			Tec	hnical parameters								
Model(s):		Outdoo		ACHP-H04/4R3HA-O Indoor unit: ACHP-	H04/4R3H	A-I						
Air-to-water heat ump:	neat ump: yes											
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 heate	er:	no										
Declared climate condition Warmer												
Declared temperature applicat	tion	Low										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	5.5	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	236	%					
Declared capacity for heating for perfective temperature 20°C and outdoor ten				Seasonal space heating energy								
T <sub>j</sub> = -7°C	Pdh	-	kW	$T_j = -7^{\circ}C$	COPd	-	-					
T <sub>j</sub> = +2°C	Pdh	5.37	kW	$T_j = +2^{\circ}C$	COPd	3.94	-					
T <sub>j</sub> = +7°C	Pdh	3.54	kW	$T_j = +7^{\circ}C$	COPd	5.92	-					
T <sub>j</sub> = +12°C	Pdh	1.57	kW	T <sub>j</sub> = +12°C	COPd	7.91	-					
T <sub>i</sub> = bivalent temperature	Pdh	3.54	kW	T <sub>i</sub> = bivalent temperature	COPd	5.92	-					
T <sub>j</sub> = operation limit temperature	Pdh	5.37	kW	T <sub>j</sub> = operation limit temperature	COPd	3.94	-					
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if TOL < -20°C)	Pdh	-	kW		COPd	-	-					
Bivalent temperature	T <sub>biv</sub>	7	°C		TOL	2	°C					
Cycling interval capacity for heating	P <sub>cych</sub>	-	kW	Cycling interval efficiency	COPcyc	1	1					
Degradation co-efficient(**)	Cdh	0.9	ı		WTOL	60	ပ္					
Power consumption in modes	other thar	n active r	node	Supplemantary heater								
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	0.13	kW					
Thermostat-off mode	P <sub>TO</sub>	0.030	kW			ı						
Standby mode	P <sub>SB</sub>	0.020	kW	Type of energy input		Electricity	/					
Crankcase heater mode		0.000	kW	3, 1		•	•					
	P <sub>CK</sub>	0.000	KVV	Ц								
Other items	1			П=	I							
Capacity control	٧	'ariable	T	For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m <sup>3</sup> /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	$Q_{HE}$	1229	kWh	outdoor heat exchanger								
For heat pump combination he	eater				_							
Declaed load profile		-		Water heating energy efficiency	$\eta_{\text{wh}}$	-	%					
Daily electricity consumption	$Q_{\mathrm{elec}}$	-	kWh	Daily fuel consumption	$Q_{\text{fuel}}$	-	kWh					
Contact details	AUX Co.		North I	Road, Jiangshan Yinzhou District, Ningbo		Zhejiang	, China					
load for heating Pdesignh, and capacity for heating $\sup(T_j)$ .	d the rated	l heat ou	tput of	nation heaters, the rated heat output Pra a supplementary heater Psup is equal to default degradation coefficient is Cdh = 0	the suppl		_					

