		44	Tecl	nnical parameters							
Model (s):	ACHP-H08/4R3HA-M (NE)										
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		Warmer	r								
Declared temperature application			ě		M.						
(tem	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output(*)	Prated	8.1	kW	Seasonal space heating energy efficiency	ηs	173	%				
Declared capacity for heating for part load and outdoor temperature Tj	l at indoor 1	temperatu	re 20°C	Declared coeffient of performance or primary indoor temperature 20°C and outdoor and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and 00°C		atio for pa	art load				
Гj = -7°С	Pdh	-	kW	Tj = -7°C	COPd	-	-				
$\Gamma j = +2^{\circ}C$	Pdh	8.10	kW	$Tj = +2^{\circ}C$	COPd	2.62	-				
Γj = +7°C	Pdh	5.21	kW	$Tj = +7^{\circ}C$	COPd	3.78	-				
Γj = +12°C	Pdh	2.31	kW	Tj = +12°C	COPd	5.55	-				
Γj = bivalent temperature	Pdh	5.21	kW	Tj = bivalent temperature	COPd	3.78	-				
Γj = operation limit temperature	Pdh	8.10	kW	Tj = operation limit temperature	COPd	2.62	-				
For air-to-water heat pumps: Fi = -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	СОРсус	-	-				
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C				
Power consumption in modes other t	han active	e mode		Supplemantary heater	lit	l) il					
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	0.3	kW				
Thermostat-off mode	Рто	0.030	kW								
Standby mode	Psb	0.020	kW	Type of energy input] 1	Electricity	у				
Crankcase heater mode	PCK	0.000	kW								
Other items	-			ž.	4 0						
Capacity control	\	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m ³ /h				
Sound power level	Lwa	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_		m ³ /h				
Annual energy consumption	QHE	2460	kWh	exchanger							
For heat pump combination heater				t.							
Declaed load profile		-		Water heating energy efficiency	Hwh	_	%				
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfuel	-	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 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

			Tech	nical parameters									
Model(s):		ACHP-		R3HA-M (NE)									
				yes									
Water-to-water heat pump:		no											
Brine-to-water heat pump:			no										
Low-temperature heat pump:			no										
			no										
Heat pump combination heater:													
		Warme											
Declared temperature application		Mediun	n I										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit						
Rated heat output(*)	Prated	7.6	kW	Seasonal space heating energy efficiency	ηs	173	%						
Declared capacity for heating for part load and outdoor temperature Tj	at indoor t	emperatu	re 20 °C	O °C Declared coefficient of performance or primary energy ratio for part indoor temperature 20°C and outdoor temperature Tj									
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-						
Tj = +2°C	Pdh	7.30		1	COPd	2.59	-						
Tj = +7°C	Pdh	4.89	kW	Tj = +7°C	COPd	3.90	-						
Tj = +12°C	Pdh	2.17	kW	Tj = +12°C	COPd	5.55	-						
Tj = bivalent temperature	Pdh	4.89	kW	Tj = bivalent temperature	COPd	3.92	-						
Tj = operation limit temperature	Pdh	7.30	kW	Tj = operation limit temperature	COPd	2.59	_						
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	-		WTOL	60	°C						
Power consumption in modes other th	an active	mode		Supplemantary heater		1							
Off mode	P off	0.020	kW	Rated heat output (*)	Psup	0.0	kW						
Thermostat-off mode	PTO	0.030	kW			· · · · · ·							
Standby mode	P SB	0.020	kW	Type of energy input	E	Electricity	7						
Crankcase heater mode	PcK	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	LWA	-	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat	-	-	m ³ /h						
Annual energy consumption	QHE	2304	kWh	exchanger									
For heat pump combination heater		•	•	•									
Declaed load profile		-		Water heating energy efficiency	Qwh	-	%						
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfbel	-	kWh						
Contact details	AUX Co 1166 Mii	., Ltd		Road, Jiangshan Yinzhou District, Ningbo, 3	15191 Zhe	ejiang, Cl							

