	(heat n			requirements neat pump combination heaters)			
Model(s): URBAN_AOWD_30	(пеат р	ump space i		leat pump combination heaters)			
Air-to-water heat pump	Y			Low-temperature heat pump	N		
				Equipped with a supplementary			
Water-to-water heat pump		N		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	8	kW	Seasonal space heating energy efficiency	ηs	127	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	6.9	kW				
Degradation co-efficient (**)	Cdh	0.99	-	Tj = −7 °C	COPd	2.12	_
Tj = 2 ℃	Pdh	4.2	kW	T: - 2 °C	COD4	2.00	
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	3.09	
Tj = 7 ℃	Pdh	4.3	kW	Ti = 7 °C	COPd	4.34	_
Degradation co-efficient (**)	Cdh	0.97	_	1) - / C	COPa	4.34	
Tj = 12℃	Pdh	4.9	kW	- Tj = 12℃	COPd	5.91	_
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	Pdh 6.9 kW		Tj = bivalent temperature	COPd	2.12	_
Tj = operation limit temperature	Pdh	6.8 kW		Tj = operation limit temperature	COPd	1.75	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$
Cooling internal consists for booking		NIA	1-337	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mo	des other tha	n active mod	le	Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.2	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items				T-	T	I
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	$\boldsymbol{Q}_{\text{HE}}$	5091	kWh	rate, outdoor heat exchanger		1,112	111.5 711
		For	heat pump co	ombination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	123	%
Daily electricity consumption	Qelec	3.985	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption Contact details:	AEC	831	kWh	Annual fuel consumption Name of the supplier:	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.

	(heat p			requirements leat pump combination heaters)			
Model(s): URBAN_AOWD_30							
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	l		
Parameters declared for				Colder climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	ηs	110	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	5.3	kW				-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = −7 °C	COPd	2.42	_
Tj = 2 ℃	Pdh	3.1	kW	T: - 2 °C	COD4	2.22	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 2 ℃	COPd	3.23	_
Tj = 7 ℃	Pdh	4.2	kW	Tj = 7 ℃	COD4	4.70	
Degradation co-efficient (**)	Cdh	0.97	-	IJ = / C	COPd	4.78	_
Tj = 12℃	Pdh	4.8	kW	T: - 12°C	COD4	5.01	
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 12℃	COPd	5.91	_
Tj = bivalent temperature	Pdh 6.7 kW		kW	Tj = bivalent temperature	COPd	1.83	_
Tj = operation limit temperature	Pdh	dh 3.3 kW		Tj = operation limit temperature	COPd	1.22	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	6.7 kW		For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	1.83	-
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$
Cycling interval consoits for heating	D 1 34	kW	Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	K W	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mo	des other tha	n active mod	e	Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	4.7	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	6985	kWh	rate, outdoor heat exchanger		INA	111.5/11
		For l	heat pump co	mbination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	94	%
Daily electricity consumption	Qelec	5.175	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1090	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: sat.eurofredgroup.com.				Name of the supplier: EUROFRED S.A.C/ Marqus de Sentn	nenat, 97 080)29 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.

	(heat p			requirements leat pump combination heaters)				
Model(s): URBAN_AOWD_30								
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	9	kW	Seasonal space heating energy efficiency	ηs	161	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	NA	kW	T. 7.00	CODI	NIA		
Degradation co-efficient (**)	Cdh	NA	_	Tj = −7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	9.0	kW	Tj = 2 ℃	COD4	2.49		
Degradation co-efficient (**)	Cdh	0.99	-	11-2 C	COPd	2.48	_	
Tj = 7 ℃	Pdh	5.9	kW	Tj = 7 ℃	COPd	3.56		
Degradation co-efficient (**)	Cdh	0.98	-	1,1-70	COPa	3.30		
Tj = 12°C	Pdh	5.2	kW	T: - 12°C	COD4	5.20		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 12℃	COPd	5.30	_	
Tj = bivalent temperature	Pdh	Pdh 9.0 kW		Tj = bivalent temperature	COPd	2.48	_	
Tj = operation limit temperature	Pdh	dh 9.0 kW		Tj = operation limit temperature	COPd	2.48	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA kW		For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	NA	-	
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$	
Cycling interval capacity for heating	Pevch NA	kW	Cycling interval efficiency	COPcyc	NA	_		
Cycling interval capacity for heating	Pcych	INA	K VV	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	le	Supplementary heater				
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3300	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	\boldsymbol{Q}_{HE}	2927	kWh	rate, outdoor heat exchanger		IVA	111 3 711	
		For	heat pump co	mbination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	143	%	
Daily electricity consumption	Qelec	3.429	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	717	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.