			7	Fechnical parameters								
Model(s):		Outdoo	r unit:	ACHP-H04/4R3HA-O Indoor unit: ACHP-H04	4/4R3HA-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 heater:												
Heat pump combination heate	er:	no										
Declared climate condition		Warme	r									
			1									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	5	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	156	%					
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>				tem Symbol Value Unit Seasonal space heating energy efficiency $\eta_a$ 156 %  Declared coeffient of performance or primary energy ratio for part load at addoor temperature 20°C and outdoor temperature T <sub>j</sub> $T_j = -7^{\circ}C$ COPd COPd 2.50 - COPd 3.68 - CO								
T <sub>j</sub> = -7°C	Pdh	-	kW	T <sub>j</sub> = -7°C	COPd	-	-					
T <sub>j</sub> = +2°C	Pdh	4.87	kW	T <sub>j</sub> = +2°C	COPd	2.50						
T <sub>j</sub> = +7°C	Pdh	3.21	kW	T <sub>j</sub> = +7°C	COPd	3.68	-					
T <sub>j</sub> = +12°C	Pdh	1.43	kW	T <sub>j</sub> = +12°C	COPd	5.15	-					
T <sub>j</sub> = bivalent temperature	Pdh	3.21	kW	T <sub>j</sub> = bivalent temperature	COPd	3.68	-					
T <sub>j</sub> = operation limit temperature	Pdh	4.87	kW	T <sub>j</sub> = operation limit temperature	COPd	2.51	-					
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: T <sub>i</sub> = -15°C (if TOL < -20°C)	COPd	-	-					
Bivalent temperature	T <sub>biv</sub>	7	°C	For air-to-water heat pumps:	TOL	2	°C					
Cycling interval capacity for heating	P <sub>cych</sub>	-	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	Supplemantary heater	Į.							
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	0.13	kW					
Thermostat-off mode	P <sub>TO</sub>	0.030	kW									
Standby mode	$P_{SB}$	0.020	kW	Type of energy input	į į	Electricity	,					
Crankcase heater mode	P <sub>CK</sub>	0.000	kW									
Other items	•	•			•							
Capacity control	V	′ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m³/h					
Sound power level,	L <sub>WA</sub>	_	dB	For water-/brine-to-water heat pumps:Rated								
indoors/outdoors		4007		brine or water flow rate, outdoor heat	-	-	m³/h					
Annual energy consumption	Q <sub>HE</sub>	1684	kWh	exchanger								
For heat pump combination he	eater		ı	Market beatless of the second			0/					
Declaed load profile		- I	1			-						
Daily electricity consumption	Q <sub>elec</sub>	<u> </u>	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	кVVh					
Contact details		igguang				-						
				·	=	_						
sup(T <sub>j</sub> ).				ementary heater Psup is equal to the supplemer default degradation coefficient is Cdh = 0.9	nary capac	aly for ne	aung					
( ) ii can is not determined b	y measure	aneni in	en uie (	ueraun degradation coemicient is Cun – 0.9								

		•	Techni	cal parameters							
Model(s):			Outdoor unit: ACHP-H04/4R3HA-O Indoor unit: ACHP-H04/4R3HA-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 heate	r:	no									
Heat pump combination heater:		no									
Declared climate condition		Average	Average								
Declared temperature application		Low									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	5.5	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	190	%				
Declared capacity for heating for part load at indoor temperate and outdoor temperature $T_j$				Declared coeffient of performance or prin load at indoor temperature 20°C and outcome.	-	-	part				
T <sub>j</sub> = -7°C	Pdh	4.87	kW	$T_j = -7^{\circ}C$	COPd	3.23	-				
T <sub>i</sub> = +2°C	Pdh	2.9	kW	T <sub>i</sub> = +2°C	COPd	4.84	-				
T <sub>i</sub> = +7°C	Pdh	1.90	kW	$T_i = +7^{\circ}C$	COPd	6.46	-				
T <sub>i</sub> = +12°C	Pdh	0.85	kW	T <sub>i</sub> = +12°C	COPd	9.62	-				
T <sub>i</sub> = bivalent temperature	Pdh	4.87	kW	T <sub>i</sub> = bivalent temperature	COPd	3.23	-				
T <sub>i</sub> = operation limit temperature	Pdh	4.34	kW	T <sub>i</sub> = operation limit temperature	COPd	2.86	-				
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	COPd	-	-				
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C				
Cycling interval capacity for heating	P <sub>cych</sub>	-	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	<u>.</u>	<u> </u>					
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	1.16	kW				
Thermostat-off mode	P <sub>TO</sub>	0.030	kW	( )							
Standby mode	P <sub>SB</sub>	0.020	kW	Type of energy input	l ,	Electricity					
Crankcase heater mode	P <sub>CK</sub>	0.000	kW								
Other items	OK			Ц	<u>L</u>						
Capacity control	V	′ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m³/h				
Sound power level, indoors/outdoors	L <sub>WA</sub>	_	dB	For water-/brine-to-water heat							
Annual energy consumption	Q <sub>HE</sub>	2355	kWh	pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h				
For heat pump combination heater		<u> </u>		<u> </u>	I						
· ·				Water booting anargy officional			0/				
Declaed load profile		-	1147	Water heating energy efficiency	η <sub>wh</sub>	-	%				
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	$Q_{\text{fuel}}$	-	kWh				
Contact details	AUX Co. 1166 Min		North I	Road, Jiangshan Yinzhou District, Ningbo,	315191 Zh	nejiang, C	hina				
				leaters, the rated heat output Prated is equ y heater Psup is equal to the supplementar		_					

sup(T<sub>i</sub>).

