AUX

TECHNICAL DATA MANUAL
FOR R290 A-THERMAL ALL IN ONE ATW HEAT PUMP UNIT

- For your convenience, please read this statement carefully, in accordance with the specification steps.
- Please safely keeping this manual to inspection.

Qutdoor unit	Indoor unit	Temperature type	Energy efficiency class	Qutdoor unit sound power	Indoor unit sound power	Warmer climate			Average climate			Colder climate			Average climate		
						Rated heat output	Seasonal space heating energy efficiency	Annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	Annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	Annual energy consumption	Declaed load profile	Water heating energy efficiency	Annual electricity consumption
			-	dB	dB	kW	%	kWh	kW	%	kWh	kW	%	kWh	/	%	kWh
ACHHC-H12A4/ASR2DI	AHS-R24/C9D3A-19	Low	A+++	56	41	5.5	252	1151	5.5	195	2295	4.6	157	2833	L	119.2	860
		Medium	A+++	56	41	5	161	1627	5.5	151	2950	3.4	101	3233			
ACHHC-H24A4/ASR2DI	AHS-R24/C9D3A-19	Low	A+++	56	41	6.1	256	1258	6.8	196	2818	5.6	164	3314	L	119.2	860
		Medium	A+++	56	41	5.1	162	1652	6.3	151	3381	4.3	111	3760			
ACHHC-H30A4/ASR2DI	AHS-R24/C9D3A-19	Low	A+++	57	41	8.1	272	1573	8.1	198	3246	7	168	4036	L	118	869
		Medium	A+++	57	41	7.6	173	2304	6.6	152	3510	5.8	111	5014			
ACHHC-H36A4/ASR2DI	AHS-R24/C9D3A-19	Low	A+++	57	41	8.6	267	1701	9.2	203	3690	7.7	168	4036	L	118	869
		Medium	A+++	57	41	8.6	177	2545	7.7	152	4105	6.7	116	5574			
ACHHC-H42A4/ASR2DI	AHS-R24/C9D3A-19	Low	A+++	58	41	11.3	254	2350	13.2	188	5712	11.4	159	6926	L	115.2	890
		Medium	A+++	58	41	12.5	174	3775	12	150	6481	10.3	117	8453			
ACHHC-H48A4/ASR2DI	AHS-R24/C9D3A-19	Low	A+++	59	41	12.1	259	2464	14.5	188	6275	12.6	159	7685	L	115.2	890
		Medium	A+++	59	41	13.7	178	4037	13	150	7020	11	118	8937			
ACHHC-H60A4/ASR2DI	AHS-R24/C9D3A-19	Low	A+++	60	41	13.1	246	2811	15	188	6492	13.7	157	8438	L	115.2	890
		Medium	A+++	60	41	13.8	176	4118	13	150	7020	11.8	121	9362			

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H12A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5.5	kW	**Seasonal space heating energy efficiency**	η_s	252	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	5.37	kW	T_j = +2°C	COPd	3.94	-
T_j = +7°C	Pdh	3.54	kW	T_j = +7°C	COPd	5.82	-
T_j = +12°C	Pdh	1.57	kW	T_j = +12°C	COPd	7.91	-
T_j = bivalent temperature	Pdh	3.54	kW	T_j = bivalent temperature	COPd	5.82	-
T_j = operation limit temperature	Pdh	5.37	kW	T_j = operation limit temperature	COPd	3.94	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.13	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	1151	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H12A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5.0	kW	**Seasonal space heating energy efficiency**	η_s	161	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	4.87	kW	T_j = +2°C	COPd	2.51	-
T_j = +7°C	Pdh	3.21	kW	T_j = +7°C	COPd	3.62	-
T_j = +12°C	Pdh	1.43	kW	T_j = +12°C	COPd	5.35	-
T_j = bivalent temperature	Pdh	3.21	kW	T_j = bivalent temperature	COPd	3.62	-
T_j = operation limit temperature	Pdh	4.87	kW	T_j = operation limit temperature	COPd	2.51	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.13	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	1627	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC		GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H12A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		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**	η_s	195	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	4.87	kW	T_j = -7°C	COPd	2.96	-
T_j = +2°C	Pdh	2.90	kW	T_j = +2°C	COPd	4.84	-
T_j = +7°C	Pdh	1.90	kW	T_j = +7°C	COPd	6.46	-
T_j = +12°C	Pdh	2.02	kW	T_j = +12°C	COPd	11.71	-
T_j = bivalent temperature	Pdh	4.87	kW	T_j = bivalent temperature	COPd	2.96	-
T_j = operation limit temperature	Pdh	4.34	kW	T_j = operation limit temperature	COPd	2.86	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.16	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2295	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	119.2	%
Daily electricity consumption	Q_{elec}	3.911	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	860	kWh	Annual fuel consumption	AFC		GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H12A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5.5	kW	**Seasonal space heating energy efficiency**	η_s	151	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	4.87	kW	T_j = -7°C	COPd	2.40	-
