

Indoor Unit Model	Vitocal 151-A AWOT-M-E-AC-AF 151.A08
Outdoor Unit Model	Vitocal 15X-A ODU 230V A06 AF
Equipped with a supplementary heater	yes
Heat pump combination heater	yes



Application	Low temperature
Climate conditions	Average

Rated heat output	Prated	5.46	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	4.8	kW
Tj = + 2 °C	Pdh	2.9	kW
Tj = + 7 °C	Pdh	2.6	kW
Tj = + 12 °C	Pdh	2.3	kW
Tj = bivalent temperature	Pdh	4.8	kW
Tj = operation limit temperature	Pdh	4.4	kW
Tj = - 15 °C (if TOL < -20 °C)	Pdh	-	kW
Bivalent temperature	T _{biv}	-7	°C
Cycling interval capacity for heating	P _{cy}	-	kW
Degradation coefficient	Cdh	1.0	
Power consumption in modes other than active mode			
Off mode	P _{OFF}	0.000	kW
Thermostat-off mode	P _{TO}	0.014	kW
Standby mode	P _{SB}	0.016	kW
Crankcase heater mode	P _{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/51	dB
Annual energy consumption	Q _{HE}	2461	kWh

Seasonal space heating energy efficiency	η _s	180%	%
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COP _d	3.0	
Tj = + 2 °C	COP _d	4.6	
Tj = + 7 °C	COP _d	6.0	
Tj = + 12 °C	COP _d	7.6	
Tj = bivalent temperature	COP _d	3.0	
Tj = operation limit temperature	COP _d	2.7	
Tj = - 15 °C (if TOL < -20 °C)	COP _d	-	
Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP _{cy}	-	
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output	P _{sup}	1.1	kW
Type of energy input		Electric	
Rated air flow rate, outdoors			
		1954	m ³ /h

For heat pump combination heater			
Declared load profile			
Daily electric consumption	Q _{elec}	XL	kWh
Annual electricity consumption	AEC	7973	kWh
Standby cylinder heat loss		1754	Wh/day
		1200	Wh/day
Water heating energy efficiency			
Daily fuel consumption	η _{wh}	102	%
Annual fuel consumption	Q _{fuel}	-	kWh
Reference hot water temperature	AFC	-	kWh
DHW volume accounted for in test		53.2	°C
		263	l

Application	Medium temperature
Climate conditions	Average

Rated heat output	Prated	5.14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	4.6	kW
Tj = + 2 °C	Pdh	2.8	kW
Tj = + 7 °C	Pdh	2.5	kW
Tj = + 12 °C	Pdh	2.5	kW
Tj = bivalent temperature	Pdh	4.6	kW
Tj = operation limit temperature	Pdh	4.1	kW
Tj = - 15 °C (if TOL < -20 °C)	Pdh	-	kW
Bivalent temperature	T _{biv}	-7	°C
Cycling interval capacity for heating	P _{cy}	-	kW
Degradation coefficient	Cdh	1.0	
Power consumption in modes other than active mode			
Off mode	P _{OFF}	0.000	kW
Thermostat-off mode	P _{TO}	0.014	kW
Standby mode	P _{SB}	0.016	kW
Crankcase heater mode	P _{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/51	dB
Annual energy consumption	Q _{HE}	2947	kWh

Seasonal space heating energy efficiency	η _s	141%	%
Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COP _d	2.3	
Tj = + 2 °C	COP _d	3.6	
Tj = + 7 °C	COP _d	4.7	
Tj = + 12 °C	COP _d	6.5	
Tj = bivalent temperature	COP _d	2.3	
Tj = operation limit temperature	COP _d	2.1	
Tj = - 15 °C (if TOL < -20 °C)	COP _d	-	
Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP _{cy}	-	
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output	P _{sup}	1.04	kW
Type of energy input		Electric	
Rated air flow rate, outdoors			
		1954	m ³ /h

For heat pump combination heater			
Declared load profile			
Daily electric consumption	Q _{elec}	XL	kWh
Annual electricity consumption	AEC	7973	kWh
Standby cylinder heat loss		1754	Wh/day
		1200	Wh/day
Water heating energy efficiency			
Daily fuel consumption	η _{wh}	102	%
Annual fuel consumption	Q _{fuel}	-	kWh
Reference hot water temperature	AFC	-	kWh
DHW volume accounted for in test		53.2	°C
		263	l