

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

Indoor Unit Model	Vitocal 151-A AWOT-M-E-AC-AF 151.A13
Outdoor Unit Model	Vitocal 15X-A ODU 230V A13 AF
Equipped with a supplementary heater	yes
Heat pump combination heater	yes



Application	Low temperature
Climate conditions	Average

Rated heat output	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	11.0	kW
Tj = + 2 °C	Pdh	6.8	kW
Tj = + 7 °C	Pdh	5.9	kW
Tj = + 12 °C	Pdh	5.5	kW
Tj = bivalent temperature	Pdh	11.0	kW
Tj = operation limit temperature	Pdh	10.1	kW
Tj = - 15 °C (if TOL < -20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation coefficient	Cdh	1	
Power consumption in modes other than active mode			
Off mode	Poff	0.000	kW
Thermostat-off mode	Pto	0.014	kW
Standby mode	Psb	0.016	kW
Crankcase heater mode	Pck	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	LWA	40/56	dB
Annual energy consumption	QHE	5672	kWh

Seasonal space heating energy efficiency	ηs	178	%
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	3.0	
Tj = + 2 °C	COPd	4.3	
Tj = + 7 °C	COPd	6.1	
Tj = + 12 °C	COPd	7.4	
Tj = bivalent temperature	COPd	2.9	
Tj = operation limit temperature	COPd	2.7	
Tj = - 15 °C (if TOL < -20 °C)	COPd	-	
Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COPcyc	-	
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output	Psup	2.3	kW
Type of energy input		Electric	
Rated air flow rate, outdoors			
		4188	m³/h

For heat pump combination heater			
Declared load profile			
Daily electric consumption	Qelec	5788	kWh
Annual electricity consumption	AEC	1273	kWh
Standby cylinder heat loss		1200	Wh/day
Water heating energy efficiency			
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	kWh
Reference hot water temperature		52.5	°C
DHW volume accounted for in test		260	l

Application	Medium temperature
Climate conditions	Average

Rated heat output	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.7	kW
Tj = + 2 °C	Pdh	6.6	kW
Tj = + 7 °C	Pdh	5.7	kW
Tj = + 12 °C	Pdh	5.7	kW
Tj = bivalent temperature	Pdh	10.7	kW
Tj = operation limit temperature	Pdh	9.7	kW
Tj = - 15 °C (if TOL < -20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation coefficient	Cdh	1	
Power consumption in modes other than active mode			
Off mode	Poff	0.000	kW
Thermostat-off mode	Pto	0.014	kW
Standby mode	Psb	0.016	kW
Crankcase heater mode	Pck	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	LWA	40/56	dB
Annual energy consumption	QHE	6944	kWh

Seasonal space heating energy efficiency	ηs	141%	%
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	2.3	
Tj = + 2 °C	COPd	3.4	
Tj = + 7 °C	COPd	4.8	
Tj = + 12 °C	COPd	6.3	
Tj = bivalent temperature	COPd	2.3	
Tj = operation limit temperature	COPd	2.1	
Tj = - 15 °C (if TOL < -20 °C)	COPd	-	
Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COPcyc	-	
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output	Psup	2.3	kW
Type of energy input		Electric	
Rated air flow rate, outdoors			
		4188	m³/h

For heat pump combination heater			
Declared load profile			
Daily electric consumption	Qelec	5788	kWh
Annual electricity consumption	AEC	1273	kWh
Standby cylinder heat loss		1200	Wh/day
Water heating energy efficiency			
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	kWh
Reference hot water temperature		52.5	°C
DHW volume accounted for in test		260	l