Technical parameters

Model(s):	Outdoor unit: AQUE-080-V3 Indoor unit: AQUI-080-V3
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:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η_s	125	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	6.1	kW	Tj = -7 ℃	COPd	2.00	-
Tj = 2 ℃	Pdh	3.8	kW	Tj = 2 ℃	COPd	3.10	-
Tj = 7 ℃	Pdh	2.5	kW	Tj = 7 ℃	COPd	4.28	-
Tj = 12 ℃	Pdh	2.2	kW	Tj = 12 ℃	COPd	6.53	-
Tj = bivalent temperature	Pdh	6.1	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operating limit	Pdh	6.2	kW	Tj = operating limit	COPd	1.71	-
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COP_{cyc}	-	-
Degradation co-efficient (**)	C_{dh}	0.9	--	Heating water operating limit temperature	W_{TOL}	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{off}	0.019	kW	Rated heat output (**)	Psup	0.7	kW
Standby mode	P_{sb}	0.019	kW				
Thermostat-off mode	P_{to}	0.051	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{ck}	0.014	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	—	5116	m³/h
Sound power level, indoors/ outdoors	L_{WA}	43 / 69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	-	m³/h
Annual energy consumption	Q_{HE}	4475	kWh				
For heat pump combination heater:							
Declared 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(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	Outdoor unit: AQUE-080-V3 Indoor unit: AQUI-080-V3
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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	110	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
$Tj = -7\,°C$	Pdh	4.3	kW	$Tj = -7\,°C$	COPd	2.26	-
$Tj = 2\,°C$	Pdh	2.7	kW	$Tj = 2\,°C$	COPd	3.43	-
$Tj = 7\,°C$	Pdh	2.3	kW	$Tj = 7\,°C$	COPd	4.63	-
$Tj = 12\,°C$	Pdh	2.4	kW	$Tj = 12\,°C$	COPd	6.73	-
Tj = bivalent temperature	Pdh	5.5	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	4.8	kW	Tj = operating limit	COPd	1.35	-
For air-to-water heat pumps: $Tj = -15\,°C$	Pdh	-	kW	For air-to-water heat pumps: $Tj = -15\,°C$	COPd	-	-
Bivalent temperature	T_{biv}	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COP_{cyc}	-	-
Degradation co-efficient (**)	C_{dh}	0.9	--	Heating water operating limit temperature	W_{TOL}	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{off}	0.019	kW	Rated heat output (**)	Psup	7.0	kW
Standby mode	P_{sb}	0.019	kW				
Thermostat-off mode	P_{to}	0.051	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{ck}	0.014	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	–	5116	m³/h
Sound power level, indoors/ outdoors	L_{WA}	-	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m³/h
Annual energy consumption	Q_{HE}	6054	kWh				
For heat pump combination heater:							
Declared 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(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters			

Model(s):	Outdoor unit: AQUE-080-V3 Indoor unit: AQUI-080-V3		
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:	YES		
Heat pump combination heater:	NO		
Declared climate condition:	WARMER		

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	7.2	kW	Tj = 2°C	COPd	2.25	-
Tj = 7°C	Pdh	4.7	kW	Tj = 7°C	COPd	3.27	-
Tj = 12°C	Pdh	2.1	kW	Tj = 12°C	COPd	5.33	-
Tj = bivalent temperature	Pdh	7.2	kW	Tj = bivalent temperature	COPd	2.25	-
Tj = operating limit	Pdh	7.2	kW	Tj = operating limit	COPd	2.25	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	T_{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COP_{cyc}	-	-
Degradation co-efficient (**)	C_{dh}	0.9	--	Heating water operating limit temperature	W_{TOL}	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{off}	0.019	kW	Rated heat output (**)	Psup	0	kW
Standby mode	P_{sb}	0.019	kW				
Thermostat-off mode	P_{to}	0.051	kW	Type of energy input	Electrical		
Crankcase heater mode	P_{ck}	0.014	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	5116	m³/h
Sound power level, indoors/ outdoors	L_{WA}	-	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	-	m³/h
Annual energy consumption	Q_{HE}	2075	kWh				
For heat pump combination heater:							
Declared 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(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.