	(heat n			requirements neat pump combination heaters)				
Model(s): URBAN_AOWD_18	(пеат р	ump space i	- arcis and i	teat pump combination neaters)				
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	<u> </u>			
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	ηs	128	%	
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	4.0	kW					
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.03	_	
Tj = 2 ℃	Pdh	2.6	kW	Tr: 0 %	CODI	2.27		
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 2 ℃	COPd	3.27	_	
Tj = 7 ℃	Pdh	2.3	kW			4.20		
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 7 °C	COPd	4.30	_	
Tj = 12°C	Pdh	2.8	kW	T: _ 12°C	COD4	6.00		
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 12℃	COPd	6.00	_	
Tj = bivalent temperature	Pdh 4.0 kW		kW	Tj = bivalent temperature	COPd	2.03	_	
Tj = operation limit temperature	Pdh	3.8 kW		Tj = operation limit temperature	COPd	1.38	_	
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	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$	
Continuinte medical consider for booking	D 1 NA	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 mod	des other tha	n active mod	le	Supplementary heater				
Off mode	$P_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	1.2	kW	
Thermostat-off mode	$P_{\text{TO}}$	0.025	kW					
Standby mode	$P_{SB}$	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	$P_{\rm CK}$	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		NA	m 3 /h	
Annual energy consumption	$\boldsymbol{Q}_{HE}$	3152	kWh			11/21	111 5 /11	
		For	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	116	%	
Daily electricity consumption	Qelec	4.222	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption  Contact details:	AEC	885	kWh	Annual fuel consumption  Name of the supplier:	AFC	NA	GJ	
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<sup>(\*)</sup> 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.

				requirements				
	(heat p	ump space h	eaters and h	eat pump combination heaters)				
Model(s): URBAN_AOWD_18								
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				Colder climate condition				
Item	symbol	mbol value unit		Item	symbol	value	unit	
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	ηs	104	%	
Declared capacity for heating for part outdoor tem		or temperatur	e 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	2.4	kW	T. 7.%	CODI	1.02		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = − 7 °C	COPd	1.83	_	
Tj = 2 ℃	Pdh	2.1	kW	T: 2 %	CODI	2.07		
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 2 ℃	COPd	3.87	_	
Tj = 7 ℃	Pdh	2.5	kW	T: _ 7 °C	COD4	5.21		
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 7 °C	COPd	5.31	_	
Tj = 12℃	Pdh	2.9	kW	Ti: 10°0	COP 1	6.72		
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 12℃	COPd	6.73	_	
Tj = bivalent temperature	Pdh	3.1	kW	Tj = bivalent temperature	COPd	1.38	_	
Tj = operation limit temperature	Pdh	2.3 kW		Tj = operation limit temperature	COPd	1.10	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ} )$	Pdh	3.1	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$ )	COPd	1.38	-	
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$	
		1 337	Cycling interval efficiency	СОРсус	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	e	Supplementary heater				
Off mode	$P_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	1.7	kW	
Thermostat-off mode	$P_{\text{TO}}$	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	_	3200	m 3 /h	
Sound power level, indoors/outdoors	$L_{\text{WA}}$	47/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	$\boldsymbol{Q}_{\text{HE}}$	3701	kWh	rate, outdoor heat exchanger		IVA	111 3 / 11	
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	91	%	
Daily electricity consumption	Qelec	5.399	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1125	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: sat.eurofredgroup.com.				Name of the supplier: EUROFRED S.A.C/ Marqus de Sentr	menat, 97 080	)29 Barcelon		
sat.eurofredgroup.com.				EUROFRED S.A.C/ Marqus de Sentr	nenat, 97 080	129 Barcelon		

<sup>(\*)</sup> 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_18	(пеат р	ump space i	- arcis and i	teat pump combination neaters)				
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	<u> </u>			
Parameters declared for				Warmer climate condition				
Item	symbol	value	unit	Item	symbol value un		unit	
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	160	%	
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	-				
Degradation co-efficient (**)	Cdh	NA	-	Tj = − 7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	5.1	kW	T: 2 °C	CODI	2.14		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 ℃	COPd	2.14	_	
Tj = 7 ℃	Pdh	3.3	kW			2.40		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 7 ℃	COPd	3.49	_	
Tj = 12℃	Pdh	2.7	kW	Tj = 12℃	COPd	5.67		
Degradation co-efficient (**)	Cdh	0.95	_	1j - 12 C	COPa	5.67	_	
Tj = bivalent temperature	Pdh 5.1 kW		kW	Tj = bivalent temperature	COPd	2.14	_	
Tj = operation limit temperature	Pdh	5.1 kW		Tj = operation limit temperature	COPd	2.14	_	
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	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$	
Continuintement consider for booking	D 1 NA	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 mod	des other tha	n active mod	le	Supplementary heater				
Off mode	$P_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	$P_{\text{TO}}$	0.025	kW					
Standby mode	$P_{SB}$	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	$P_{\rm CK}$	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		NA	m 3 /h	
Annual energy consumption	$\boldsymbol{Q}_{HE}$	1643	kWh			- INA		
		For	heat pump co	mbination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	122	%	
Daily electricity consumption	Qelec	3.991	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	838	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: sat.eurofredgroup.com.				Name of the supplier: EUROFRED S.A.C/ Marqus de Senti	menat, 97 08	029 Barcelor	1	

