			Tech	nnical parameters								
Model(s):			Outdoor unit: ACHP-H16/5R3HA-O Indoor unit: ACHP-H16/5R3HA-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 h	eater:	no										
Heat pump combination heater:		no										
Declared climate condition		Warmer	•									
Declared temperature application	Declared temperature application Low				ı							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	13.1	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	240	%					
Declared capacity for heating for part $20^{\circ}\mathrm{C}$ and outdoor temperature $\mathrm{T_{j}}$	load at indo	or tempera	ature	Item Symbol Value Unit Seasonal space heating energy efficiency $\eta_s$ 240 %  Declared coeffient of performance or primary energy ratio for part loa at indoor temperature 20°C and outdoor temperature $T_j$ $T_j = -7^{\circ}C$ COPd $T_j = +2^{\circ}C$ COPd 5.36 - $T_j = +12^{\circ}C$ COPd 8.11 - $T_j = 0$ bivalent temperature COPd 5.36 - $T_j = 0$ cOPd 5.36 -			oart load					
T <sub>j</sub> = -7°C	Pdh	-	kW	T <sub>j</sub> = -7°C	COPd	-	-					
T <sub>j</sub> = +2°C	Pdh	12.97	kW		COPd	3.35	-					
T <sub>j</sub> = +7°C	Pdh	8.41	kW	$T_j = +7^{\circ}C$	COPd	5.36	-					
T <sub>j</sub> = +12°C	Pdh	3.87	kW	$T_j = +12^{\circ}C$	COPd	8.11	-					
T <sub>j</sub> = bivalent temperature	Pdh	8.41	kW	T <sub>j</sub> = bivalent temperature	COPd	5.36	-					
T <sub>j</sub> = operation limit temperature	Pdh	12.97	kW	T <sub>j</sub> = operation limit temperature	COPd	3.35	-					
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	Pdh	-	kW	i '	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	-	-					
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C					
Power consumption in modes oth	er than act	ive mode	)	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									
Standby mode	$P_{SB}$	0.020	kW	Type of energy input	ı	Electricity	ty					
Crankcase heater mode	P <sub>CK</sub>	0.000	kW									
Other items												
Capacity control	\	′ariable		' '	-	4650	m³/h					
Sound power level,	1.			·								
indoors/outdoors	L <sub>WA</sub>		dB		-	-	m³/h					
Annual energy consumption	$Q_{HE}$	2884	kWh	outdoor heat exchanger								
For heat pump combination heate	er				-							
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.		North F	Road, Jiangshan Yinzhou District, Ningbo, 31		iang, Chi	na					

<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	nical parameters							
Model(s):		Outdoo	r unit: A	ACHP-H16/5R3HA-O Indoor unit: ACHP-I	H16/5R3H	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 h	eater:	no									
Heat pump combination heater:		no									
Declared climate condition		Warmer									
Declared temperature application		Medium									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	13.8	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	174	%				
Declared capacity for heating for part 20°C and outdoor temperature $T_{j}$	load at indoo	or tempera	ature	Declared coeffient of performance or prima at indoor temperature 20°C and outdoor te			part load				
T <sub>j</sub> = -7°C	Pdh	-	kW	T <sub>j</sub> = -7°C	COPd	-	-				
T <sub>j</sub> = +2°C	Pdh	13.67	kW	$T_j = +2^{\circ}C$	COPd	2.25	-				
$T_j = +7^{\circ}C$	Pdh	8.87	kW	$T_j = +7^{\circ}C$	COPd	3.84	-				
T <sub>j</sub> = +12°C	Pdh	3.94	kW	T <sub>i</sub> = +12°C	COPd	5.88	-				
T <sub>i</sub> = bivalent temperature	Pdh	8.87	kW	T <sub>i</sub> = bivalent temperature	COPd	3.84	-				
T <sub>i</sub> = operation limit temperature	Pdh	13.67	kW	T <sub>i</sub> = operation limit temperature	COPd	2.25	-				
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	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 oth	er than acti	ve mode		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								
Standby mode	P <sub>SB</sub>	0.020	kW	Type of energy input	i	Electricity	,				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW								
Other items											
Capacity control	\	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	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,	_	_	m <sup>3</sup> /h				
Annual energy consumption	Q <sub>HE</sub>	4184	kWh	outdoor heat exchanger							
For heat pump combination heate		I	1	11	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.		<u> </u>	Road, Jiangshan Yinzhou District, Ningbo, 3		jiang, Ch					

<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>j</sub>).