^(*) 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

				cal parameters								
Model(s):	ACHP H08/4R3HA M (NE)											
Air-to-water heat ump:			yes									
Water-to-water heat pump:			no									
Brine-to-water heat pump:			no									
			no									
Equipped with a supplementary heater:			no									
Heat pump combination heater:		no										
Declared climate condition Declared temperature application			Average									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	8.1	kW	Seasonal space heating energy efficiency	ηs	205	%					
Declared capacity for heating for part load and outdoor temperature Tj	at indoor te	mperature	e 20°C	Declared coeffient of performance or prin load at indoor temperature 20°C and outd	•		-					
$Tj = -7^{\circ}C$	Pdh	7.18	kW	Tj = -7°C	COPd	3.30	-					
$\Gamma j = +2^{\circ}C$	Pdh	4.36	kW	Tj = +2°C	COPd	5.09						
$Tj = +7^{\circ}C$	Pdh	2.80	kW	$Tj = +7^{\circ}C$	COPd	6.82	-					
Tj = +12°C	Pdh	1.25	kW	$Tj = +12^{\circ}C$	COPd	8.35	-					
Γj = bivalent temperature	Pdh	7.18	kW	Tj = bivalent temperature	COPd	3.30	-					
$\Gamma j = \text{operation limit temperature}$	Pdh	6.44	kW	Tj = operation limit temperature	COPd	3.04	-					
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	-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 other that	an active n	node	•	Supplemantary heater								
Off mode	Poff	0.020	kW	Rated heat output (*)	Psup	1.66	kW					
Thermostat-off mode	P TQ	0.030	kW	2								
Standby mode	PSB	0.020	kW	Type of energy input]	Electricity	y					
Crankcase heater mode	PcK	0.000	kW									
Other items												
Capacity control	1	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m ³ /h					
Sound power level	LWA	-	dB	For wate r-/bri n e-to-water heat pumps:Rated brine or water flow rate,			m ³ /h					
Annual energy consumption	Qне	3216	kWh	outdoor heat exchanger	_	=	m ⁻ /h					
For heat pump combination heater		· ·			1	1						
Declaed load profile		-		Water heating energy efficiency	Owh	-	%					
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh					
Contact details	AUX Co 1166 Mir		North :	Road, Jiangshan Yinzhou District, Ningbo	o, 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

			Tec	hnical parameters			
Model(s):		ACHP-		R3HA-M (NE)			
Air-to-water heat ump:		yes					
Water-to-water heat pump:		no					
Brine-to-water heat pump:		no					
Low-temperature heat pump:	perature heat pump: no						
Equipped with a supplementary heater: no							
Heat pump combination heater: no							
Declared climate condition Average							
Declared temperature application	1	Mediun	1				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output(*)	Prated	6.6	kW	Seasonal space heating energy efficiency	ηs	132	%
Declared capacity for heating for part le 20°C and outdoor temperature Tj	art load at indoor temperature			Declared coefficient of performance or primary indoor temperature 20°C and outdoor temperature 20°C.		atio for p	art load a
Tj = -7°C	Pdh	5.84	kW	Tj = -7°C	COPd	2.30	-
Tj = +2°C	Pdh	3.55	kW	Tj = +2°C	COPd	3.30	-
$Tj = +7^{\circ}C$	Pdh	2.28		$Tj = +7^{\circ}C$	COPd	4.28	-
Tj = +12°C	Pdh	1.02	kW	Tj = +12°C	COPd	5.33	-
Tj = bivalent temperature	Pdh	5.84	kW	Tj = bivalent temperature	COPd	2.16	-
Tj = operation limit temperature	Pdh	4.90	kW	Tj = operation limit temperature	COPd	1.84	ı
For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps: $T_i = -15$ °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 heating	Pcych	-	kW	Cycling interval efficiency	СОРсус	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other	r than acti	ve mode		Supplemantary heater			
Off mode	P OFF	0.020	kW	Rated heat output (*)	Psup	1.7	kW
Thermostat-off mode	Рто	0.030	kW				
Standby mode	P SB	0.020	kW	Type of energy input]	Electricity	ý
Crankcase heater mode	PcK	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	Lwa	59	dB	For water-/bri ne-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_	_	m ³ /h
Annual energy consumption	QHE	4015	kWh	exchanger			/11
For heat pump combination heater							
Declaed load profile		-		Water heating energy efficiency	Owh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details	AUX Co 1166 Mir		North	Road, Jiangshan Yinzhou District, Ningbo, 3	15191 Zhe	ejiang, Cl	nina

