		79	<u>Tecl</u>	nnical parameters								
Model (s):		АСНР-	H08/4I	РЗНА-МЕ								
Air-to-water heat ump:	yes											
Water-to-water heat pump:			no									
Brine-to-water heat pump:		no										
Low-temperature heat pump:												
Equipped with a supplementary heater:												
Heat pump combination heater:		no Warme										
Declared climate condition			r									
Declared temperature application		Low		î	r							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output(*)	Prated	8.1	kW	Seasonal space heating energy efficiency	ηѕ	173	%					
Declared capacity for heating for part load and outdoor temperature Tj	d at indoor	temperatu	re 20°C	Declared coefficient of performance or primary indoor temperature 20°C and outdoor temper		ratio for pa	art load					
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	- 1	-					
Tj = +2°C	Pdh	8.10	kW	$T_i = +2^{\circ}C$	COPd	2.62	-					
$\Gamma j = +7^{\circ}C$	Pdh	5.21	kW	$Tj = +7^{\circ}C$	COPd	3.78	_					
Γj = +12°C	Pdh	2.31	kW	$T_j = +12$ °C	COPd	5.55	_					
Γ j = bivalent temperature	Pdh	5.21	kW	Tj = bivalent temperature	COPd	3.78	_					
Γ_i = operation limit temperature	Pdh	8.10	kW	Tj = operation limit temperature	COPd	2.62	_					
For air-to-water heat pumps:		6.10		For air-to-water heat pumps:		2.02						
$T_j = -15$ °C(ifTOL<-20°C)	Pdh	-	kW	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 activ	e mode		Supplemantary heater	Is	4 1						
Off mode	POFF	0.020	kW	Rated heat output (*)	Psup	0.3	kW					
Thermostat-off mode		0.030	kW	Active Active Company ()	15	10.0	25.11					
	Рто		-	Type of energy input		Electricity	I					
Standby mode	PSB	0.020	kW	1 JPO OI OHOIGY INPUT		Licentelly						
Crankcase heater mode	РСК	0.000	kW		10.7							
Other items	1					, ,						
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	2460	kWh	exchanger								
For heat pump combination heater												
Declaed load profile		-		Water heating energy efficiency	Hwh	-	%					
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	- 1	kWh					
Contact details	AUX Co., Ltd 1166 Mingguang North Road, Jiangshan Yinzhou District, Ningbo, 315191 Zhejiang, China											

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-H08/4												
Air-to-water heat ump:			yes										
			no										
			no										
			no										
_ , , , , , ,			no										
4			no										
		Warme											
Declared temperature application	Mediun	n											
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	Declared coeffient of performance or primary energy ratio for part load a indoor temperature 20°C and outdoor temperature Tj $Tj = -7^{\circ}C \qquad COPd \qquad - \qquad - \qquad COPd \qquad - \qquad - \qquad Tj = +2^{\circ}C \qquad COPd \qquad 3.90 \qquad - \qquad Tj = +12^{\circ}C \qquad COPd \qquad 5.55 \qquad - \qquad Tj = bivalent temperature \qquad COPd \qquad 3.92 \qquad - \qquad Tj = operation limit temperature \qquad COPd \qquad 2.59 \qquad - \qquad For air-to-water heat pumps: Tj = -15^{\circ}C \qquad COPd \qquad - \qquad $									
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	_						
Tj = +2°C	Pdh	7.30	kW	Tj = +2°C	COPd	2.59	-						
Tj = +7°C	Pdh	4.89	kW	$Tj = +7^{\circ}C$	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		COPd	2.59	-						
For air-to-water heat pumps: Tj = -15°C (ifTOL<-20°C)	Pdh	-	kW		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	-	Heating water operating limit temperature	WTOL	60	°C						
Power consumption in modes other th	nan active	mode		Supplemantary heater		·							
Off mode	P off	0.020	kW	Rated heat output (*)	Psup	0.0	kW						
Thermostat-off mode	PTO PTO	0.030	kW										
Standby mode	P SB	0.020	kW	Type of energy input	E	Electricity	ī						
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	Оне	2304	kWh	exchanger									
For heat pump combination heater		•		1									
Declaed load profile		-		Water heating energy efficiency	Qwh	_	%						
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfbel	_	kWh						
Contact details	AUX Co	., Ltd		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

			<u> Fechni</u>	cal parameters									
Model(s):		ACHP-H08/4R3HA-ME											
Air-to-water heat ump:			yes										
Water-to-water heat pump:		no											
Brine-to-water heat pump:		no											
Low-temperature heat pump:													
Equipped with a supplementary heater	:	no											
			10										
Declared climate condition			verage										
Declared temperature application	Declared temperature application			ow									
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 coefficient of performance or prin load at indoor temperature 20°C and outd									
Tj = -7°C	Pdh	7.18	kW	Tj = -7°C	COPd	3.30	-						
$Tj = +2^{\circ}C$	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	-						
$Tj = +12^{\circ}C$	Pdh	1.25	kW	Tj = +12°C	COPd	8.35	-						
Tj = bivalent temperature	Pdh	7.18	kW	Tj = bivalent temperature	COPd	3.30	-						
Tj = 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	-		•							
Standby mode	PSB	0.020	kW	Type of energy input]	Electricity	y						
Crankcase heater mode	PcK	0.000	kW										
Other items													
Capacity control	\	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			3						
Annual energy consumption	QHE	3216	kWh	pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h						
For heat pump combination heater		1											
Declaed load profile		-		Water heating energy efficiency	Owh	-	%						
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfuel	-	kWh						
Contact details			North	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(Tj).