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

			Ted	chnical parameters						
Model(s):	Outdoor unit: A			ACHP-H16/5R3HA-O Indoor unit: ACHP-H16	/5R3HA-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:		no								
Heat pump combination heater:		no								
Declared climate condition		Average	)							
Declared temperature application		Low								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output(*)	Prated	16.1	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	190	%			
Declared capacity for heating for part le	oad at indoo	r tempera	ture 20	Declared coeffient of performance or primary indoor temperature 20°C and outdoor tempera		o for part	load at			
T <sub>j</sub> = -7°C	Pdh	14.24	kW	$T_j = -7^{\circ}C$	COPd	3.04	-			
T <sub>j</sub> = +2°C	Pdh	8.67	kW	T <sub>j</sub> = +2°C	COPd	4.70	_			
T <sub>j</sub> = +7°C	Pdh	5.57	kW	$T_j = +7^{\circ}C$	COPd	6.62	-			
T <sub>j</sub> = +12°C	Pdh	2.48	kW	$T_j = +12$ °C	COPd	8.91	-			
T <sub>j</sub> = bivalent temperature	Pdh	14.24	kW	T <sub>j</sub> = bivalent temperature	COPd	3.04	-			
T <sub>j</sub> = operation limit temperature	Pdh	12.31	kW	T <sub>j</sub> = operation limit temperature	COPd	2.67	-			
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15^{\circ}C$ (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	r than activ	/e mode		Supplemantary heater						
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	3.79	kW			
Thermostat-off mode	P <sub>TO</sub>	0.030	kW							
Standby mode	$P_{SB}$	0.020	kW	Type of energy input		Electricity	,			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW							
Other items	1									
Capacity control	V	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m <sup>3</sup> /h			
Sound power level,		43/68	dB	For water-/brine-to-water heat pumps:Rated						
indoors/outdoors	L <sub>WA</sub>	43/00		brine or water flow rate, outdoor heat	-	-	m <sup>3</sup> /h			
Annual energy consumption	$Q_{HE}$	6892	kWh	exchanger						
For heat pump combination heater										
Declaed load profile		-		Water heating energy efficiency	$\eta_{\text{wh}}$		%			
Daily electricity consumption	Q <sub>elec</sub>	_	kWh	Daily fuel consumption	$Q_{\text{fuel}}$	-	kWh			
Contact details	AUX Co.,		North F	Road, Jiangshan Yinzhou District, Ningbo, 3151	91 Zhejian	g, China				
(*) For heat pump space heaters a	nd heat pu	mp comb	oination	heaters, the rated heat output Prated is equal	to the desi	gn load fo	or			