T_j = +2°C	Pdh	2.96	kW	T_j = +2°C	COPd	3.75	-
T_j = +7°C	Pdh	1.90	kW	T_j = +7°C	COPd	5.26	-
T_j = +12°C	Pdh	2.16	kW	T_j = +12°C	COPd	7.91	-
T_j = bivalent temperature	Pdh	4.87	kW	T_j = bivalent temperature	COPd	2.40	-
T_j = operation limit temperature	Pdh	5.50	kW	T_j = operation limit temperature	COPd	2.06	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.00	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41/56	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2950	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	119.2	%
Daily electricity consumption	Q_{elec}	3.911	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	860	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H12A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
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**	η_s	157	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	2.75	kW	T_j = -7°C	COPd	3.50	-
T_j = +2°C	Pdh	1.77	kW	T_j = +2°C	COPd	4.95	-
T_j = +7°C	Pdh	1.17	kW	T_j = +7°C	COPd	5.53	-
T_j = +12°C	Pdh	1.43	kW	T_j = +12°C	COPd	7.67	-
T_j = bivalent temperature	Pdh	3.72	kW	T_j = bivalent temperature	COPd	2.57	-
T_j = operation limit temperature	Pdh	2.80	kW	T_j = operation limit temperature	COPd	1.97	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.80	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2833	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC		GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H12A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	3.4	kW	**Seasonal space heating energy efficiency**	η_s	101	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	2.14	kW	T_j = -7°C	COPd	2.32	-
T_j = +2°C	Pdh	1.28	kW	T_j = +2°C	COPd	2.99	-
T_j = +7°C	Pdh	1.02	kW	T_j = +7°C	COPd	3.86	-
T_j = +12°C	Pdh	1.37	kW	T_j = +12°C	COPd	6.28	-
T_j = bivalent temperature	Pdh	2.74	kW	T_j = bivalent temperature	COPd	1.74	-
T_j = operation limit temperature	Pdh	1.64	kW	T_j = operation limit temperature	COPd	1.02	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.76	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3233	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	119.2	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H24A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	6.1	kW	**Seasonal space heating energy efficiency**	η_s	256	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	5.85	kW	T_j = +2°C	COPd	3.91	-
T_j = +7°C	Pdh	3.92	kW	T_j = +7°C	COPd	5.89	-
T_j = +12°C	Pdh	1.93	kW	T_j = +12°C	COPd	8.31	-
T_j = bivalent temperature	Pdh	3.92	kW	T_j = bivalent temperature	COPd	5.89	-
T_j = operation limit temperature	Pdh	5.85	kW	T_j = operation limit temperature	COPd	3.91	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.25	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	1258	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H24A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5.1	kW	**Seasonal space heating energy efficiency**	η_s	162	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	4.85	kW	T_j = +2°C	COPd	2.48	-
T_j = +7°C	Pdh	3.28	kW	T_j = +7°C	COPd	3.61	-
T_j = +12°C	Pdh	1.69	kW	T_j = +12°C	COPd	5.42	-
T_j = bivalent temperature	Pdh	3.28	kW	T_j = bivalent temperature	COPd	3.61	-
T_j = operation limit temperature	Pdh	4.85	kW	T_j = operation limit temperature	COPd	2.48	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.25	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	1652	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC		GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H24A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	6.8	kW	**Seasonal space heating energy efficiency**	η_s	196	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	6.02	kW	T_j = -7°C	COPd	2.85	-
T_j = +2°C	Pdh	3.66	kW	T_j = +2°C	COPd	4.98	-
T_j = +7°C	Pdh	2.35	kW	T_j = +7°C	COPd	6.38	-
T_j = +12°C	Pdh	2.17	kW	T_j = +12°C	COPd	9.67	-
T_j = bivalent temperature	Pdh	6.02	kW	T_j = bivalent temperature	COPd	2.85	-
T_j = operation limit temperature	Pdh	5.42	kW	T_j = operation limit temperature	COPd	2.90	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.38	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2818	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	119.2	%
Daily electricity consumption	Q_{elec}	3.911	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	860	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H24A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	6.3	kW	**Seasonal space heating energy efficiency**	η_s	151	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	5.57	kW	T_j = -7°C	COPd	2.40	-
