			Т	echnical parameters								
Model(s):		Outdoo		ACHP-H12/5R3HA-O Indoor unit: ACHP-H12/	/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	10									
Declared climate condition		Warmer										
Declared temperature applicatio	n	Low										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	11.1	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	245	%					
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_{j}			Declared coeffient of performance or primary en indoor temperature 20°C and outdoor tempera	٠,	o for part	load at						
T _j = -7°C	Pdh	-	kW	$T_j = -7^{\circ}C$	COPd	-	-					
T _j = +2°C	Pdh	10.90	kW	$T_j = +2^{\circ}C$	COPd	3.59	-					
T _j = +7°C	Pdh	7.14	kW	$T_j = +7^{\circ}C$	COPd	5.87	-					
T _j = +12°C	Pdh	3.17	kW	T _j = +12°C	COPd	7.94	-					
T _j = bivalent temperature	Pdh	7.14	kW	T _j = bivalent temperature	COPd	5.87	-					
T _j = operation limit temperature	Pdh	10.90	kW	T _j = operation limit temperature	COPd	3.59	-					
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 of	her than a	ctive mo	de	Supplemantary heater								
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	0.20	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	-	4650	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}	2391	kWh	exchanger			111 /11					
For heat pump combination hea		1	1	Ш	1							
Declaed load profile		-		Water heating energy efficiency	η_{wh}	-	%					
Daily electricity consumption	Q _{alac}	_	kWh	Daily fuel consumption		-	kWh					
Contact details	Q _{elec} - kWh Daily fuel consumption Q _{fuel} - kWh 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

			Ted	chnical parameters							
Model(s):			Outdoor unit: ACHP-H12/5R3HA-O Indoor unit: ACHP-H12/5R3HA-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	no								
Heat pump combination heater:		no	no								
Declared climate condition		Warmer									
Declared temperature application	•	Medium			1						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	12.5	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	171	%				
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j				Declared coeffient of performance or primary indoor temperature 20°C and outdoor temper	٠.	tio for pa	rt load				
T _j = -7°C	Pdh	-	kW	T _j = -7°C	COPd	-	-				
T _j = +2°C	Pdh	12.30	kW	T _j = +2°C	COPd	2.31	-				
T _j = +7°C	Pdh	8.04	kW	$T_j = +7^{\circ}C$	COPd	3.86	-				
T _j = +12°C	Pdh	3.57	kW	T _j = +12°C	COPd	5.70	-				
T _j = bivalent temperature	Pdh	8.04	kW	T _j = bivalent temperature	COPd	3.86	-				
T _j = operation limit temperature	Pdh	12.30	kW	T _j = operation limit temperature	COPd	2.31	-				
For air-to-water heat pumps: T _j = -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 oth	er than ac	tive mod	е	Supplemantary heater		<u> </u>					
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	0.20	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											
Capacity control	\ \	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /ł				
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_	_	m³/ŀ				
Annual energy consumption	Q_{HE}	3831	kWh	exchanger			/1				
For heat pump combination heate		l]	U .	1	<u> </u>					
Declaed load profile		_		Water heating energy efficiency	η_{wh}	_	%				
Daily electricity consumption	Q _{elec}	_	kWh	Daily fuel consumption	Q _{fuel}	_	kWł				
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

			Te	chnical parameters								
Model(s):	l(s): Outdoor ι			unit: ACHP-H12/5R3HA-O Indoor unit: ACHP-H12/5R3HA-I								
		yes										
		no										
		no										
		no										
		no										
		no										
		Average	,									
Declared temperature application			-									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	12.2	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	190	%					
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j				Declared coeffient of performance or primary indoor temperature 20°C and outdoor 20°C and 00°C	٠,	tio for pa	rt load at					
T _j = -7°C	Pdh	10.79	kW	$T_j = -7$ °C	COPd	3.02	-					
$T_j = +2^{\circ}C$	Pdh	6.57	kW	$T_j = +2^{\circ}C$	COPd	4.83	-					
T _j = +7°C	Pdh	4.22	kW	T _j = +7°C	COPd	6.27	-					
T _j = +12°C	Pdh	1.88	kW	T _j = +12°C	COPd	9.38	-					
T _j = bivalent temperature	Pdh	10.79	kW	T _j = bivalent temperature	COPd	3.02	-					
T _i = operation limit temperature	Pdh	10.1	kW	T _i = operation limit temperature	COPd	2.61	-					
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 oth	ner than a	ctive mod	de	Supplemantary heater								
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	2.10	kW					
Thermostat-off mode	P _{TO}	0.030	kW									
Standby mode	P _{SB}	0.020	kW	Type of energy input	l i	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	-	4650	m ³ /h					
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_	_	m ³ /h					
Annual energy consumption	Q _{HE}	5230	kWh	exchanger			111 /11					
For heat pump combination heat				· · · · · · · · · · · · · · · · · · ·								
Declaed load profile		_		Water heating energy efficiency	$\eta_{ m wh}$	_	%					
Daily electricity consumption	Q.,	l _	kWh	Daily fuel consumption	Q _{fuel}	_	kWh					
Daily Gloculotty Collouilipticit	Q _{elec}		KVVII	Daily luci consumption	≺fuel	-	VAAII					
Contact details	AUX Co. 1166 Min		North F	Road, Jiangshan Yinzhou District, Ningbo, 3151	I91 Zhejiai	ng, China	1					
` ' '		•		ion heaters, the rated heat output Prated is equentary heater Psup is equal to the supplementa		•						

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load fo 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

