			Te	chnical parameters								
Model(s):		Outdoo		ACHP-H08/4R3HA-O Indoor unit: ACHP-H08	8/4R3HA-I							
Air-to-water heat ump:		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			Warmer									
Declared temperature application		Low										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	8.1	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	270	%					
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j				Declared coeffient of performance or primary of indoor temperature 20°C and outdoor temperature 20°C.		o for part	load at					
T _j = -7°C	Pdh	_	kW	T _j = -7°C	COPd	-	-					
T _j = +2°C	Pdh	7.80	kW	$T_i = +2^{\circ}C$	COPd	3.98	-					
T _j = +7°C	Pdh	5.21	kW	$T_j = +7^{\circ}C$	COPd	6.26	-					
T _j = +12°C	Pdh	2.31	kW	$T_j = +12$ °C	COPd	9.23	-					
T _j = bivalent temperature	Pdh	5.21	kW	T _j = bivalent temperature	COPd	6.26	-					
T _i = operation limit temperature	Pdh	7.80	kW	T _i = operation limit temperature	COPd	3.98	-					
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	COPd	-	-					
Bivalent temperature	T _{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C					
Cycling interval capacity for heating	P _{cych}	-	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								
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	0.3	kW					
Thermostat-off mode	P _{TO}	0.030	kW				_					
Standby mode	P _{SB}	0.020	kW	Type of energy input		Electricity	,					
Crankcase heater mode	P _{CK}	0.000	kW									
Other items												
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m ³ /h					
Sound power level,			40	For water-/brine-to-water heat pumps:Rated								
indoors/outdoors	L _{WA}		dB	brine or water flow rate, outdoor heat	-	-	m³/h					
Annual energy consumption	Q _{HE}	1587	kWh	exchanger								
For heat pump combination heate	r	-			-							
Declaed load profile		-		Water heating energy efficiency	$\eta_{ m wh}$	-	%					
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh					
Contact details	AUX Co.	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(T_j). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9

			Tech	nnical parameters								
Model(s):		Outdoo	Outdoor unit: ACHP-H08/4R3HA-O Indoor unit: ACHP-H08/4R3HA-I									
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 heate	er:	no										
Heat pump combination heater:		no										
Declared climate condition		Warme	Narmer Varmer									
Declared temperature application			ledium									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	7.6	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	169	%					
Declared capacity for heating for part load at indoor temperate °C and outdoor temperature T _j			re 20	Declared coeffient of performance or primary indoor temperature 20°C and outdoor temper								
T _j = -7°C	Pdh	-	kW	T _j = -7°C	COPd	-	-					
T _j = +2°C	Pdh	7.30	kW	T _j = +2°C	COPd	2.59	-					
T _j = +7°C	Pdh	4.89	kW	$T_j = +7^{\circ}C$	COPd	3.92	-					
T _j = +12°C	Pdh	2.17	kW	T _j = +12°C	COPd	5.55	-					
T _j = bivalent temperature	Pdh	4.89	kW	T _j = bivalent temperature	COPd	3.92	-					
T _j = operation limit temperature	Pdh	7.30	kW	T_j = operation limit temperature	COPd	2.59	-					
For air-to-water heat pumps: T _i = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: T _i = -15°C (if TOL < -20°C)	COPd	-	-					
Bivalent temperature	T _{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C					
Cycling interval capacity for heating	P _{cych}	-	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	han active	mode		Supplemantary heater								
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	0.3	kW					
Thermostat-off mode	P _{TO}	0.030	kW									
Standby mode	P _{SB}	0.020	kW	Type of energy input	E	Electricity	•					
Crankcase heater mode	P _{CK}	0.000	kW									
Other items	<u>I</u>											
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	-	-	m³/h					
Annual energy consumption	Q_{HE}	2368	kWh	exchanger			111 711					
For heat pump combination heater	<u>. </u>			-								
Declaed load profile		-		Water heating energy efficiency	η_{wh}	-	%					
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh					
Contact details	AUX Co.,		North F	Road, Jiangshan Yinzhou District, Ningbo, 315		ng, China	a					
	output of	a supple	ementa	heaters, the rated heat output Prated is equal try heater Psup is equal to the supplementary of degradation coefficient is Cdh = 0.9								