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

			Tec	hnical parameters			
Model(s):		ACHP-		R3HA-ME			
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	1	Mediun	n T	T	ī	ı	
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 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 andoor temperature 20°C and outdoor temperature Tj Declared coefficient of performance or primary energy ratio for part load andoor temperature 20°C and outdoor temperature Tj Declared coefficient of performance or primary energy ratio for part load and outdoor temperature Tj Declared coefficient of performance or primary energy ratio for part load and outdoor temperature Tj Declared coefficiency COPd Declared coefficient of performance or primary energy ratio for part load and outdoor temperature Tj Declared coefficient TOPd Declared coefficient of performance or primary energy ratio for part load and outdoor temperature Tj Declared coefficient TOPd Declared coefficient of COPd De				
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	kW	$Tj = +7^{\circ}C$	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	-
T_j = operation limit temperature	Pdh	4.90	kW		COPd	1.84	-
For air-to-water heat pumps: Tj = -15°C(ifTOL<-20°C)	Pdh	-	kW	For air-to-water heat pumps:			-
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 othe	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] 1	Electricity	У
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			111 / 11
For heat pump combination heater		1.010	r- / · * *	1	I	I	<u> </u>
Declaed load profile		_		Water heating energy efficiency	Owh	_	%
Daily electricity consumption	Qelec	_	kWh	Daily fuel consumption	Qfuel	_	kWh
Contact details	AUX Co			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

			Tec	hnical parameters			
Model(s):		ACHP-H08/4R3HA-ME					
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		Low			Т		
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 load at indoor temperature 20°C and outdoor temperature Tj			Geasonal space heating energy efficiency Declared coefficient of performance or primary energy ratio for part load and outdoor temperature 20°C and outdoor temperature Tj Tig = -7°C COPd 3.66 - Cig = +7°C COPd 5.20 - Cig = +7°C COPd 6.53 - Cig = +12°C COPd 7.96 - Cig = bivalent temperature COPd 2.83 - Cig = operation limit temperature COPd 1.95 - Cor air-to-water heat pumps: Cig = -15°C(ifTOL<-20°C) Cor air-to-water heat pumps: Operation limit temperature Copd Copd - Copd				
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	-	$Tj = +7^{\circ}C$	COPd	6.53	-
Tj = +12°C	Pdh	1.65	kW	Tj = +12°C	COPd	7.96	-
Tj = bivalent temperature	Pdh	5.69	kW	Tj = bivalent temperature	COPd	2.83	-
Tj = operation limit temperature	Pdh	4.06	kW	Ti = 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 pumps:		-	-
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 other		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	\	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		
Declaed load profile		_		Water heating energy efficiency	Owh	_	%
Daily electricity consumption	Qelec	l -	kWh	Daily fuel consumption	Qfuel	_	kWh
Contact details	AUX Co		•	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-ME				
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 pump combination heater:							
Declared climate condition		Colder						
Declared temperature application		Mediun	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 η_{S} 111 % Declared coefficient of performance or primary energy ratio for part load a indoor temperature 20°C and outdoor temperature Tj $Tj = -7^{\circ}C$ $COPd$ 2.48 - $Tj = +2^{\circ}C$ $COPd$ 3.35 - $Tj = +7^{\circ}C$ $COPd$ 4.11 - $Tj = +12^{\circ}C$ $COPd$ 5.92 - $Tj = bivalent temperature$ $COPd$ 1.90 - $Tj = operation limit temperature$ $COPd$ 1.22 -					
Tj = -7°C	Pdh	3.86	kW	Tj = -7°C	COPd	2.48	-	
Tj = +2°C	Pdh	2.21		$Tj = +2^{\circ}C$	COPd	3.35	-	
$Tj = +7^{\circ}C$	Pdh	1.44	-	$Tj = +7^{\circ}C$	COPd	4.11	-	
$Tj = +12^{\circ}C$	Pdh	1.47		Tj = +12°C	COPd	5.92	-	
Tj = bivalent temperature	Pdh	4.71	kW	-	COPd	1.90	_	
$T_j = $ operation limit temperature	Pdh	2.80	kW	-	COPd	1.22	_	
For air-to-water heat pumps: Tj = -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	r than acti	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	1				l			
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	_	_	m³/h	
Annual energy consumption	QHE	5014	kWh	exchanger			111 /11	
For heat pump combination heater	1 4	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., 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(Tj).

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