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

			Tech	nical parameters								
odel(s):			Dutdoor unit: ACHP-H16/5R3HA-0 Indoor unit: ACHP-H16/5R3HA-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										
Equipped with a supplementary he	ater:	no										
Heat pump combination heater:		no										
Declared climate condition		Average	)									
Declared temperature application		Medium										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	14	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	135	%					
Declared capacity for heating for part lo 20°C and outdoor temperature T <sub>j</sub>	oad at indoo	or tempera	ature	Declared coeffient of performance or prima load at indoor temperature 20°C and outdo			part					
T <sub>j</sub> = -7°C	Pdh	12.38	kW	T <sub>j</sub> = -7°C	COPd	2.06	-					
T <sub>j</sub> = +2°C	Pdh	7.54	kW	$T_j = +2^{\circ}C$	COPd	3.50	-					
T <sub>j</sub> = +7°C	Pdh	4.85	kW	$T_j = +7^{\circ}C$	COPd	4.33	-					
T <sub>i</sub> = +12°C	Pdh	2.15	kW	T <sub>i</sub> = +12°C	COPd	6.97	-					
T <sub>i</sub> = bivalent temperature	Pdh	12.38	kW	T <sub>i</sub> = bivalent temperature	COPd	2.06	_					
T <sub>i</sub> = operation limit temperature	Pdh	10.50	kW	T <sub>i</sub> = operation limit temperature	COPd	1.80	_					
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 othe	r than acti	ive mode	)	Supplemantary heater								
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	3.5	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	, yp		<b>,</b>						
Other items	· CK	0.000	KVV	l <b>l</b>								
Other items				Tor air to water heat number								
Capacity control	V	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m <sup>3</sup> /h					
Sound power level,			l ,_	For water-/brine-to-water heat								
indoors/outdoors	$L_{WA}$	43/68	dB	pumps:Rated brine or water flow rate,	_	_	m <sup>3</sup> /h					
Annual energy consumption	$Q_{HE}$	8380	kWh	outdoor heat exchanger								
For heat pump combination heater		<u> </u>										
Declaed load profile		_		Water heating energy efficiency	$\eta_{ m wh}$	_	%					
Daily electricity consumption	Q <sub>alos</sub>	_	kWh			_						
Contact details	AUX Co.,			Q <sub>elec</sub> - kWh Daily fuel consumption Q <sub>fuel</sub> - kWh  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

			Ted	chnical parameters					
Model(s):		Outdoo		ACHP-H16/5R3HA-O Indoor unit: ACHP-H16	5/5R3HA-I				
Air-to-water heat ump:		yes	- GIII.,	term interest of mader and mental interest	3/01(01)/(1				
Water-to-water heat pump:		no							
Brine-to-water heat pump:		no							
<u> </u>		no							
Equipped with a supplementary he	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	13.7	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	157	%		
Declared capacity for heating for part I 20°C and outdoor temperature T <sub>j</sub>	oad at indo	or temper	ature	ttem Symbol Value Unit  Seasonal space heating energy efficiency $\eta_s$ 157 %  Declared coeffient of performance or primary energy ratio for part load a indoor temperature $20^{\circ}\text{C}$ and outdoor temperature $T_j$ $T_j = -7^{\circ}\text{C}$ COPd 3.3.7 - $T_j = +2^{\circ}\text{C}$ COPd 4.86 - $T_j = +7^{\circ}\text{C}$ COPd 6.49 - $T_j = +12^{\circ}\text{C}$ COPd 7.40 - $T_j = \text{bivalent temperature}$ COPd 1.97 -  For air-to-water heat pumps: $T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$ )  For air-to-water heat pumps:  Operation limit temperature  COPd  For air-to-water heat pumps:  Operation limit temperature  CYCling interval efficiency  Heating water operating limit temperature  WTOL 52 °C  Supplemantary heater  Rated heat output (*) Psup 4.82 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 brine or water flow rate, outdoor heat exchanger  Water heating energy efficiency $T_{Nwh} = -$ %  Daily fuel consumption  Part 4.80 m³/h  CAluel KWh			t load at		
$T_j = -7^{\circ}C$	Pdh	8.31	kW	T <sub>j</sub> = -7°C	COPd	3.37	-		
T <sub>j</sub> = +2°C	Pdh	5.26	kW	· ·	COPd	4.86	-		
T <sub>j</sub> = +7°C	Pdh	3.62	kW	<u>'</u>	COPd	6.49	-		
T <sub>j</sub> = +12°C	Pdh	3.34	kW	$T_j = +12^{\circ}C$	COPd	7.40	-		
T <sub>j</sub> = bivalent temperature	Pdh	11.22	kW	T <sub>j</sub> = bivalent temperature	COPd	2.43	-		
T <sub>j</sub> = operation limit temperature	Pdh	8.88	kW	$T_j$ = operation limit temperature	COPd	1.97	-		
For air-to-water heat pumps: T <sub>j</sub> = -15°C (if TOL < -20°C)	Pdh	-	kW		COPd	-	-		
Bivalent temperature	T <sub>biv</sub>	-15	°C	For air-to-water heat pumps:	TOL	-22	°C		
Cycling interval capacity for heating	P <sub>cych</sub>	-	kW	·	COPcyc	-	-		
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	52	°C		
Power consumption in modes other	er than act	ive mode	9	Supplemantary heater	l				
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	4.82	kW		
Thermostat-off mode	P <sub>TO</sub>	0.030	kW						
Standby mode	P <sub>SB</sub>	0.020	kW	Type of energy input Electricity					
Crankcase heater mode	P <sub>CK</sub>	0.000	kW		Type of one gy, input				
Other items	OK			LL					
Capacity control	V	′ariable			-	4650	m³/h		
Sound power level, indoors/outdoors	L <sub>WA</sub>	-	dB	For water-/brine-to-water heat pumps:Rated	_	_	m <sup>3</sup> /h		
Annual energy consumption	Q <sub>HE</sub>	8438	kWh			-	111 /11		
For heat pump combination heater		5-00		1					
Declaed load profile	<u> </u>	_		Water heating energy efficiency	n .	_	0/2		
·			kWh			-			
Daily electricity consumption  Contact details	Q <sub>elec</sub> AUX Co., 1166 Min		<u>I</u>	Road, Jiangshan Yinzhou District, Ningbo, 3151		ng, China			
heating Pdesignh, and the rated h $\sup(T_j)$ .	nd heat peat output	ump com	nbinatio plemer	on heaters, the rated heat output Prated is equantary heater Psup is equal to the supplementary	al to the de	sign load	for		