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

			Tecl	hnical parameters					
Model(s):		Outdoo		ACHP-H04/4R3HA-O Indoor unit: ACH	IP-H04/4F	R3HA-I			
Air-to-water heat ump:		yes							
Water-to-water heat pump:		no							
Brine-to-water heat pump:		no							
Low-temperature heat pump:		no							
		no							
Heat pump combination heate	-	no							
Declared climate condition		Average	Э						
Declared temperature applicat	tion	Medium							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output(*)	Prated	5.5	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	131	%		
Declared capacity for heating for perfective temperature 20°C and outdoor ten				Declared coeffient of performance or pr load at indoor temperature 20°C and ou					
$T_j = -7^{\circ}C$	Pdh	4.87	kW	$T_j = -7$ °C	COPd	1.96	-		
T <sub>j</sub> = +2°C	Pdh	2.96	kW	$T_j = +2$ °C	COPd	3.48	-		
$T_j = +7^{\circ}C$	Pdh	1.90	kW	$T_j = +7^{\circ}C$	COPd	4.28	-		
T <sub>j</sub> = +12°C	Pdh	0.85	kW	T <sub>j</sub> = +12°C	COPd	6.58	-		
T <sub>j</sub> = bivalent temperature	Pdh	4.87	kW	T <sub>j</sub> = bivalent temperature	COPd	1.96	-		
T <sub>j</sub> = operation limit temperature	Pdh	3.42	kW	T <sub>j</sub> = operation limit temperature	COPd	1.83	-		
For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: T <sub>i</sub> = -15°C (if TOL < -20°C)	COPd	-	-		
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C		
Cycling interval capacity for heating	P <sub>cych</sub>	-	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	n active i	mode	Supplemantary heater	<u> </u>				
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	2.08	kW		
Thermostat-off mode	P <sub>TO</sub>	0.030	kW	,					
Standby mode	P <sub>SB</sub>	0.020	kW	Type of energy input	E	Electricity	,		
Crankcase heater mode	Рск	0.000	kW						
Other items					I.				
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m <sup>3</sup> /h		
Sound power level,	L <sub>WA</sub>	38/56	dB	For water-/brine-to-water heat			3		
indoors/outdoors		2200	1.3 5 "	pumps:Rated brine or water flow rate,	-	-	m <sup>3</sup> /h		
Annual energy consumption	Q <sub>HE</sub>	3399	kWh	outdoor heat exchanger					
For heat pump combination he	eater				1				
Declaed load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%		
Daily electricity consumption	$Q_{\text{elec}}$	-	kWh	Daily fuel consumption	$Q_{\text{fuel}}$	-	kWh		
Contact details	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China								
load for heating Pdesignh, and capacity for heating $\sup(T_j)$ .	d the rated	l heat οι	itput of	ination heaters, the rated heat output Pra a supplementary heater Psup is equal to default degradation coefficient is Cdh = 0	the suppl		-		