T_j = +2°C	Pdh	3.39	kW	T_j = +2°C	COPd	3.72	-
T_j = +7°C	Pdh	2.18	kW	T_j = +7°C	COPd	5.26	-
T_j = +12°C	Pdh	2.07	kW	T_j = +12°C	COPd	7.91	-
T_j = bivalent temperature	Pdh	5.58	kW	T_j = bivalent temperature	COPd	2.40	-
T_j = operation limit temperature	Pdh	6.00	kW	T_j = operation limit temperature	COPd	2.06	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.30	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41/56	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3381	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	119.2	%
Daily electricity consumption	Q_{elec}	3.911	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	860	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H24A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5.6	kW	**Seasonal space heating energy efficiency**	η_s	164	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	3.42	kW	T_j = -7°C	COPd	3.59	-
T_j = +2°C	Pdh	2.06	kW	T_j = +2°C	COPd	5.21	-
T_j = +7°C	Pdh	1.46	kW	T_j = +7°C	COPd	6.24	-
T_j = +12°C	Pdh	1.44	kW	T_j = +12°C	COPd	7.66	-
T_j = bivalent temperature	Pdh	4.59	kW	T_j = bivalent temperature	COPd	2.53	-
T_j = operation limit temperature	Pdh	3.48	kW	T_j = operation limit temperature	COPd	1.96	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	2.12	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3314	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H24A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	4.3	kW	**Seasonal space heating energy efficiency**	η_s	111	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	2.69	kW	T_j = -7°C	COPd	2.46	-
T_j = +2°C	Pdh	1.60	kW	T_j = +2°C	COPd	3.36	-
T_j = +7°C	Pdh	1.02	kW	T_j = +7°C	COPd	3.94	-
T_j = +12°C	Pdh	1.37	kW	T_j = +12°C	COPd	6.35	-
T_j = bivalent temperature	Pdh	3.47	kW	T_j = bivalent temperature	COPd	1.86	-
T_j = operation limit temperature	Pdh	2.09	kW	T_j = operation limit temperature	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	2.20	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2800	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3760	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC		GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H30A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	8.1	kW	**Seasonal space heating energy efficiency**	η_s	272	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	7.80	kW	T_j = +2°C	COPd	3.98	-
T_j = +7°C	Pdh	5.21	kW	T_j = +7°C	COPd	5.88	-
T_j = +12°C	Pdh	2.63	kW	T_j = +12°C	COPd	9.36	-
T_j = bivalent temperature	Pdh	5.21	kW	T_j = bivalent temperature	COPd	5.88	-
T_j = operation limit temperature	Pdh	7.80	kW	T_j = operation limit temperature	COPd	3.98	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.30	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	1573	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC		GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H30A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	7.6	kW	**Seasonal space heating energy efficiency**	η_s	173	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	7.30	kW	T_j = +2°C	COPd	2.59	-
T_j = +7°C	Pdh	4.89	kW	T_j = +7°C	COPd	3.90	-
T_j = +12°C	Pdh	2.17	kW	T_j = +12°C	COPd	5.55	-
T_j = bivalent temperature	Pdh	4.89	kW	T_j = bivalent temperature	COPd	3.90	-
T_j = operation limit temperature	Pdh	7.30	kW	T_j = operation limit temperature	COPd	2.59	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.30	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2304	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC		GJ
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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H30A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	8.1	kW	**Seasonal space heating energy efficiency**	η_s	198	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	7.17	kW	T_j = -7°C	COPd	3.23	-
T_j = +2°C	Pdh	4.36	kW	T_j = +2°C	COPd	4.93	-
T_j = +7°C	Pdh	2.80	kW	T_j = +7°C	COPd	6.81	-
T_j = +12°C	Pdh	3.15	kW	T_j = +12°C	COPd	10.10	-
T_j = bivalent temperature	Pdh	7.17	kW	T_j = bivalent temperature	COPd	3.23	-
T_j = operation limit temperature	Pdh	6.44	kW	T_j = operation limit temperature	COPd	3.23	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.66	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3246	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	118	%