			Te	chnical parameters							
Model(s):		Outdoo	r unit: A	ACHP-H12/5R3HA-O Indoor unit: ACHP-H1	2/5R3HA-						
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									
		no									
Declared climate condition		Average	;								
Declared temperature application	Medium										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	12	kW	Seasonal space heating energy efficiency	η_{s}	136	%				
Declared capacity for heating for part load at indoor ter 20°C and outdoor temperature T_{j}			erature	Declared coeffient of performance or primary at indoor temperature 20°C and outdoor 20°C and outdoo	٠.	•	art load				
T _j = -7°C	Pdh	10.62	kW	T _j = -7°C	COPd	2.11	-				
T _j = +2°C	Pdh	6.46	kW	T _i = +2°C	COPd	3.43	-				
$T_{j} = +7^{\circ}C$	Pdh	4.15	kW	T _i = +7°C	COPd	4.59					
$T_{j} = +12^{\circ}C$	Pdh	1.85	kW	T _i = +12°C	COPd	6.90					
				•							
T _j = bivalent temperature	Pdh	10.62	kW	T _j = bivalent temperature	COPd	2.11	-				
T _j = operation limit temperature	Pdh	9.16	kW	T _j = operation limit temperature	COPd	2.68	-				
For air-to-water heat pumps: T _j = -15°C (if TOL < -20°C)	Pdh	1	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 otl	ner than a	ctive mo	de	Supplemantary heater	l						
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	2.84	kW				
Thermostat-off mode	P _{TO}	0.030	kW			<u>.</u>					
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	-	4650	m ³ /h				
Sound power level, indoors/outdoors	L _{WA}	43/64	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	-	_	m ³ /h				
Annual energy consumption	Q_{HE}	7131	kWh	exchanger			///				
For heat pump combination heat			1								
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.			Road, Jiangshan Yinzhou District, Ningbo, 315							
heating Pdesignh, and the rated $\sup(T_j)$.	heat outp	ut of a su	ıppleme	ion heaters, the rated heat output Prated is eq entary heater Psup is equal to the supplementa ault degradation coefficient is Cdh = 0.9							

			Techr	nical parameters								
Model(s):			Outdoor unit: ACHP-H12/5R3HA-O Indoor unit: ACHP-H12/5R3HA-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	Colder									
Declared temperature application												
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	11.4	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	159	%					
Declared capacity for heating for part load at indoor t °C and outdoor temperature T _j			ire 20	Declared coeffient of performance or prima at indoor temperature 20°C and outdoor te			part loac					
$T_j = -7^{\circ}C$	Pdh	7.05	kW	$T_j = -7^{\circ}C$	COPd	3.48						
T _j = +2°C	Pdh	4.67	kW	$T_i = +2^{\circ}C$	COPd	4.96	-					
$T_j = +7^{\circ}C$	Pdh	3.14	kW	$T_i = +7^{\circ}C$	COPd	6.10	_					
T _j = +12°C	Pdh	3.57	kW	T _i = +12°C	COPd	7.87	-					
T _i = bivalent temperature	Pdh	9.28	kW	T _i = bivalent temperature	COPd	2.59	-					
T _i = operation limit temperature	Pdh	7.01	kW	T _i = operation limit temperature	COPd	1.98	_					
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}	-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 other the	han active	mode		Supplemantary heater								
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	4.39	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	<u> </u>			J.	<u>l</u>							
Capacity control	V	′ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h					
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate,	_		m ³ /h					
Annual energy consumption	Q _{HE}	6926	kWh	outdoor heat exchanger		-	111 /[]					
For heat pump combination heater				· ·	1							
Declaed load profile		-		Water heating energy efficiency	η_{wh}	_	%					
Daily electricity consumption	Q _{elec}	_	kWh	Daily fuel consumption		_	kWh					
Contact details	Q _{elec} - kWh Daily fuel consumption Q _{fuel} - k AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China											
	output of	a supple	ementa	heaters, the rated heat output Prated is equally heater Psup is equal to the supplementary degradation coefficient is Cdh =0.9		•						

			Techr	nical parameters									
Model(s):			Outdoor unit: ACHP-H12/5R3HA-O Indoor unit: ACHP-H12/5R3HA-I										
Air-to-water heat ump:		yes											
Water-to-water heat pump:		no											
Brine-to-water heat pump:		no											
Low-temperature heat pump:		no											
1 11 ,		no											
' '		no											
		Colder											
Declared temperature application	Medium		1.	T									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit						
Rated heat output(*)	Prated	10.3	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	117	%						
Declared capacity for heating for part load and outdoor temperature $\mathbf{T}_{\mathbf{j}}$	at indoor te	emperatur	e 20°C	Declared coeffient of performance or prima at indoor temperature 20°C and outdoor ter			art load						
T _j = -7°C	Pdh	6.63	kW	T _j = -7°C	COPd	2.63	-						
T _j = +2°C	Pdh	4.06	kW	$T_j = +2^{\circ}C$	COPd	3.60	-						
T _j = +7°C	Pdh	2.78	kW	$T_j = +7^{\circ}C$	COPd	4.54	-						
T _j = +12°C	Pdh	3.33	kW	T _j = +12°C	COPd	6.25	-						
T _j = bivalent temperature	Pdh	8.41	kW	T _j = bivalent temperature	COPd	1.84	-						
T _j = operation limit temperature	Pdh	4.19	kW	T _j = operation limit temperature	COPd	1.13	-						
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	ů						
Power consumption in modes other th	an active	mode		Supplemantary heater									
Off mode	P _{OFF}	0.020	kW	Rated heat output (*)	Psup	6.11	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,	_	_	m ³ /h						
Annual energy consumption	Q_{HE}	8453	kWh	outdoor heat exchanger			,						
For heat pump combination heater													
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, 31		iang, Chi	na						

^(*) 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