^(*) 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

			Tec	hnical parameters			
Model(s):		ACHP-H08/4R3HA-M (NE)					
Air-to-water heat ump:		yes					
Water-to-water heat pump:		no					
Brine-to-water heat pump:	heat pump: no						
Low-temperature heat pump: no							
Equipped with a supplementary he	ater:	no					
Heat pump combination heater: no							
Declared climate condition Colder							
Declared temperature application	1	Low	Т		1	1	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output(*)	Prated	7.0	kW	Seasonal space heating energy efficiency	ηs	168	%
Declared capacity for heating for part l 20°C and outdoor temperature Tj	oad at indo	or temper	ature	Declared coefficient of performance or primary indoor temperature 20°C and outdoor temperature 20°C.		atio for pa	rt load
Tj = -7°C	Pdh	4.46	kW	Tj = -7°C	COPd	3.66	-
Tj = +2°C	Pdh	2.69	kW	Tj = +2°C	COPd	5.20	-
$Tj = +7^{\circ}C$	Pdh	1.65	kW	$Tj = +7^{\circ}C$	COPd	6.53	-
$Tj = +12^{\circ}C$	Pdh	1.65	kW	Tj = +12°C	COPd	7.96	-
Tj = bivalent temperature	Pdh	5.69	kW	Tj = bivalent temperature	COPd	2.83	-
Ti = operation limit temperature	Pdh	4.06	kW	Tj = operation limit temperature	COPd	1.95	_
For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat numps:	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	СОРсус	-	-
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 OFF	0.020	kW	Rated heat output (*)	Psup	2.94	kW
Thermostat-off mode	Рто	0.030	kW				
Standby mode	P SB	0.020	kW	Type of energy input	1	Electricity	
Crankcase heater mode	PcK	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	LWA	-	dB	For water-/bri ne-to-water heat pumps:Rated brine or water flow rate, outdoor heat	_		m ³ /h
Annual energy consumption	QHE	4036	kWh	exchanger			111 /11
For heat pump combination heater		1		1	1		
Declaed load profile		_		Water heating energy efficiency	Owh	_ [%
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfuel	_	kWh
Contact details	AUX Co		I	Road, Jiangshan Yinzhou District, Ningbo, 3		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

			Tec	hnical parameters				
Model(s):		ACHP-		R3HA-M (NE)				
Air-to-water heat ump:	np: yes							
Water-to-water heat pump:	er-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								
Declared temperature application		Mediun	n	1		1		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output(*)	Prated	5.8	kW	Seasonal space heating energy efficiency	ηs	111	%	
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj			Seasonal space heating energy efficiency Declared coefficient of performance or primary energy ratio for part load a indoor temperature 20°C and outdoor temperature Tj Tj = -7°C COPd 2.48 - Tj = +2°C COPd 3.35 - Tj = +7°C COPd 4.11 - Tj = +12°C COPd 5.92 - Tj = bivalent temperature COPd Tj = operation limit temperature COPd Tj = operation limit temperature COPd Tj = -15°C(ifTOL<-20°C) For air-to-water heat pumps: Operation limit temperature TOL CCPC COPd -					
Tj = -7°C	Pdh	3.86	kW	Tj = -7°C	COPd	2.48	-	
Tj = +2°C	Pdh	2.21	kW	Tj = +2°C	COPd	3.35	-	
Tj = +7°C	Pdh	1.44	 	$Tj = +7^{\circ}C$	COPd	4.11	-	
Tj = +12°C	Pdh	1.47	kW	Tj = +12°C	COPd	5.92	-	
Tj = bivalent temperature	Pdh	4.71	kW	Tj = bivalent temperature	COPd	1.90	_	
$T_i = $ operation limit temperature	Pdh	2.80	kW		COPd	1.22	_	
For air-to-water heat pumps: Γj = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps:		-	-	
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit	TOL	-22	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	СОРсус	-	-	
Degradation co-efficient(**)	Cdh	0.9	_	Heating water operating limit temperature	WTOL	52	°C	
Power consumption in modes other		ve mode	;	Supplemantary heater				
Off mode	P OFF	0.020	kW	Rated heat output (*)	Psup	3.0	kW	
Thermostat-off mode	Рто	0.030	kW					
Standby mode	P SB	0.020	kW	Type of energy input	I	Electricity		
Crankcase heater mode	PcK	0.000	kW					
Other items	•	•	•	-				
Capacity control	V	ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m ³ /l	
Sound power level	LWA	-	dB	For water-/bri ne-to-water heat pumps:Rated brine or water flow rate, outdoor heat	-	_	m ³ /h	
Annual energy consumption	QHE	5014	kWh	exchanger			-11 /1	
For heat pump combination heater				•				
Declaed load profile		-		Water heating energy efficiency	Owh	_	%	
Daily electricity consumption	Qelec	l -	kWh	Daily fuel consumption	Qfuel	-	kWł	
Contact details	AUX Co	., Ltd	I	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