Information requirements for heat pump space heaters and heat pump combination heaters - Commission Regulation (EU) No 813/2013

Indoor Model	Vitocal 222-A AWOT-M-E 221.A10
Outdoor Model	Vitocal 200-A AWO-M-E 201.A10
Air-to-water heat pump	yes
Water-to-water heat pump	по
Brine-to-water heat pump	no
Low-temperature heat pump	по
Equipped with a supplementary heater	yes
Heat pump combination heater	yes



Application	Low temperature			
Climate conditions	Average			
Rated heat output		Prated	9	kW
Declared capacity for heating for part load a temperature 20 °C and outdoor temperature				
T _i = - 7 °C		Pdh	8.2	kW
$T_i = +2 °C$		Pdh	5.3	kW
T _i = + 7 °C		Pdh	6.6	kW
T _i = + 12 °C		Pdh	6.6	kW
T _j = bivalent temperature		Pdh	8.2	kW
T _j = operation limit temperature		Pdh	7.5	kW
T _j = - 15 °C (if TOL < -20 °C)		Pdh		kW
Bivalent temperature		T _{biv}	-7	°C
Cycling interval capacity for heating		Pcych		kW
Degradation coefficient		Cdh	0.98	
Power consumption in modes other than ac	tive mode			
Off mode		P OFF	0.050	kW
Thermostat-off mode		P _{TO}	0.000	kW
Standby mode		P _{SB}	0.025	kW
Crankcase heater mode		P _{CK}	0.000	kW
Other items				
Capacity control			variable	
Sound power level, indoors/outdoors		L _{WA}	39/56	dB
Annual energy consumption		Q _{HE}	4295	kWh
For heat pump combination heater				
Declared load profile			L	
Daily electric consumption		Q _{elec}	4.234	kWh
Annual electricity consumption		AEC	904	kWh
Standby cylinder heat loss			1200	Wh/day

Seasonal space heating energy efficiency	η	176	%
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
$\begin{array}{l} T_j = -7 \ ^\circ C \\ T_j = +2 \ ^\circ C \\ T_j = +7 \ ^\circ C \\ T_j = +12 \ ^\circ C \\ T_j = bivalent temperature \\ T_j = operation limit temperature \\ T_j = -15 \ ^\circ C (if TOL < -20 \ ^\circ C) \\ Operation limit temperature \\ Cycling interval efficiency \\ \end{array}$	COP _d COP _d COP _d COP _d COP _d COP _d TOL	3.2 4.3 5.8 7.5 3.2 2.9 -10	ů Č
Heating water operating limit temperature Supplementary heater Rated heat output	Psup	<u>60</u> 9.0	-C
Type of energy input		Electric	
Rated air flow rate, outdoors		4500	m³/h
Water heating energy efficiency	η_{wh}	117	%
Daily fuel consumption Annual fuel consumption Reference hot water temperature DHW volume accounted for in test	Q _{fuel} AFC	52.5 290	kWh kWh ℃ I

Application	Medium temperature			
Climate conditions	Average			
Rated heat output		Prated	9	kW
Declared capacity for heating for part load a				
temperature 20 °C and outdoor temperature	: Tj			
T _i = - 7 °C		Pdh	8.3	kW
T _i = + 2 °C		Pdh	6.1	kW
T _j = + 7 °C		Pdh	5.4	kW
T _j = + 12 °C		Pdh	6.4	kW
T _j = bivalent temperature		Pdh	8.3	kW
T _j = operation limit temperature		Pdh	8.0	kW
T _i = - 15 °C (if TOL < -20 °C)		Pdh		kW
Bivalent temperature		T _{biv}	-7	°C
Cycling interval capacity for heating		Pcych		kW
Degradation coefficient		Cdh	0.98	
Power consumption in modes other than ac Off mode Thermostat-off mode Standby mode Crankcase heater mode	tive mode	Р _{ОFF} Р _{ТО} Р _{SB} Р _{CK}	0.050 0.000 0.025 0.000	kW kW kW kW
Other items				
Capacity control			variable	
Sound power level, indoors/outdoors		L _{WA}	39/56	dB
Annual energy consumption		Q _{HE}	5781	kWh
For heat pump combination heater				
Declared load profile		_	L	
Daily electric consumption		Q _{elec}	4.234	kWh
Annual electricity consumption		AEC	904	kWh
Standby cylinder heat loss			1200	Wh/day

Seasonal space heating energy efficiency	η _s	129	%
Declared coefficient of performance for part load at indoor			
temperature 20 °C and outdoor temperature Tj			
T _i = - 7 °C	COPd	2.3	
r _j = + 2 °C	COP	3.1	
T _i = + 7 °C	COPd	4.2	
T _i = + 12 °C	COPd	5.7	
T _j = bivalent temperature	COPd	2.3	
T _i = operation limit temperature	COPd	2.0	
T _j = - 15 °C (if TOL < -20 °C)	COPd		
Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COPcyc		
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output	Psup	9.0	kW
Type of energy input		Electric	
Rated air flow rate, outdoors		4500	m³/h
Water heating energy efficiency	η_{wh}	117	%
Daily fuel consumption	Q _{fuel}		kWh
Annual fuel consumption	AFC		kWh
Reference hot water temperature		52.5	°C
DHW volume accounted for in test		290	1

Annual fuel consumption Reference hot water temperature DHW volume accounted for in test

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