	(h +			requirements				
Model(s): URBAN_AOWD_30	(heat p	ump space h	eaters and h	eat pump combination heaters)				
		***		Y				
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				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηs	181	%	
Declared capacity for heating for part outdoor tem		or temperatur	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	7.7	kW	T: 7.00	CODI	2.97		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = −7 °C	COPd	2.87	_	
Tj = 2 °C	Pdh	4.8	kW	Tj = 2 °C	COPd	4.24		
Degradation co-efficient (**)	Cdh	0.98	-	1j-2 C	СОРИ	4.34		
Tj = 7 ℃	Pdh	3.1	kW	Ti = 7 ℃	COPd	6.58	_	
Degradation co-efficient (**)	Cdh	0.95	-	1j / C	COTU	0.50		
Tj = 12℃	Pdh	3.7	kW	Tj = 12℃	COPd	8.37	_	
Degradation co-efficient (**)	Cdh	0.94	-	1, 120	2014	0.57		
Tj = bivalent temperature	Pdh	Pdh 7.7 kW		Tj = bivalent temperature	COPd	2.87	_	
Tj = operation limit temperature	Pdh	n 7.1 kW		Tj = operation limit temperature	COPd	2.59	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA kW		For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_	
Bivalent temperature	Tbiv	Tbiv -7 ℃		For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$	
Cycling interval capacity for heating	Peych NA	NA	kW	Cycling interval efficiency	COPcyc	NA	_	
				Heating water operating limit temperature	WTOL	60	$^{\circ}$ C	
Power consumption in mod				Supplementary heater				
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.9	kW	
Thermostat-off mode	P _{TO}	0.025	kW					
Standby mode	P _{SB}	0.025	kW	Type of energy input	Electric			
Crankcase heater mode	P _{CK}	0.025	kW					
Other	items			n i i i i i i i i i i i i i i i i i i i		Ι		
Capacity control		variable	r	For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	Q_{HE}	4038	kWh	rate, outdoor heat exchanger		1111	111 5 711	
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	123	%	
Daily electricity consumption	Qelec	3.985	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	831	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.

	(heat n			requirements neat pump combination heaters)				
Model(s): URBAN_AOWD_30	(пеат р	ump space i		leat pump combination heaters)				
Air-to-water heat pump	Y			Low-temperature heat pump	N			
				Equipped with a supplementary				
Water-to-water heat pump		N		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	8	kW	Seasonal space heating energy efficiency	ηs	149	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	5.2	kW		GODI	2.25		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = −7 °C	COPd	3.25	_	
Tj = 2 ℃	Pdh	3.2	kW	Tj = 2 ℃	COPd	4.31		
Degradation co-efficient (**)	Cdh	0.97	-	11-2 C	СОРИ	4.31		
Tj = 7 ℃	Pdh	4.3	kW	Ti = 7 °C	COPd	6.11	_	
Degradation co-efficient (**)	Cdh	0.96	-	15 / C	COTU	0.11		
Tj = 12℃	Pdh	4.9	kW	- Tj = 12℃	COPd	7.30	_	
Degradation co-efficient (**)	Cdh	0.96	-			7.50		
Tj = bivalent temperature	Pdh	Pdh 6.4 kW		Tj = bivalent temperature	COPd	2.69	_	
Tj = operation limit temperature	Pdh	5.6 kW		Tj = operation limit temperature	COPd	1.67	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	6.4	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	2.69	_	
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$	
Cycling interval consoits for heating	D 1 374	NIA	1-337	Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mod	des other tha	n active mod	le	Supplementary heater				
Off mode	$P_{\rm OFF}$	0.025	kW	Rated heat output (*)	Psup	2.4	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input	Electric			
Crankcase heater mode	P _{CK}	0.025	kW					
Other	items				r	T		
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	Q_{HE}	5201	kWh					
		For	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	94	%	
Daily electricity consumption	Qelec	5.175	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1090	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.

	(h +			requirements				
Model(s): URBAN_AOWD_30	(heat p	ump space h	eaters and h	eat pump combination heaters)				
		v		Low town croture heat numer	N			
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				Warmer climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηs	217	%	
Declared capacity for heating for part outdoor tem		or temperatur	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	NA	kW		CODI	27.4		
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd	NA	_	
Tj = 2 °C	Pdh	8.8	kW	Tj = 2 °C	COPd	2.15		
Degradation co-efficient (**)	Cdh	0.99	-	1j-2 C	СОРИ	3.15		
Tj = 7 ℃	Pdh	5.8	kW	Ti = 7 ℃	COPd	4.86	_	
Degradation co-efficient (**)	Cdh	0.98	-	1j / C	Coru	4.00		
Tj = 12℃	Pdh	5.1	kW	Tj = 12℃	COPd	7.18	_	
Degradation co-efficient (**)	Cdh	Cdh 0.96 -		1, 120	Coru	7.10		
Tj = bivalent temperature	Pdh	Pdh 8.8 kW		Tj = bivalent temperature	COPd	3.15	_	
Tj = operation limit temperature	Pdh	dh 8.8 kW		Tj = operation limit temperature	COPd	3.15	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA kW		For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	-	
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$	
Cycling interval capacity for heating	Pcych NA	NA	kW	Cycling interval efficiency	СОРсус	NA	-	
eyemig interval expansity for neuting			1,11	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mo	des other tha	n active mod	e	Supplementary heater				
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input	Electric			
Crankcase heater mode	P _{CK}	0.025	kW					
Other	items				<u> </u>	Г		
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m 3 /h	
Sound power level, indoors/outdoors	L_{w_A}	47/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	\boldsymbol{Q}_{HE}	2183	kWh	rate, outdoor heat exchanger	– NA		111 3 /11	
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	143	%	
Daily electricity consumption	Qelec	3.429	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	717	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: sat.eurofredgroup.com.				Name of the supplier: EUROFRED S.A.C/ Marqus de Sentr	nenat, 97 080)29 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.