Daily electricity consumption	Q_{elec}	3.951	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	869	kWh	Annual fuel consumption	AFC	-	GJ
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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H30A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	6.6	kW	**Seasonal space heating energy efficiency**	η_s	152	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	5.84	kW	T_j = -7°C	COPd	2.43	-
T_j = +2°C	Pdh	3.55	kW	T_j = +2°C	COPd	3.83	-
T_j = +7°C	Pdh	2.28	kW	T_j = +7°C	COPd	4.98	-
T_j = +12°C	Pdh	2.99	kW	T_j = +12°C	COPd	7.66	-
T_j = bivalent temperature	Pdh	5.84	kW	T_j = bivalent temperature	COPd	2.43	-
T_j = operation limit temperature	Pdh	4.90	kW	T_j = operation limit temperature	COPd	2.43	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.69	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41/57	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3510	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	118	%
Daily electricity consumption	Q_{elec}	3.951	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	869	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H30A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition	Colder			Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	7.0	kW	**Seasonal space heating energy efficiency**	η_s	168	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	4.46	kW	T_j = -7°C	COPd	3.66	-
T_j = +2°C	Pdh	2.69	kW	T_j = +2°C	COPd	5.20	-
T_j = +7°C	Pdh	1.65	kW	T_j = +7°C	COPd	6.53	-
T_j = +12°C	Pdh	1.65	kW	T_j = +12°C	COPd	7.96	-
T_j = bivalent temperature	Pdh	5.69	kW	T_j = bivalent temperature	COPd	2.83	-
T_j = operation limit temperature	Pdh	6.05	kW	T_j = operation limit temperature	COPd	1.95	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.95	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	4036	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H30A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	5.8	kW	**Seasonal space heating energy efficiency**	η_s	111	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	3.86	kW	T_j = -7°C	COPd	2.48	-
T_j = +2°C	Pdh	2.21	kW	T_j = +2°C	COPd	3.35	-
T_j = +7°C	Pdh	1.44	kW	T_j = +7°C	COPd	4.11	-
T_j = +12°C	Pdh	1.47	kW	T_j = +12°C	COPd	5.92	-
T_j = bivalent temperature	Pdh	4.71	kW	T_j = bivalent temperature	COPd	1.90	-
T_j = operation limit temperature	Pdh	4.80	kW	T_j = operation limit temperature	COPd	1.22	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.00	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	5014	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H36A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	8.6	kW	**Seasonal space heating energy efficiency**	η_s	267	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	8.20	kW	T_j = +2°C	COPd	3.84	-
T_j = +7°C	Pdh	5.53	kW	T_j = +7°C	COPd	5.85	-
T_j = +12°C	Pdh	2.76	kW	T_j = +12°C	COPd	9.14	-
T_j = bivalent temperature	Pdh	5.53	kW	T_j = bivalent temperature	COPd	5.85	-
T_j = operation limit temperature	Pdh	8.20	kW	T_j = operation limit temperature	COPd	3.84	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.40	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	1701	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H36A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	8.6	kW	**Seasonal space heating energy efficiency**	η_s	177	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	8.20	kW	T_j = +2°C	COPd	2.59	-
T_j = +7°C	Pdh	5.53	kW	T_j = +7°C	COPd	3.93	-
T_j = +12°C	Pdh	2.46	kW	T_j = +12°C	COPd	5.82	-
T_j = bivalent temperature	Pdh	5.53	kW	T_j = bivalent temperature	COPd	3.93	-
T_j = operation limit temperature	Pdh	8.20	kW	T_j = operation limit temperature	COPd	2.59	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.40	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2545	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H36A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	9.2	kW	**Seasonal space heating energy efficiency**	η_s	203	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	8.14	kW	T_j = -7°C	COPd	3.10	-
T_j = +2°C	Pdh	4.95	kW	T_j = +2°C	COPd	5.02	-
T_j = +7°C	Pdh	3.18	kW	T_j = +7°C	COPd	6.50	-
T_j = +12°C	Pdh	2.76	kW	T_j = +12°C	COPd	10.55	-
T_j = bivalent temperature	Pdh	8.14	kW	T_j = bivalent temperature	COPd	3.10	-
