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

Indoor Unit Model	*Vitocal 111-S AWBT-M-E-AC 111.B08 F*
Outdoor Unit Model	*Vitocal 100-S ODU 230V B08*
Equipped with a supplementary heater	*yes*
Heat pump combination heater	*yes*

Application	*Low temperature*
Climate conditions	*Average*

Rated heat output	*Prated*	6.4	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
T_j = - 7 °C	*Pdh*	6.2	kW
T_j = + 2 °C	*Pdh*	4.3	kW
T_j = + 7 °C	*Pdh*	5.1	kW
T_j = + 12 °C	*Pdh*	6.0	kW
T_j = bivalent temperature	*Pdh*	5.9	kW
T_j = operation limit temperature	*Pdh*	5.0	kW
T_j = - 15 °C (if TOL < -20 °C)	*Pdh*	-	kW
Bivalent temperature	T_{biv}	-8	°C
Cycling interval capacity for heating	*Pcych*	-	kW
Degradation coefficient	*Cdh*	0.99	
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.015	kW
Thermostat-off mode	P_{TO}	0.000	kW
Standby mode	P_{SB}	0.000	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41/64	dB
Annual energy consumption	Q_{HE}	13206	kWh

Seasonal space heating energy efficiency	η_s	176	%
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
T_j = - 7 °C	COP_d	2.7	
T_j = + 2 °C	COP_d	4.3	
T_j = + 7 °C	COP_d	6.2	
T_j = + 12 °C	COP_d	8.9	
T_j = bivalent temperature	COP_d	2.6	
T_j = operation limit temperature	COP_d	2.2	
T_j = - 15 °C (if TOL < -20 °C)	COP_d	-	
Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COPcyc	-	
Heating water operating limit temperature	WTOL	55	°C
Supplementary heater			
Rated heat output	Psup	1.4	kW
Type of energy input		Electric	
Rated air flow rate, outdoors		-	m^3/h

For heat pump combination heater			
Declared load profile		XL	
Daily electric consumption	Q_{elec}	6519	kWh
Annual electricity consumption	*AEC*	1406	kWh
Standby cylinder heat loss		1990	Wh/day

Water heating energy efficiency	η_{wh}	125	%
Daily fuel consumption	Q_{fuel}	-	kWh
Annual fuel consumption	*AFC*	-	kWh
Reference hot water temperature		53.1	°C
DHW volume accounted for in test		290	l

Application	*Medium temperature*
Climate conditions	*Average*

Rated heat output	*Prated*	6.7	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
T_j = - 7 °C	*Pdh*	5.9	kW
T_j = + 2 °C	*Pdh*	3.6	kW
T_j = + 7 °C	*Pdh*	6.9	kW
T_j = + 12 °C	*Pdh*	6.7	kW
T_j = bivalent temperature	*Pdh*	5.9	kW
T_j = operation limit temperature	*Pdh*	4.7	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*	0.99	
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.015	kW
Thermostat-off mode	P_{TO}	0.000	kW
Standby mode	P_{SB}	0.000	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41/64	dB
Annual energy consumption	Q_{HE}	13788	kWh

Seasonal space heating energy efficiency	η_s	125%	%
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
T_j = - 7 °C	COP_d	2.0	
T_j = + 2 °C	COP_d	2.9	
T_j = + 7 °C	COP_d	4.9	
T_j = + 12 °C	COP_d	7.3	
T_j = bivalent temperature	COP_d	2.0	
T_j = operation limit temperature	COP_d	1.6	
T_j = - 15 °C (if TOL < -20 °C)	COP_d	-	
Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COPcyc	-	
Heating water operating limit temperature	WTOL	55	°C
Supplementary heater			
Rated heat output	Psup	2.0	kW
Type of energy input		Electric	
Rated air flow rate, outdoors		-	m^3/h

For heat pump combination heater			
Declared load profile		XL	
Daily electric consumption	Q_{elec}	6519	kWh
Annual electricity consumption	*AEC*	1406	kWh
Standby cylinder heat loss		1990	Wh/day

Water heating energy efficiency	η_{wh}	125%	%
Daily fuel consumption	Q_{fuel}	-	kWh
Annual fuel consumption	*AFC*	-	kWh
Reference hot water temperature		53.1	°C
DHW volume accounted for in test		290	l

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