Technical parameters							
Model(s):	Outdoor unit: ACHP-H10/4R3HA-O Indoor unit: ACHP-H10/5R3HA-I						
Air-to-water heat ump:	yes						
Water-to-water heat pump:	no						
Brine-to-water heat pump:	no						
Low-temperature heat pump:	no						
Equipped with a supplementary heater:	no						
Heat pump combination heater:	no						
Declared climate condition	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	266	%
Declared capacity for heating for part load at indoor temperature 20 ℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	-	kW	T_j = -7℃	COPd	-	-
T_j = +2℃	Pdh	8.20	kW	T_j = +2℃	COPd	3.84	-
T_j = +7℃	Pdh	5.53	kW	T_j = +7℃	COPd	6.18	-
T_j = +12℃	Pdh	2.46	kW	T_j = +12℃	COPd	9.04	-
T_j = bivalent temperature	Pdh	5.53	kW	T_j = bivalent temperature	COPd	6.18	-
T_j = operation limit temperature	Pdh	8.20	kW	T_j = operation limit temperature	COPd	3.84	-
For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: T_j = -15℃ (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	60	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.4	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}	1709	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
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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):	Outdoor unit: ACHP-H10/4R3HA-O Indoor unit: ACHP-H10/5R3HA-I						
Air-to-water heat ump:	yes						
Water-to-water heat pump:	no						
Brine-to-water heat pump:	no						
Low-temperature heat pump:	no						
Equipped with a supplementary heater:	no						
Heat pump combination heater:	no						
Declared climate condition	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	176	%
Declared capacity for heating for part load at indoor temperature 20℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	-	kW	T_j = -7℃	COPd	-	-
T_j = +2℃	Pdh	8.20	kW	T_j = +2℃	COPd	2.59	-
T_j = +7℃	Pdh	5.53	kW	T_j = +7℃	COPd	4.10	-
T_j = +12℃	Pdh	2.53	kW	T_j = +12℃	COPd	5.82	-
T_j = bivalent temperature	Pdh	5.53	kW	T_j = bivalent temperature	COPd	4.10	-
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℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃ (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	60	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	0.4	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}	2567	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
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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):	Outdoor unit: ACHP-H10/4R3HA-O Indoor unit: ACHP-H10/5R3HA-I						
Air-to-water heat ump:	yes						
Water-to-water heat pump:	no						
Brine-to-water heat pump:	no						
Low-temperature heat pump:	no						
Equipped with a supplementary heater:	no						
Heat pump combination heater:	no						
Declared climate condition	Average						
Declared temperature application	Low						
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	9.2	kW	**Seasonal space heating energy efficiency**	η_s	198	%
Declared capacity for heating for part load at indoor temperature 20℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	8.14	kW	T_j = -7℃	COPd	3.17	-
T_j = +2℃	Pdh	4.95	kW	T_j = +2℃	COPd	5.02	-
T_j = +7℃	Pdh	3.18	kW	T_j = +7℃	COPd	6.60	-
T_j = +12℃	Pdh	1.42	kW	T_j = +12℃	COPd	8.33	-
T_j = bivalent temperature	Pdh	8.14	kW	T_j = bivalent temperature	COPd	3.17	-
T_j = operation limit temperature	Pdh	7.40	kW	T_j = operation limit temperature	COPd	2.86	-
For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: T_j = -15℃ (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	60	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	1.8	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}	3752	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
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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):	Outdoor unit: ACHP-H10/4R3HA-O Indoor unit: ACHP-H10/5R3HA-I						
Air-to-water heat ump:	yes						
Water-to-water heat pump:	no						
Brine-to-water heat pump:	no						
Low-temperature heat pump:	no						
Equipped with a supplementary heater:	no						
Heat pump combination heater:	no						
Declared climate condition	Average						
Declared temperature application	Medium						
Item	**Symbol**	**Value**	**Unit**	**Item**	**Symbol**	**Value**	**Unit**
Rated heat output(*)	Prated	7.7	kW	**Seasonal space heating energy efficiency**	η_s	135	%
Declared capacity for heating for part load at indoor temperature 20℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	6.81	kW	T_j = -7℃	COPd	2.03	-
T_j = +2℃	Pdh	4.15	kW	T_j = +2℃	COPd	3.46	-
T_j = +7℃	Pdh	2.67	kW	T_j = +7℃	COPd	4.71	-
T_j = +12℃	Pdh	1.18	kW	T_j = +12℃	COPd	7.01	-
T_j = bivalent temperature	Pdh	6.81	kW	T_j = bivalent temperature	COPd	2.03	-
T_j = operation limit temperature	Pdh	5.23	kW	T_j = operation limit temperature	COPd	1.63	-
For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: T_j = -15℃ (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	60	℃
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}	42/60	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}	4618	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
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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):	Outdoor unit: ACHP-H10/4R3HA-O Indoor unit: ACHP-H10/5R3HA-I						
Air-to-water heat ump:	yes						
Water-to-water heat pump:	no						
Brine-to-water heat pump:	no						
Low-temperature heat pump:	no						
Equipped with a supplementary heater:	no						
Heat pump combination heater:	no						
Declared climate condition	Colder						
Declared temperature application	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 ℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	4.83	kW	T_j = -7℃	COPd	3.60	-
T_j = +2℃	Pdh	2.94	kW	T_j = +2℃	COPd	5.26	-
T_j = +7℃	Pdh	1.92	kW	T_j = +7℃	COPd	7.08	-
T_j = +12℃	Pdh	1.65	kW	T_j = +12℃	COPd	7.96	-
T_j = bivalent temperature	Pdh	6.32	kW	T_j = bivalent temperature	COPd	2.64	-
T_j = operation limit temperature	Pdh	4.62	kW	T_j = operation limit temperature	COPd	1.97	-
For air-to-water heat pumps: Tj = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃ (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	52	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	3.08	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
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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):	Outdoor unit: ACHP-H10/4R3HA-O Indoor unit: ACHP-H10/5R3HA-I						
Air-to-water heat ump:	yes						
Water-to-water heat pump:	no						
Brine-to-water heat pump:	no						
Low-temperature heat pump:	no						
Equipped with a supplementary heater:	no						
Heat pump combination heater:	no						
Declared climate condition	Colder						
Declared temperature application	Medium						
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 ℃ and outdoor temperature T_j				Declared coeffient of performance or primary energy ratio for part load at indoor temperature 20℃ and outdoor temperature T_j			
T_j = -7℃	Pdh	4.27	kW	T_j = -7℃	COPd	2.54	-
T_j = +2℃	Pdh	2.57	kW	T_j = +2℃	COPd	3.51	-
T_j = +7℃	Pdh	1.65	kW	T_j = +7℃	COPd	4.37	-
T_j = +12℃	Pdh	1.48	kW	T_j = +12℃	COPd	5.96	-
T_j = bivalent temperature	Pdh	5.47	kW	T_j = bivalent temperature	COPd	2.00	-
T_j = operation limit temperature	Pdh	2.80	kW	T_j = operation limit temperature	COPd	1.22	-
For air-to-water heat pumps: T_j = -15℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps: T_j = -15℃ (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	52	℃
Power consumption in modes other than active mode				Supplemantary heater			
Off mode	P_{OFF}	0.020	kW	Rated heat output (*)	Psup	3.9	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
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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