T_j = operation limit temperature	Pdh	7.40	kW	T_j = operation limit temperature	COPd	3.10	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.80	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3690	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	η_{wh}	118	%
Daily electricity consumption	Q_{elec}	3.951	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	869	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H36A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	7.7	kW	**Seasonal space heating energy efficiency**	η_s	152	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	6.81	kW	T_j = -7°C	COPd	2.43	-
T_j = +2°C	Pdh	4.15	kW	T_j = +2°C	COPd	3.82	-
T_j = +7°C	Pdh	2.67	kW	T_j = +7°C	COPd	5.00	-
T_j = +12°C	Pdh	3.39	kW	T_j = +12°C	COPd	7.45	-
T_j = bivalent temperature	Pdh	6.81	kW	T_j = bivalent temperature	COPd	2.43	-
T_j = operation limit temperature	Pdh	5.23	kW	T_j = operation limit temperature	COPd	2.43	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	2.47	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41/57	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	4105	kWh				
For heat pump combination heater							
Declaed load profile	-			Water heating energy efficiency	η_{wh}	118	%
Daily electricity consumption	Q_{elec}	3.951	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	869	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H36A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	7.7	kW	**Seasonal space heating energy efficiency**	η_s	168	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	4.83	kW	T_j = -7°C	COPd	3.60	-
T_j = +2°C	Pdh	2.94	kW	T_j = +2°C	COPd	5.26	-
T_j = +7°C	Pdh	1.92	kW	T_j = +7°C	COPd	7.08	-
T_j = +12°C	Pdh	1.65	kW	T_j = +12°C	COPd	7.96	-
T_j = bivalent temperature	Pdh	6.32	kW	T_j = bivalent temperature	COPd	2.64	-
T_j = operation limit temperature	Pdh	6.69	kW	T_j = operation limit temperature	COPd	1.94	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.01	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	4439	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H36A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	6.7	kW	**Seasonal space heating energy efficiency**	η_s	116	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	4.27	kW	T_j = -7°C	COPd	2.54	-
T_j = +2°C	Pdh	2.57	kW	T_j = +2°C	COPd	3.51	-
T_j = +7°C	Pdh	1.65	kW	T_j = +7°C	COPd	4.37	-
T_j = +12°C	Pdh	1.48	kW	T_j = +12°C	COPd	5.96	-
T_j = bivalent temperature	Pdh	5.47	kW	T_j = bivalent temperature	COPd	2.00	-
T_j = operation limit temperature	Pdh	5.40	kW	T_j = operation limit temperature	COPd	1.22	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.30	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4000	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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	5574	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H42A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	11.3	kW	**Seasonal space heating energy efficiency**	η_s	254	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	11.10	kW	T_j = +2°C	COPd	3.59	-
T_j = +7°C	Pdh	7.26	kW	T_j = +7°C	COPd	5.82	-
T_j = +12°C	Pdh	4.61	kW	T_j = +12°C	COPd	8.30	-
T_j = bivalent temperature	Pdh	7.26	kW	T_j = bivalent temperature	COPd	5.82	-
T_j = operation limit temperature	Pdh	11.10	kW	T_j = operation limit temperature	COPd	3.59	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.20	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2350	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H42A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	12.5	kW	**Seasonal space heating energy efficiency**	η_s	174	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
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°C	COPd	3.82	-
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	3.82	-
T_j = operation limit temperature	Pdh	12.30	kW	T_j = operation limit temperature	COPd	2.31	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.20	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	3775	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H42A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	13.2	kW	**Seasonal space heating energy efficiency**	η_s	188	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	11.68	kW	T_j = -7°C	COPd	2.99	-
T_j = +2°C	Pdh	7.11	kW	T_j = +2°C	COPd	4.40	-
T_j = +7°C	Pdh	4.57	kW	T_j = +7°C	COPd	6.77	-