		•	Tech	nical parameters								
Model(s):			r unit:	ACHP-H04/4R3HA-O Indoor unit: ACHF	P-H04/4R3	HA-I						
Air-to-water heat ump:		yes										
Water-to-water heat pump:		no										
Brine-to-water heat pump:		no	no									
Low-temperature heat pump:		no	no									
Equipped with a supplementary h	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	4.6	kW	Seasonal space heating energy efficiency	$\eta_{\mathrm{s}}$	157	%					
Declared capacity for heating for part 20°C and outdoor temperature T <sub>j</sub>	oad at indoc	or tempera	ature	Declared coeffient of performance or prir load at indoor temperature 20°C and out			part					
T <sub>j</sub> = -7°C	Pdh	2.75	kW	$T_j = -7^{\circ}C$	COPd	3.50	-					
T <sub>j</sub> = +2°C	Pdh	1.77	kW	$T_j = +2^{\circ}C$	COPd	4.95	-					
T <sub>j</sub> = +7°C	Pdh	1.17	kW	$T_j = +7^{\circ}C$	COPd	5.53	-					
T <sub>j</sub> = +12°C	Pdh	1.43	kW	T <sub>i</sub> = +12°C	COPd	7.67	-					
T <sub>i</sub> = bivalent temperature	Pdh	3.72	kW	T <sub>i</sub> = bivalent temperature	COPd	2.57	-					
T <sub>i</sub> = operation limit temperature	Pdh	2.80	kW	T <sub>i</sub> = operation limit temperature	COPd	1.97	_					
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	T <sub>biv</sub>	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C					
Cycling interval capacity for heating	P <sub>cych</sub>	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	°C					
Power consumption in modes oth	er than act	ive mode	9	Supplemantary heater								
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	1.80	kW					
Thermostat-off mode	P <sub>TO</sub>	0.030	kW			<u> </u>						
Standby mode	P <sub>SB</sub>	0.020	kW	Type of energy input		Electricity	,					
Crankcase heater mode	P <sub>CK</sub>	0.000	kW	33 .		,						
Other items	' CK	0.000	KVV	<u> </u>								
	1			For air-to-water heat pumps:								
Capacity control	\ \ \	′ariable		Rated air flow rate, outdoors	-	2800	m <sup>3</sup> /h					
Sound power level, indoors/outdoors	L <sub>WA</sub>	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	_	_	m³/h					
Annual energy consumption	$Q_{HE}$	2833	kWh	outdoor heat exchanger			111 /11					
For heat pump combination heate		_000		<u> </u>	1							
Declaed load profile	1	_		Water heating energy efficiency	l n	_	%					
			LAAA		η <sub>wh</sub>							
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	$Q_{\text{fuel}}$	-	kWh					
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<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(T<sub>i</sub>).

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

			Tech	nnical parameters								
Model(s):				ACHP-H04/4R3HA-O Indoor unit: ACHP-H	04/4R3H <i>A</i>	\-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	10									
Heat pump combination heater:		no										
Declared climate condition		Colder										
Declared temperature application		Medium	1			mbol Value Unit  ns 101 %  nergy ratio for part load ature T;  OPd 2.32 - OPd 2.99 - OPd 3.86 - OPd 1.74 - OPd 1.02 - OPd 1.02 - OPd - TOL -22 °C  OPcyc TOL 52 °C  Psup 1.76 kW  Electricity  - 2800 m³/h m³/h						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	3.4	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	101	%					
Declared capacity for heating for part lo °C and outdoor temperature T <sub>j</sub>	ad at indoor	r tempera	ture 20	Declared coeffient of performance or primar at indoor temperature 20°C and outdoor tem			art load					
T <sub>j</sub> = -7°C	Pdh	2.14	kW	$T_j = -7^{\circ}C$	COPd	2.32	-					
T <sub>j</sub> = +2°C	Pdh	1.28	kW	T <sub>j</sub> = +2°C	COPd	2.99	_					
T <sub>j</sub> = +7°C	Pdh	1.02	kW	T <sub>j</sub> = +7°C	COPd	3.86	-					
T <sub>j</sub> = +12°C	Pdh	1.37	kW	T <sub>j</sub> = +12°C	COPd	6.28	-					
T <sub>j</sub> = bivalent temperature	Pdh	2.74	kW	T <sub>j</sub> = bivalent temperature	COPd	1.74	-					
T <sub>i</sub> = operation limit temperature	Pdh	1.64	kW	T <sub>i</sub> = operation limit temperature	COPd	1.02	-					
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: T <sub>j</sub> = -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 <sub>cych</sub>	-	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 acti	ve mode		Supplemantary heater								
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	1.76	kW					
Thermostat-off mode	P <sub>TO</sub>	0.030	kW									
Standby mode	P <sub>SB</sub>	0.020	kW	Type of energy input	E	Electricity	,					
Crankcase heater mode	P <sub>CK</sub>	0.000	kW									
Other items			<u> </u>									
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m³/h					
Sound power level, indoors/outdoors	$L_WA$	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	_	_	m <sup>3</sup> /h					
Annual energy consumption	Q <sub>HE</sub>	3233	kWh	outdoor heat exchanger			/11					
For heat pump combination heater	1	1	1	· · · · · · · · · · · · · · · · · · ·								
Declaed load profile		_		Water heating energy efficiency	$\eta_{wh}$	_	%					
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	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(T<sub>i</sub>).

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