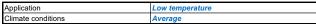
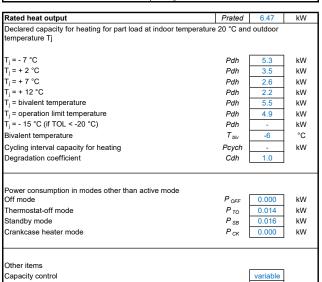
Indoor Unit Model	Vitocal 151-A AWOT-M-E-AC-AF 151.A08
Outdoor Unit Model	Vitocal 15X-A ODU 230V A08 AF
Equipped with a supplementary heater	yes
Heat pump combination heater	yes







Seasonal space heating energy efficiency	η <sub>s</sub> 17	75%	%
Declared coefficient of performance for part load at indoor t	emperature 20 °C a	nd outdo	oor
temperature Tj			
T <sub>j</sub> = - 7 °C		3.0	
T <sub>j</sub> = + 2 °C		1.2	
T <sub>j</sub> = + 7 °C		5.2	
T <sub>j</sub> = + 12 °C		7.6	
T <sub>j</sub> = bivalent temperature	, L	3.1	
T <sub>j</sub> = operation limit temperature		2.7	
T <sub>j</sub> = - 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 1	1.6	kW
Type of energy input	Ele	ectric	
Rated air flow rate, outdoors	2	125	m³/h

For heat pump combination heater							
Declared load profile		XL		Water heating energy efficiency	$\eta_{wh}$	102	%
Daily electric consumption	Q elec	7973	kWh	Daily fuel consumption	Q fuel	-	kWh
Annual electricity consumption	AEC	1754	kWh	Annual fuel consumption	AFC	_	kWh
Standby cylinder heat loss		1200	Wh/day	Reference hot water temperature		53.2	°C
				DHW volume accounted for in test		263	1

dB

kWh

40/51

 $Q_{HE}$ 

3012

Application	Medium temperature
Climate conditions	Average

Sound power level, indoors/outdoors

Annual energy consumption

Rated heat output	Prated	6.2	kW
Declared capacity for heating for part load at indoor temperatur temperature Tj	re 20 °C an	d outdoor	
T <sub>j</sub> = - 7 °C	Pdh	5.1	kW
T <sub>j</sub> = + 2 °C	Pdh	3.5	kW
T <sub>j</sub> = + 7 °C	Pdh	2.5	kW
T <sub>j</sub> = + 12 °C	Pdh	2.5	kW
T <sub>j</sub> = bivalent temperature	Pdh	5.2	kW
T <sub>j</sub> = operation limit temperature	Pdh	4.5	kW
T <sub>j</sub> = - 15 °C (if TOL < -20 °C)	Pdh	-	kW
Bivalent temperature	$T_{biv}$	-6	°C
Cycling interval capacity for heating	Pcych	-	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 <sub>TO</sub>	0.014	kW
Standby mode	P <sub>SB</sub>	0.016	kW
Crankcase heater mode	PCK	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/51	dB
Annual energy consumption	$Q_{HE}$	3648	kWh

Seasonal space heating energy efficiency	η <sub>s</sub>	137%	%
Declared coefficient of performance for part load at indoor temperature Tj	erature 20	°C and outo	door
$T_j = -7$ °C $T_j = +2$ °C $T_j = +7$ °C $T_j = +12$ °C $T_j = bivalent temperature$ $T_j = -0.00$ (if TOL < -20 °C) Operation limit temperature Cycling interval efficiency	COP <sub>d</sub> TOL	2.3 3.4 4.8 6.6 2.4 2.0 - -10	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater Rated heat output Type of energy input	Psup	1.7	kW
Rated air flow rate, outdoors		2125	m³/h

For heat pump combination heater							_
Declared load profile		XL		Water heating energy efficiency	$\eta_{wh}$	102	%
Daily electric consumption	Q elec	7973	kWh	Daily fuel consumption	Q fuel	-	kWh
Annual electricity consumption	AEC	1754	kWh	Annual fuel consumption	AFC	-	kWh
Standby cylinder heat loss		1200	Wh/day	Reference hot water temperature		53.2	°C
				DHW volume accounted for in test		263	1