Model(s):		Outdoo		chnical parameters ACHP-H08/4R3HA-O									
			ves										
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										
Declared climate condition			Warmer										
Declared temperature application													
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit						
Rated heat output(*)	Prated	8.1	kW	Seasonal space heating energy efficiency	Hs	270	%						
Declared capacity for heating for part loa and outdoor temperature Tj	ad at indoor t	emperatur	e 20°C	Declared coeffient of performance or primary energy ratio for part load a indoor temperature 20°C and outdoor temperature Tj									
$T_i = -7^{\circ}C$	Pdh	-	kW	$T_i = -7^{\circ}C$	COPd	-	-						
$T_i = +2^{\circ}C$	Pdh	7.80	kW	$T_i = +2^{\circ}C$	COPd	3.98	-						
$Tj = +7^{\circ}C$	Pdh	5.21	kW	$Tj = +7^{\circ}C$	COPd	6.26	-						
$Tj = +12^{\circ}C$	Pdh	2.31	kW	$Tj = +12^{\circ}C$	COPd	9.23	-						
Tj = bivalent temperature	Pdh	5.21	kW	Tj = bivalent temperature	COPd	6.26	-						
Γj = operation limit temperature	Pdh	7.80	kW	Tj = operation limit temperature	COPd	3.98	-						
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	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	0.3	kW						
Thermostat-off mode	РТО	0.030	kW										
Standby mode	∏ sb	0.020	kW	Type of energy input	1	Electricity							
Crankcase heater mode	РсК	0.000	kW										
Other items													
Capacity control	1	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m <sup>3</sup> /ł						
Sound power level,			ID	For water-/brine-to-water heat pumps:Rated									
ndoors/outdoors	LWA	-	dB	brine or water flow rate, outdoor heat	-	-	m³/ł						
Annual energy consumption	QHE	1587	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	., Ltd	1	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

Model(s):				hnical parameters ACHP-H08/4R3HA-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 heate	er:	no										
Heat pump combination heater:		no										
Declared climate condition		Warmer										
Declared temperature application		Mediun	n	1	1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	8.1	kW	Seasonal space heating energy efficiency	Hs	151	%					
Declared capacity for heating for part load at outdoor temperature Tj	indoor tem	perature 2	0 °C and	Declared coeffient of performance or primary indoor temperature 20°C and outdoor temper		itio for pai	rt load					
Tj = -7°C	Pdh	-	kW	$T_i = -7^{\circ}C$	COPd	-	-					
$\frac{Tj}{Tj} = +2^{\circ}C$	Pdh	8.06	kW	$Tj = +2^{\circ}C$	COPd	2.33	-					
$T_i = +7^{\circ}C$	Pdh	5.22	kW	$T_{j} = +7^{\circ}C$	COPd	3.22	-					
$Tj = +12^{\circ}C$	Pdh	2.57	kW	$Tj = +12^{\circ}C$	COPd	5.39	-					
Tj = bivalent temperature	Pdh	5.22	kW	Tj = bivalent temperature	COPd	3.22	-					
$T_i = operation limit temperature$	Pdh	8.06	kW	Tj = operation limit temperature	COPd	2.33	_					
For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°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	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 th	nan active	mode	<u> </u>	Supplemantary heater		<u>                                      </u>						
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	1.7	kW					
Thermostat-off mode	P TO	0.030		• • • •		<u> </u>						
Standby mode	Гѕв	0.020		Type of energy input	1	Electricity						
Crankcase heater mode	PcK	0.000	kW									
Other items		1	1		1							
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m³/ł					
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> /ł					
Annual energy consumption	QHE	2811	kWh	exchanger								
For heat pump combination heater	~~~~				1	<u>.                                     </u>						
Declaed load profile		-		Water heating energy efficiency	Hwh	_	%					
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWł					
Contact details	AUX Co 1166 Mir		1	Road, Jiangshan Yinzhou District, Ningbo, 31	5191 Zhej	iang, Chir						