<sup>(\*)</sup> 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_18	(пеат р	ump space n	- arcis and i	teat pump combination neaters)				
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	6	kW	Seasonal space heating energy efficiency	ηs	182	%	
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	2.81	_	
Tj = 2 ℃	Pdh	3.3	kW	Ti: 0.00	GOD 1	4.60		
Degradation co-efficient (**)	Cdh	0.96	-	Tj = 2 ℃	COPd	4.68	_	
Tj = 7 ℃	Pdh	2.6	kW			6.45		
Degradation co-efficient (**)	Cdh	0.94	-	Tj = 7 ℃	COPd	6.47	_	
Tj = 12℃	Pdh	2.8	kW	T: 12°C	COP 1	6.20		
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 12℃	COPd	6.39	_	
Tj = bivalent temperature	Pdh 5.3 kW		kW	Tj = bivalent temperature	COPd	2.81	_	
Tj = operation limit temperature	Pdh	4.2 kW		Tj = operation limit temperature	COPd	2.56	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ} )$	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	$^{\circ}$	
Continuinte medical consider for booking	D 1 NA	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 mod	des other tha	n active mod	le	Supplementary heater				
Off mode	$P_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	1.8	kW	
Thermostat-off mode	$P_{\text{TO}}$	0.025	kW					
Standby mode	$P_{SB}$	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	$P_{\text{CK}}$	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		NA	m 3 /h	
Annual energy consumption	$\boldsymbol{Q}_{HE}$	2685	kWh	rate, outdoor heat exchanger		11/21	111 3 /11	
		For 1	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	116	%	
Daily electricity consumption	Qelec	4.222	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption Contact details:	AEC	885	kWh	Annual fuel consumption	AFC	NA	GJ	
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<sup>(\*)</sup> 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_18	(псат р	ump space i	- and i	teat pump combination ileaters)				
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	ηs	145	%	
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	2.6	kW					
Degradation co-efficient (**)	Cdh	0.97	_	Tj = − 7 °C	COPd	2.69	_	
Tj = 2 ℃	Pdh	2.3	kW					
Degradation co-efficient (**)	Cdh	0.94	-	Tj = 2 ℃	COPd	5.34	_	
Tj = 7 ℃	Pdh	2.7	kW					
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 7 ℃	COPd	7.04	_	
Tj = 12°C	Pdh	2.6	kW			6.90		
Degradation co-efficient (**)	Cdh	0.93	-	Tj = 12℃	COPd		_	
Tj = bivalent temperature	Pdh 3.4 kW		kW	Tj = bivalent temperature	COPd	1.98	_	
Tj = operation limit temperature	Pdh	2.7 kW		Tj = operation limit temperature	COPd	1.58	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	3.4 kW		For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$ )	COPd	1.98	_	
Bivalent temperature	Tbiv	Tbiv -15 °C		For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$	
Civalina interval compaits for heating	D 1 NA	NIA	1-XX7	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	1.3	kW	
Thermostat-off mode	$P_{\scriptscriptstyle TO}$	0.025	kW					
Standby mode	$P_{\scriptscriptstyle SB}$	0.025	kW	Type of energy input	Electric			
Crankcase heater mode	$P_{\text{CK}}$	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		NA	m 3 /h	
Annual energy consumption	$Q_{\text{HE}}$	2674	kWh			INA	111.5/11	
		For	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	91	%	
Daily electricity consumption	Qelec	5.399	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1125	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: sat.eurofredgroup.com.				Name of the supplier: EUROFRED S.A.C/ Marqus de Sentr	menat, 97 08	029 Barcelon	l	

<sup>(\*)</sup> 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_18	(пеат р	ump space i	- arcis and i	teat pump combination neaters)				
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	<u> </u>			
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	ηs	232	%	
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	-				
Degradation co-efficient (**)	Cdh	NA	_	Tj = − 7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	5.2	kW	T: 0.00	GOD 1			
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPd	3.53	_	
Tj = 7 ℃	Pdh	3.3	kW			5.57		
Degradation co-efficient (**)	Cdh	0.96	_	Tj = 7 °C	COPd	5.57	_	
Tj = 12°C	Pdh	2.9	kW	T: _ 12°C	COD4	7.60		
Degradation co-efficient (**)	Cdh	0.93	-	Tj = 12℃	COPd	7.60	_	
Tj = bivalent temperature	Pdh 5.2 kW		kW	Tj = bivalent temperature	COPd	3.53	_	
Tj = operation limit temperature	Pdh	5.2 kW		Tj = operation limit temperature	COPd	3.53	_	
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	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$	
Civalina interval consoits for heating	D 1 NA	kW	Cycling interval efficiency	COPcyc	NA	_		
Cycling interval capacity for heating	Pcych	NA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mod	des other tha	n active mod	le	Supplementary heater				
Off mode	$P_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	$P_{\text{TO}}$	0.025	kW					
Standby mode	$P_{SB}$	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	$P_{\rm CK}$	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		NA	m 3 /h	
Annual energy consumption	$\boldsymbol{Q}_{HE}$	1136	kWh	rate, outdoor heat exchanger		NA .	111 3 711	
		For	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	122	%	
Daily electricity consumption	Qelec	3.991	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	838	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: sat.eurofredgroup.com.				Name of the supplier: EUROFRED S.A.C/ Marqus de Senti	menat, 97 08	029 Barcelon	l	

<sup>(\*)</sup> 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.