			l ecr	nnical parameters							
Model(s):	l(s):			Outdoor unit: ACHP-H16/5R3HA-O Indoor unit: ACHP-H16/5R3HA-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:		no									
Heat pump combination heater:		no									
Declared climate condition		Colder									
Declared temperature application		Medium	١								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	11.8	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	121	%				
Declared capacity for heating for part lo 20°C and outdoor temperature T <sub>j</sub>	ad at indoo	r tempera	iture	Declared coeffient of performance or primar at indoor temperature 20°C and outdoor ten			art load				
T <sub>j</sub> = -7°C	Pdh	7.64	kW	T <sub>j</sub> = -7°C	COPd	2.65	-				
T <sub>j</sub> = +2°C	Pdh	4.42	kW	$T_j = +2^{\circ}C$	COPd	3.79	-				
T <sub>j</sub> = +7°C	Pdh	2.97	kW	$T_j = +7^{\circ}C$	COPd	4.81	-				
T <sub>j</sub> = +12°C	Pdh	3.43	kW	T <sub>j</sub> = +12°C	COPd	6.29	-				
T <sub>i</sub> = bivalent temperature	Pdh	9.61	kW	T <sub>i</sub> = bivalent temperature	COPd	1.86	_				
T <sub>i</sub> = operation limit temperature	Pdh	5.21	kW	T <sub>i</sub> = operation limit temperature	COPd	1.23	-				
For air-to-water heat pumps: Tj = -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>	-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 other	r than activ	ve mode		Supplemantary heater							
Off mode	P <sub>OFF</sub>	0.020	kW	Rated heat output (*)	Psup	6.59	kW				
Thermostat-off mode	P <sub>TO</sub>	0.030	kW								
Standby mode	P <sub>SB</sub>	0.020	kW	Type of energy input Electricity							
Crankcase heater mode	P <sub>CK</sub>	0.000	kW								
Other items	OK.			U.							
				For air-to-water heat pumps:			2				
Capacity control	<sup>v</sup>	ariable		Rated air flow rate, outdoors	-	4000	m <sup>3</sup> /h				
Sound power level,	1,	_	dB	For water-/brine-to-water heat							
indoors/outdoors	L <sub>WA</sub>		αD	pumps:Rated brine or water flow rate,	-	-	m³/h				
Annual energy consumption	$Q_{HE}$	9362	kWh	outdoor heat exchanger							
For heat pump combination heater											
Declaed load profile	<u> </u>	-		Water heating energy efficiency	$\eta_{wh}$	-	%				
Daily electricity consumption	$Q_{\rm elec}$	-	kWh	Daily fuel consumption	$Q_{\text{fuel}}$	-	kWh				
Contact details	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China										