		1		chnical parameters						
Model(s):		Outdoo	r unit:	ACHP-H08/4R3HA-O Indoor unit: ACHP-I	H08/4R3H	A-I				
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 supplementar		no								
Heat pump combination heater	:	no								
Declared climate condition		Average	Э							
Declared temperature application	on	Low	T		1	1				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output(*)	Prated	8.1	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	200	%			
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			Declared coeffient of performance or prima at indoor temperature 20°C and outdoor tele			part load				
T _j = -7°C	Pdh	7.17	kW	$T_j = -7^{\circ}C$	COPd	3.35	-			
T _j = +2°C	Pdh	4.36	kW	$T_j = +2$ °C	COPd	5.09	-			
T _j = +7°C	Pdh	2.80	kW	$T_j = +7^{\circ}C$	COPd	6.82	-			
T _j = +12°C	Pdh	1.25	kW	$T_j = +12^{\circ}C$	COPd	8.35	-			
T _j = bivalent temperature	Pdh	7.17	kW	T _j = bivalent temperature	COPd	3.35	-			
T _j = operation limit temperature	Pdh	6.44	kW	T _j = operation limit temperature	COPd	3.04	-			
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	COPd	-	-			
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C			
Cycling interval capacity for heating	P _{cych}	-	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 m	node	Supplemantary heater						
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	1.66	kW			
Thermostat-off mode	P _{TO}	0.030	kW							
Standby mode	P_{SB}	0.020	kW	Type of energy input	E	′				
Crankcase heater mode	P _{CK}	0.000	kW							
Other items	•				•					
Capacity control	V	′ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m ³ /h			
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	_	1	m ³ /h			
Annual energy consumption	Q _{HE}	3294	kWh	outdoor heat exchanger	_	-	m /N			
For heat pump combination he		0234	IVA A I I	II- 1.355. Hour skondings.						
	atei			Motor booting anarous official			0/			
Declaed load profile		- I	I , , ,	Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{elec}		kWh	Daily fuel consumption	Q_{fuel}	-	kWh			
Contact details	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China									
for heating Pdesignh, and the neating $\sup(T_j)$.	ated heat	output o	f a sup	nation heaters, the rated heat output Prated in oplementary heater Psup is equal to the support default degradation coefficient is Cdh = 0.9	-					

		ical parameters CHP-H08/4R3HA-O Indoor unit: ACHF	P-H08/4R3	ЗНА-І					
no no									
Average									
Medium									
alue U	nit	Item	Symbol	Value	Unit				
.6 k'	W	Seasonal space heating energy efficiency	$\eta_{\rm s}$	132	%				
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j				•					
84 k'	W	T _j = -7°C	COPd	2.16	=				
.55 k	W		COPd	3.30	-				
.28 k	W	·	COPd	4.34	_				
.02 k	W	T _j = +12°C	COPd	5.33	_				
.84 k'	W	T _j = bivalent temperature	COPd	2.16	_				
.90 k	W	T _i = operation limit temperature	COPd	1.84	-				
- k'	w	For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	COPd	-	-				
-7 °	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C				
- k'	w	Cycling interval efficiency	COPcyc	-	-				
).9	-	Heating water operating limit temperature	WTOL	60	°C				
mode		Supplemantary heater							
020 k'	W	Rated heat output (*)	Psup	1.7	kW				
030 k'	W			·					
020 k'	W	Type of energy input	E	Electricity					
000 k	W								
<u>I</u>		1	1						
ble		For air-to-water heat pumps:	-	4000	m ³ /h				
2/59 d	iB	For water-/brine-to-water heat	_	_	m ³ /h				
)35 kV	Λh	outdoor heat exchanger			111 /11				
"	ļ	<u> </u>							
		Water heating energy efficiency	n	_ [%				
_ [2\/	//h	0 0, ,			kWh				
				nejiang, C					
	84 k 55 k 28 k 02 k 84 k 90 k - k 7 - k 020 k 030 k 020 k 030 k 020 k 030 k 030 k 040 k 040 k	66 kW mperature 84 kW 55 kW 28 kW 02 kW 84 kW 90 kW - kW 7 °C - kW .9 - mode 020 kW 030 kW 020 kW 030 kW 030 kW 040 kW 050 kW 050 kW 060 kW 070	Seasonal space heating energy efficiency Declared coeffient of performance or prin load at indoor temperature 20°C and outo 84 kW T _j = -7°C T _j = +2°C 28 kW T _j = +12°C 84 kW T _j = bivalent temperature 90 kW T _j = operation limit temperature For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C) For air-to-water heat pumps: Operation limit temperature Cycling interval efficiency Heating water operating limit temperature Supplemantary heater Bated heat output (*) Type of energy input ble For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water flow rate, outdoor heat exchanger Water heating energy efficiency Water heating energy efficiency Daily fuel consumption	Seasonal space heating energy efficiency Declared coefficient of performance or primary energy load at indoor temperature 20°C and outdoor 10°C and	Seasonal space heating energy efficiency Seasonal space heating energy efficiency Seasonal space heating energy efficiency Declared coefficient of performance or primary energy ratio for load at indoor temperature 20°C and outdoor temperature T _j Seasonal space heating energy efficiency T _j = -7°C COPd 2.16 Seasonal space heating energy efficiency COPd 3.30 COPd 3.30 COPd 4.34 COPd 4.34 COPd 4.34 COPd 4.34 COPd 5.33 COPd 5.33 COPd 5.33 COPd 5.34 COPd 5.34 COPd 5.34 COPd 5.34 COPd 5.35 COPd 5.35 COPd 5.36 COPd C				

sup(T_j).