T_j = +12°C	Pdh	4.30	kW	T_j = +12°C	COPd	9.70	-
T_j = bivalent temperature	Pdh	11.68	kW	T_j = bivalent temperature	COPd	2.99	-
T_j = operation limit temperature	Pdh	12.60	kW	T_j = operation limit temperature	COPd	2.60	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.60	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	5712	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	115.2	%
Daily electricity consumption	Q_{elec}	4.047	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	890	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H42A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	12.0	kW	**Seasonal space heating energy efficiency**	η_s	150	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	10.62	kW	T_j = -7°C	COPd	2.40	-
T_j = +2°C	Pdh	6.46	kW	T_j = +2°C	COPd	3.64	-
T_j = +7°C	Pdh	4.15	kW	T_j = +7°C	COPd	5.04	-
T_j = +12°C	Pdh	4.08	kW	T_j = +12°C	COPd	7.65	-
T_j = bivalent temperature	Pdh	10.62	kW	T_j = bivalent temperature	COPd	2.40	-
T_j = operation limit temperature	Pdh	11.80	kW	T_j = operation limit temperature	COPd	2.07	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.20	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41/58	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	6481	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	115.2	%
Daily electricity consumption	Q_{elec}	4.047	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	890	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H42A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	11.4	kW	**Seasonal space heating energy efficiency**	η_s	159	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	7.05	kW	T_j = -7°C	COPd	3.48	-
T_j = +2°C	Pdh	4.67	kW	T_j = +2°C	COPd	4.96	-
T_j = +7°C	Pdh	3.14	kW	T_j = +7°C	COPd	6.10	-
T_j = +12°C	Pdh	3.57	kW	T_j = +12°C	COPd	7.87	-
T_j = bivalent temperature	Pdh	9.28	kW	T_j = bivalent temperature	COPd	2.59	-
T_j = operation limit temperature	Pdh	10.00	kW	T_j = operation limit temperature	COPd	1.98	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.40	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	6926	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H42A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	10.3	kW	**Seasonal space heating energy efficiency**	η_s	117	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
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°C	COPd	3.60	-
T_j = +7°C	Pdh	2.78	kW	T_j = +7°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	8.30	kW	T_j = operation limit temperature	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	2.00	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	8453	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H48A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	12.1	kW	**Seasonal space heating energy efficiency**	η_s	259	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	12.00	kW	T_j = +2°C	COPd	3.44	-
T_j = +7°C	Pdh	7.78	kW	T_j = +7°C	COPd	5.84	-
T_j = +12°C	Pdh	4.23	kW	T_j = +12°C	COPd	8.43	-
T_j = bivalent temperature	Pdh	7.78	kW	T_j = bivalent temperature	COPd	5.84	-
T_j = operation limit temperature	Pdh	12.00	kW	T_j = operation limit temperature	COPd	3.44	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.10	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2464	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H48A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	13.7	kW	**Seasonal space heating energy efficiency**	η_s	178	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	13.60	kW	T_j = +2°C	COPd	2.18	-
T_j = +7°C	Pdh	8.83	kW	T_j = +7°C	COPd	3.91	-
T_j = +12°C	Pdh	4.08	kW	T_j = +12°C	COPd	5.90	-
T_j = bivalent temperature	Pdh	8.83	kW	T_j = bivalent temperature	COPd	3.91	-
T_j = operation limit temperature	Pdh	13.60	kW	T_j = operation limit temperature	COPd	2.18	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.10	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	4037	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H48A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	14.5	kW	**Seasonal space heating energy efficiency**	η_s	188	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	12.83	kW	T_j = -7°C	COPd	2.98	-
T_j = +2°C	Pdh	7.81	kW	T_j = +2°C	COPd	4.39	-
T_j = +7°C	Pdh	5.02	kW	T_j = +7°C	COPd	6.80	-
T_j = +12°C	Pdh	4.30	kW	T_j = +12°C	COPd	9.95	-
T_j = bivalent temperature	Pdh	12.83	kW	T_j = bivalent temperature	COPd	2.98	-
