	Electricity					
Crankcase heater mode	Рск	0.000	kW								
Other items			1								
Capacity control		ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m³/h				
Sound power level,											
indoors/outdoors	LWA	-	dB	brine or water flow rate, outdoor heat	_	_	m <sup>3</sup> /h				
Annual energy consumption	Оне	3233	kWh	exchanger							
For heat pump combination heater		•	•			I					
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