(\*) 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):		Outdoo		cchnical parameters ACHP-H08/4R3HA-O								
		yes										
· ·		no										
Brine-to-water heat pump:		no										
			no									
			no									
			no Average									
Declared temperature application	on	Low										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	8.1	kW	Seasonal space heating energy efficiency	Hs	200	%					
Declared capacity for heating for part 20°C and outdoor temperature Tj	t load at indo	oor tempe	rature	Declared coeffient of performance or prima at indoor temperature 20°C and outdoor ter			part loa					
$\Gamma j = -7^{\circ}C$	Pdh	7.17	kW	$Tj = -7^{\circ}C$	COPd	3.35	-					
$\Gamma_j = +2^{\circ}C$	Pdh	4.36	kW	$Tj = +2^{\circ}C$	COPd	5.09	-					
$\Gamma j = +7^{\circ}C$	Pdh	2.80	kW	$T_{j} = +7^{\circ}C$	COPd	6.82	-					
$\frac{r_j + r_j c}{r_j = +12^{\circ}C}$	Pdh	1.25	kW	$T_j = +12^{\circ}C$	COPd	8.35	_					
Γj = bivalent temperature Γj = operation limit	Pdh Pdh	7.17 6.44	kW kW	Tj = bivalent temperature Tj = operation limit temperature	COPd COPd	3.35	-					
emperature For air-to-water heat pumps:	Pdh	-	kW	For air-to-water heat pumps:	COPd	-						
$fj = -15^{\circ}C(ifTOL < -20^{\circ}C)$	1 un	_	K 11	$Tj = -15^{\circ}C(ifTOL < -20^{\circ}C)$	coru		_					
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	node	Supplemantary heater			-					
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	1.66	kW					
Thermostat-off mode	PTO	0.030	kW									
Standby mode	Psb	0.020	kW	Type of energy input	1	Electricit	у					
Crankcase heater mode			kW									
Other items	Рск	0.000	K VV									
Juler items				For air-to-water heat pumps: Rated air flow	7							
Capacity control	V	ariable		rate, outdoors	-	4000	m <sup>3</sup> /h					
Sound power level,				For water-/bri ne-to-water heat								
ndoors/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	3294	kWh	outdoor heat exchanger								
For heat pump combination heat		5274	11 ** 24		1		I					
Declaed load profile		_		Water heating energy efficiency	Hwh	_	%					
Daily electricity consumption	0.1	_	kWh	Daily fuel consumption			kWh					
Contact details	Qelec AUX Co.				Qfuel							
				Road, Jiangshan Yinzhou District, Ningbo,								
				ation heaters, the rated heat output Prated is a nentary heater Psup is equal to the supplement	-	-						
	y measure	ment th	en the c	default degradation coefficient is $Cdh = 0.9$								

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

Model(s):		Outdoo	Technical parameters Outdoor unit:ACHP-H08/4R3HA-O									
Air-to-water heat ump:		yes										
Water-to-water heat pump:		no										
Brine-to-water heat pump:		no										
Low-temperature heat pump:		no										
Equipped with a supplementary heater: r		no										
Heat pump combination heater:		no										
Declared climate condition		-	Average									
Declared temperature application			n		1	1						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	6.6	kW	Seasonal space heating energy efficiency	Hs	132	%					
Declared capacity for heating for part loa and outdoor temperature Tj	id at indoor	temperatu	re 20°C	Declared coefficient of performance or pri- load at indoor temperature 20°C and out			or part					
$\Gamma j = -7^{\circ}C$	Pdh	5.84	kW	$Tj = -7^{\circ}C$	COPd	2.16	-					
$\Gamma j = +2^{\circ}C$	Pdh	3.55	kW	$Tj = +2^{\circ}C$	COPd	3.30	-					
$\Gamma j = +7^{\circ}C$	Pdh	2.28	kW	$Tj = +7^{\circ}C$	COPd	4.34	-					
$Tj = +12^{\circ}C$	Pdh	1.02	kW	Tj=+12°C	COPd	5.33	-					
$\Gamma j = bivalent temperature$	Pdh	5.84	kW	Tj = bivalent temperature	COPd	2.16	-					
Γj = operation limit temperature	Pdh	4.90	kW	Tj = operation limit temperature	COPd	1.84	-					
For air-to-water heat pumps: Tj = .15°C (ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps: Ti=-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								
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	1.7	kW					
Thermostat-off mode	Рто	0.030	kW		· · ·	I						
Standby mode	PsB	0.020	kW	Type of energy input	E	Electricity	7					
Crankcase heater mode Other items	P(X	0.000	kW									
Capacity control	\ \	ariable		For air-to-water heat pumps: Rated airflow rate, outdoors	-	4000	m <sup>3</sup> /h					
Sound power level, ndoors/outdoors	LWA	42/59	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	-	-	m³/h					
Annual energy consumption	QHE	4035	kWh	outdoor heat exchanger								
For heat pump combination heater	r,											
Declaed load profile		-		Water heating energy efficiency	Owh	-	%					
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWł					
Contact details	AUX Co. 1166 Mir		North	Road, Jiangshan Yinzhou District, Ningbo	o, 315191 Z	Zhejiang,	China					