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

			Tech	nical parameters								
Model(s):		Outdoo		ACHP-H08/4R3HA-O Indoor unit: ACHP-F	H08/4R3H	A-I						
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	ater:	no										
Heat pump combination heater:		no										
Declared climate condition		Colder	Colder									
Declared temperature application			ow									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	7.0	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	168	%					
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coeffient of performance or prima at indoor temperature 20°C and outdoor ter			oart load					
T _j = -7°C	Pdh	4.46	kW	$T_j = -7^{\circ}C$	COPd	3.66	-					
T _j = +2°C	Pdh	2.69	kW	$T_j = +2^{\circ}C$	COPd	5.20	_					
T _j = +7°C	Pdh	1.65	kW	$T_j = +7^{\circ}C$	COPd	6.53	-					
T _j = +12°C	Pdh	1.65	kW	T _j = +12°C	COPd	7.96	-					
T _j = bivalent temperature	Pdh	5.69	kW	T _j = bivalent temperature	COPd	2.83	-					
T _j = operation limit temperature	Pdh	4.06	kW	T _j = operation limit temperature	COPd	1.95	-					
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	COPd	-	-					
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C					
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	°C					
Power consumption in modes othe	r than activ	ve mode		Supplemantary heater								
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	2.94	kW					
Thermostat-off mode	P _{TO}	0.030	kW									
Standby mode	P_{SB}	0.020	kW	Type of energy input	1	Electricity						
Crankcase heater mode	P _{CK}	0.000	kW									
Other items												
Capacity control	V	′ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	-	-	m³/h					
Annual energy consumption	Q _{HE}	4036	kWh	outdoor heat exchanger								
For heat pump combination heater	1	<u> </u>		LI.	<u> </u>							
Declaed load profile		-		Water heating energy efficiency	$\eta_{ m wh}$	-	%					
Daily electricity consumption	Q _{elec}	_	kWh	Daily fuel consumption	Q _{fuel}	-	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(T_j).

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

			Tecl	nnical parameters							
Model(s):			Outdoor unit: ACHP-H08/4R3HA-O Indoor unit: ACHP-H08/4R3HA-I								
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 heat	ter:	no									
Heat pump combination heater:		no	10								
Declared climate condition		Colder	Colder								
Declared temperature application			1								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	5.8	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	111	%				
Declared capacity for heating for part loa °C and outdoor temperature T _j	d at indoor	temperat	ure 20	Declared coeffient of performance or primary indoor temperature 20°C and outdoor temper		tio for pa	rt load at				
T _j = -7°C	Pdh	3.86	kW	$T_j = -7^{\circ}C$	COPd	2.48	-				
T _j = +2°C	Pdh	2.21	kW	T _j = +2°C	COPd	3.35	-				
T _j = +7°C	Pdh	1.44	kW	$T_j = +7^{\circ}C$	COPd	4.11	-				
T _j = +12°C	Pdh	1.47	kW	T _j = +12°C	COPd	5.92	-				
T _j = bivalent temperature	Pdh	4.71	kW	T _j = bivalent temperature	COPd	1.90	-				
T _j = operation limit temperature	Pdh	2.80	kW	T _j = operation limit temperature	COPd	1.22	-				
For air-to-water heat pumps:	Ddb		kW	For air-to-water heat pumps:	COD4						
$T_j = -15$ °C (if TOL < -20°C)	Pdh	-	KVV	$T_j = -15$ °C (if TOL < -20°C)	COPd	_	-				
Bivalent temperature	T_biv	-15	ů	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C				
Cycling interval capacity for heating	P _{cych}	-	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 active	e mode		Supplemantary heater							
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	3.0	kW				
Thermostat-off mode	P _{TO}	0.030	kW			•					
Standby mode	P _{SB}	0.020	kW	Type of energy input	ı	Electricity	,				
Crankcase heater mode	P _{CK}	0.000	kW			-					
Other items	O.K										
Capacity control	V	ariable		For air-to-water heat pumps:	-	4000	m ³ /h				
Sound power level,				Rated air flow rate, outdoors							
indoors/outdoors	L_WA	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_	_	m³/h				
Annual energy consumption	Q_{HE}	5014	kWh	exchanger		-	III /fi				
For heat pump combination heater			I	<u>-</u>							
Declaed load profile		_		Water heating energy efficiency	η_{wh}	_	%				
Daily electricity consumption	0.	_	kWh	Daily fuel consumption			kWh				
Daily Glectricity Consumption	Q _{elec}		VAAII	Deany ruer consumption	Q_{fuel}	-	VAAII				
Contact details	AUX Co., 1166 Min		North F	Road, Jiangshan Yinzhou District, Ningbo, 315	191 Zhejia	ng, China	a				
heating Pdesignh, and the rated hea	t output o	f a suppl	ementa	heaters, the rated heat output Prated is equal ary heater Psup is equal to the supplementary		•					

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

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