

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): URBAN_AOWD_14							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	128	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7$ °C	Pdh	4.0	kW	$T_j = -7$ °C	COPd	2.03	–
Degradation co-efficient (**)	Cdh	0.99	–				
$T_j = 2$ °C	Pdh	2.6	kW	$T_j = 2$ °C	COPd	3.27	–
Degradation co-efficient (**)	Cdh	0.97	–				
$T_j = 7$ °C	Pdh	2.3	kW	$T_j = 7$ °C	COPd	4.30	–
Degradation co-efficient (**)	Cdh	0.95	–				
$T_j = 12$ °C	Pdh	2.8	kW	$T_j = 12$ °C	COPd	6.00	–
Degradation co-efficient (**)	Cdh	0.95	–				
$T_j =$ bivalent temperature	Pdh	4.0	kW	$T_j =$ bivalent temperature	COPd	2.03	–
$T_j =$ operation limit temperature	Pdh	3.8	kW	$T_j =$ operation limit temperature	COPd	1.38	–
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	Pdh	NA	kW	For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	COPd	NA	–
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Psych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	P_{sup}	1.2	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	3200	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	47/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m ³ /h
Annual energy consumption	Q_{HE}	3152	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q_{elec}	4.2215	kWh	Daily fuel consumption	Q_{fuel}	NA	kWh
Annual electricity consumption	AEC	885	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: sat.eurofredgroup.com.				Name of the supplier: EUROFRED S.A.C/ Marqus de Sentmenat, 97 08029 Barcelon			
(*) 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.							

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Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	3	kW	Seasonal space heating energy efficiency	η_s	95	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7$ °C	Pdh	1.9	kW	$T_j = -7$ °C	COPd	1.72	–
Degradation co-efficient (**)	Cdh	0.98	–				
$T_j = 2$ °C	Pdh	1.9	kW	$T_j = 2$ °C	COPd	3.41	–
Degradation co-efficient (**)	Cdh	0.96	–				
$T_j = 7$ °C	Pdh	2.6	kW	$T_j = 7$ °C	COPd	5.29	–
Degradation co-efficient (**)	Cdh	0.95	–				
$T_j = 12$ °C	Pdh	2.9	kW	$T_j = 12$ °C	COPd	6.71	–
Degradation co-efficient (**)	Cdh	0.94	–				
$T_j =$ bivalent temperature	Pdh	2.7	kW	$T_j =$ bivalent temperature	COPd	1.35	–
$T_j =$ operation limit temperature	Pdh	2.3	kW	$T_j =$ operation limit temperature	COPd	1.10	–
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	Pdh	2.7	kW	For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	COPd	1.35	–
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Psych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	P_{sup}	0.7	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	3200	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	47/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m ³ /h
Annual energy consumption	Q_{HE}	3015	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	91	%
Daily electricity consumption	Q_{elec}	5.399	kWh	Daily fuel consumption	Q_{fuel}	NA	kWh
Annual electricity consumption	AEC	1125	kWh	Annual fuel consumption	AFC	NA	GJ
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Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	η_s	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	Pdh	NA	kW	$T_j = -7\text{ °C}$	COPd	NA	-
Degradation co-efficient (**)	Cdh	NA	-				
$T_j = 2\text{ °C}$	Pdh	4.2	kW	$T_j = 2\text{ °C}$	COPd	2.10	-
Degradation co-efficient (**)	Cdh	0.99	-				
$T_j = 7\text{ °C}$	Pdh	2.6	kW	$T_j = 7\text{ °C}$	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.97	-				
$T_j = 12\text{ °C}$	Pdh	2.7	kW	$T_j = 12\text{ °C}$	COPd	5.55	-
Degradation co-efficient (**)	Cdh	0.95	-				
$T_j = \text{bivalent temperature}$	Pdh	4.2	kW	$T_j = \text{bivalent temperature}$	COPd	2.10	-
$T_j = \text{operation limit temperature}$	Pdh	4.2	kW	$T_j = \text{operation limit temperature}$	COPd	2.10	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	Pdh	NA	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	COPd	NA	-
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Psych	NA	kW	Cycling interval efficiency	COPcyc	NA	-
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3200	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	47/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ /h
Annual energy consumption	Q_{HE}	1365	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	122	%
Daily electricity consumption	Q_{elec}	3.9914	kWh	Daily fuel consumption	Q_{fuel}	NA	kWh
Annual electricity consumption	AEC	838	kWh	Annual fuel consumption	AFC	NA	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.							