T_j = operation limit temperature	Pdh	13.10	kW	T_j = operation limit temperature	COPd	2.60	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.40	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	6275	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	115.2	%
Daily electricity consumption	Q_{elec}	4.047	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	890	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H48A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	13.0	kW	**Seasonal space heating energy efficiency**	η_s	150	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	11.50	kW	T_j = -7°C	COPd	2.40	-
T_j = +2°C	Pdh	7.00	kW	T_j = +2°C	COPd	3.64	-
T_j = +7°C	Pdh	4.50	kW	T_j = +7°C	COPd	5.04	-
T_j = +12°C	Pdh	4.06	kW	T_j = +12°C	COPd	7.65	-
T_j = bivalent temperature	Pdh	11.50	kW	T_j = bivalent temperature	COPd	2.40	-
T_j = operation limit temperature	Pdh	12.20	kW	T_j = operation limit temperature	COPd	2.07	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.80	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41/59	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	7020	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	115.2	%
Daily electricity consumption	Q_{elec}	4.047	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	890	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H48A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	12.6	kW	**Seasonal space heating energy efficiency**	η_s	159	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	7.96	kW	T_j = -7°C	COPd	3.44	-
T_j = +2°C	Pdh	5.05	kW	T_j = +2°C	COPd	4.92	-
T_j = +7°C	Pdh	3.15	kW	T_j = +7°C	COPd	6.11	-
T_j = +12°C	Pdh	3.57	kW	T_j = +12°C	COPd	7.82	-
T_j = bivalent temperature	Pdh	10.31	kW	T_j = bivalent temperature	COPd	2.53	-
T_j = operation limit temperature	Pdh	11.00	kW	T_j = operation limit temperature	COPd	1.92	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.60	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	7685	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H48A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	11.0	kW	**Seasonal space heating energy efficiency**	η_s	118	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	6.89	kW	T_j = -7°C	COPd	2.66	-
T_j = +2°C	Pdh	4.32	kW	T_j = +2°C	COPd	3.66	-
T_j = +7°C	Pdh	3.06	kW	T_j = +7°C	COPd	4.72	-
T_j = +12°C	Pdh	3.33	kW	T_j = +12°C	COPd	6.25	-
T_j = bivalent temperature	Pdh	8.94	kW	T_j = bivalent temperature	COPd	1.79	-
T_j = operation limit temperature	Pdh	8.90	kW	T_j = operation limit temperature	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	2.10	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	8937	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H60A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Warmer		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	13.1	kW	**Seasonal space heating energy efficiency**	η_s	246	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	12.97	kW	T_j = +2°C	COPd	3.35	-
T_j = +7°C	Pdh	8.41	kW	T_j = +7°C	COPd	5.31	-
T_j = +12°C	Pdh	4.29	kW	T_j = +12°C	COPd	8.23	-
T_j = bivalent temperature	Pdh	8.42	kW	T_j = bivalent temperature	COPd	5.31	-
T_j = operation limit temperature	Pdh	12.97	kW	T_j = operation limit temperature	COPd	3.35	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.13	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	2811	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H60A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
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**	η_s	176	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	-	kW	T_j = -7°C	COPd	-	-
T_j = +2°C	Pdh	13.67	kW	T_j = +2°C	COPd	2.25	-
T_j = +7°C	Pdh	8.87	kW	T_j = +7°C	COPd	3.80	-
T_j = +12°C	Pdh	3.94	kW	T_j = +12°C	COPd	5.88	-
T_j = bivalent temperature	Pdh	8.87	kW	T_j = bivalent temperature	COPd	3.80	-
T_j = operation limit temperature	Pdh	13.67	kW	T_j = operation limit temperature	COPd	2.25	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.13	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	4118	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) 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.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H60A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Average		Declared temperature application		Low	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	15.0	kW	**Seasonal space heating energy efficiency**	η_s	188	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	13.27	kW	T_j = -7°C	COPd	2.95	-