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):				hnical parameters ACHP-H08/4R3HA-O									
		yes											
Brine-to-water heat pump:		no											
Low-temperature heat pump:		no	no										
		no											
Heat pump combination heater:	ater.	no											
Declared climate condition		Colder											
Declared temperature application		Low											
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit						
Rated heat output(*)	Prated	7.0	kW	Seasonal space heating energy efficiency	Os	168	%						
Declared capacity for heating for part load and outdoor temperature Tj	l at indoor te	mperature	20 °C	Declared coeffient of performance or primar indoor temperature 20°C and outdoor temperature		atio for pa	art load						
$\Gamma j = -7^{\circ}C$	Pdh	4.46	kW	$Tj = -7^{\circ}C$	COPd	3.66	-						
$\Gamma j = +2^{\circ}C$	Pdh	2.69	kW	$Tj = +2^{\circ}C$	COPd	5.20	-						
$Tj = +7^{\circ}C$	Pdh	1.65	kW	$Tj = +7^{\circ}C$	COPd	6.53	-						
$\Gamma j = +12^{\circ}C$	Pdh	1.65	kW	$Tj = +12^{\circ}C$	COPd	7.96	-						
Tj = bivalent temperature	Pdh	5.69	kW	Tj = bivalent temperature	COPd	2.83	-						
Γj = operation limit temperature	Pdh	4.06	kW	Tj = operation limit temperature	COPd	1.95	-						
For air-to-water heat pumps: $\Gamma_{j} = -15^{\circ}C(ifTOL <-20^{\circ}C)$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	COPd	-	-						
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C						
Cycling interval capacity for neating	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	r than activ	ve mode		Supplemantary heater		·							
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	2.94	kW						
Thermostat-off mode	Рто	0.030	kW			I							
Standby mode				Type of energy input	F	Electricity	7						
Crankcase heater mode	PSB PCK	0.020	kW										
Other items	CK	0.000	K VV										
Capacity control	V	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m³/h						
Sound power level, indoors/outdoors	LWA	-	dB	For water-/bri ne-to-wate r heat pumps:Rated brine or water flow rate,	-	-	m³/h						
Annual energy consumption	QHE	4036	kWh	outdoor heat exchanger									
For heat pump combination heater		1000			ı								
Declaed load profile		-		Water heating energy efficiency	Owh	-	%						
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	_	kWł						
Contact details	AUX Co		1	Road, Jiangshan Yinzhou District, Ningbo, 3									

(\*) 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

Madal(s).		0.14.1-		hnical parameters							
			Outdoor unit:ACHP-H08/4R3HA-O								
		yes									
1 1			no								
1 1		no									
		no									
Equipped with a supplementary heat	er:	no									
Heat pump combination heater:		no									
Declared climate condition		Colder									
Declared temperature application		Mediun	1								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	5.8	kW	Seasonal space heating energy efficiency	Os	111	%				
Declared capacity for heating for part load at outdoor temperature Tj	indoor tem	perature 2	0 °C and	dDeclared coeffient of performance or primary indoor temperature 20°C and outdoor temper		atio for pa	rt load				
$Tj = -7^{\circ}C$	Pdh	3.86	kW	$Tj = -7^{\circ}C$	COPd	2.48	-				
$Tj = +2^{\circ}C$	Pdh	2.21	kW	Tj=+2°C	COPd	3.35	-				
$Tj = +7^{\circ}C$	Pdh	1.44	kW	Tj=+7°C	COPd	4.11	-				
$\Gamma j = +12^{\circ}C$	Pdh	1.47	kW	Tj=+12°C	COPd	5.92	-				
Tj = bivalent temperature	Pdh	4.71	kW	Tj = bivalent temperature	COPd	1.90	-				
$\Gamma_j = operation limit temperature$	Pdh	2.80	kW	$T_j = operation limit temperature$	COPd	1.22	-				
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 t	han active	e mode		Supplemantary heater							
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	3.0	kW				
Thermostat-off mode	Рто	0.030	kW								
Standby mode	PSB	0.020	kW	Type of energy input	1	Electricity	r				
Crankcase heater mode	P CK	0.000	kW								
	ICK	0.000	K VV								
Other items Capacity control	N	ariable		For air-to-water heat pumps: Rated airflow rate, outdoors	- 4000 m <sup>2</sup>		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	5014	kWh	exchanger			111 / 11				
For heat pump combination heater	UUL VUL		A 11 11	1	1	<u> </u>					
Declaed load profile		-		Water heating energy efficiency	Hwh		%				
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption			kWh				
Daily electricity consumption	Qelec	-	кvvn	Dany fuer consumption	Qfuel	-	ĸwh				
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