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Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	184	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7$ °C	Pdh	4.6	kW	$T_j = -7$ °C	COPd	3.23	–
Degradation co-efficient (**)	Cdh	0.98	–				
$T_j = 2$ °C	Pdh	2.9	kW	$T_j = 2$ °C	COPd	4.59	–
Degradation co-efficient (**)	Cdh	0.96	–				
$T_j = 7$ °C	Pdh	2.6	kW	$T_j = 7$ °C	COPd	6.39	–
Degradation co-efficient (**)	Cdh	0.94	–				
$T_j = 12$ °C	Pdh	2.8	kW	$T_j = 12$ °C	COPd	6.37	–
Degradation co-efficient (**)	Cdh	0.94	–				
$T_j =$ bivalent temperature	Pdh	4.6	kW	$T_j =$ bivalent temperature	COPd	3.23	–
$T_j =$ operation limit temperature	Pdh	4.2	kW	$T_j =$ operation limit temperature	COPd	2.56	–
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	Pdh	NA	kW	For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	COPd	NA	–
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Psych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	P _{sup}	0.8	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	3200	m ³ / h
Sound power level, indoors/outdoors	L _{WA}	47/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m ³ / h
Annual energy consumption	Q _{HE}	2216	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.2215	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	885	kWh	Annual fuel consumption	AFC	NA	GJ
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Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	η_s	145	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7$ °C	Pdh	2.4	kW	$T_j = -7$ °C	COPd	2.68	-
Degradation co-efficient (**)	Cdh	0.97	-				
$T_j = 2$ °C	Pdh	2.3	kW	$T_j = 2$ °C	COPd	5.34	-
Degradation co-efficient (**)	Cdh	0.94	-				
$T_j = 7$ °C	Pdh	2.7	kW	$T_j = 7$ °C	COPd	7.04	-
Degradation co-efficient (**)	Cdh	0.94	-				
$T_j = 12$ °C	Pdh	2.6	kW	$T_j = 12$ °C	COPd	6.90	-
Degradation co-efficient (**)	Cdh	0.93	-				
$T_j =$ bivalent temperature	Pdh	3.1	kW	$T_j =$ bivalent temperature	COPd	2.06	-
$T_j =$ operation limit temperature	Pdh	2.8	kW	$T_j =$ operation limit temperature	COPd	1.19	-
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	Pdh	3.1	kW	For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	COPd	2.03	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Psych	NA	kW	Cycling interval efficiency	COPcyc	NA	-
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	P _{sup}	1.3	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3200	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	47/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ /h
Annual energy consumption	Q _{HE}	2662	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	91	%
Daily electricity consumption	Q _{elec}	5.399	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1125	kWh	Annual fuel consumption	AFC	NA	GJ
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Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	η_s	232	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	Pdh	NA	kW	$T_j = -7\text{ °C}$	COPd	NA	-
Degradation co-efficient (**)	Cdh	NA	-				
$T_j = 2\text{ °C}$	Pdh	4.8	kW	$T_j = 2\text{ °C}$	COPd	3.46	-
Degradation co-efficient (**)	Cdh	0.98	-				
$T_j = 7\text{ °C}$	Pdh	3.3	kW	$T_j = 7\text{ °C}$	COPd	5.57	-
Degradation co-efficient (**)	Cdh	0.96	-				
$T_j = 12\text{ °C}$	Pdh	2.9	kW	$T_j = 12\text{ °C}$	COPd	7.60	-
Degradation co-efficient (**)	Cdh	0.93	-				
$T_j = \text{bivalent temperature}$	Pdh	4.8	kW	$T_j = \text{bivalent temperature}$	COPd	3.46	-
$T_j = \text{operation limit temperature}$	Pdh	4.8	kW	$T_j = \text{operation limit temperature}$	COPd	3.46	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	Pdh	NA	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	COPd	NA	-
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Psych	NA	kW	Cycling interval efficiency	COPcyc	NA	-
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	P_{sup}	0.0	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3200	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	47/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ /h
Annual energy consumption	Q_{HE}	1137	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	122	%
Daily electricity consumption	Q_{elec}	3.9914	kWh	Daily fuel consumption	Q_{fuel}	NA	kWh
Annual electricity consumption	AEC	838	kWh	Annual fuel consumption	AFC	NA	GJ
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