T_j = +2°C	Pdh	8.08	kW	T_j = +2°C	COPd	4.40	-
T_j = +7°C	Pdh	5.19	kW	T_j = +7°C	COPd	6.81	-
T_j = +12°C	Pdh	4.30	kW	T_j = +12°C	COPd	9.95	-
T_j = bivalent temperature	Pdh	13.27	kW	T_j = bivalent temperature	COPd	2.95	-
T_j = operation limit temperature	Pdh	13.50	kW	T_j = operation limit temperature	COPd	2.60	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.50	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	6492	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	115.2	%
Daily electricity consumption	Q_{elec}	4.047	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	890	kWh	Annual fuel consumption	AFC	-	GJ
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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H60A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition	Average			Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	13.0	kW	**Seasonal space heating energy efficiency**	η_s	150	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	11.50	kW	T_j = -7°C	COPd	2.40	-
T_j = +2°C	Pdh	7.00	kW	T_j = +2°C	COPd	3.64	-
T_j = +7°C	Pdh	4.50	kW	T_j = +7°C	COPd	5.04	-
T_j = +12°C	Pdh	4.00	kW	T_j = +12°C	COPd	7.65	-
T_j = bivalent temperature	Pdh	11.50	kW	T_j = bivalent temperature	COPd	2.40	-
T_j = operation limit temperature	Pdh	12.20	kW	T_j = operation limit temperature	COPd	2.07	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.80	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m^3/h
Sound power level, indoors/outdoors	L_{WA}	41/60	dB	For water-/brine-to-water heat pumps:Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	7020	kWh				
For heat pump combination heater							
Declaed load profile	L			Water heating energy efficiency	η_{wh}	115.2	%
Daily electricity consumption	Q_{elec}	4.047	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	890	kWh	Annual fuel consumption	AFC	-	GJ
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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H60A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
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**	η_s	157	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	8.29	kW	T_j = -7°C	COPd	3.36	-
T_j = +2°C	Pdh	5.05	kW	T_j = +2°C	COPd	4.85	-
T_j = +7°C	Pdh	3.24	kW	T_j = +7°C	COPd	6.49	-
T_j = +12°C	Pdh	3.34	kW	T_j = +12°C	COPd	7.40	-
T_j = bivalent temperature	Pdh	11.18	kW	T_j = bivalent temperature	COPd	2.43	-
T_j = operation limit temperature	Pdh	12.20	kW	T_j = operation limit temperature	COPd	1.97	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.50	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	8445	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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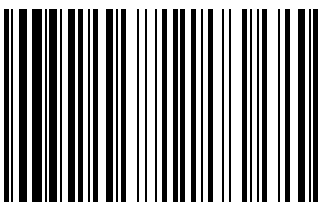
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters							
Model(s):	Qutdoor unit：ACHHC-H60A4/ASR2DI Indoor unit：AHS-R24/C9D3A-19						
Air-to-water heat pump:	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:	yes						
Declared climate condition		Colder		Declared temperature application		Medium	
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	11.8	kW	**Seasonal space heating energy efficiency**	η_s	121	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	Pdh	7.14	kW	T_j = -7°C	COPd	2.65	-
T_j = +2°C	Pdh	4.35	kW	T_j = +2°C	COPd	3.77	-
T_j = +7°C	Pdh	2.79	kW	T_j = +7°C	COPd	4.81	-
T_j = +12°C	Pdh	3.43	kW	T_j = +12°C	COPd	6.29	-
T_j = bivalent temperature	Pdh	9.63	kW	T_j = bivalent temperature	COPd	1.86	-
T_j = operation limit temperature	Pdh	9.80	kW	T_j = operation limit temperature	COPd	1.23	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20℃)	COPd	-	-
Bivalent temperature	T_{biv}	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient(**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	75	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	2.00	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input	Electricity		
Standby mode	P_{SB}	0.020	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			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 exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	9381	kWh				
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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.




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