Product fiche concerning the COMMISSION DELEGATED REGULATIONS

(EU) No 811/2013 of 18 February 2013
(EU) No 813/2013 of 2 August 2013

Blue Flame Oil Boilers

VortexBlue Kitchen/Kitchen System	Symbols	Unit	VTXBF21	VTXBF26	VTXBF36	VTXSBF21	VTXSBF26	VTXSBF36
Condensing boiler			Yes	Yes	Yes	Yes	Yes	Yes
Low temperature boiler			No	No	No	No	No	No
B1 Boiler			No	No	No	No	No	No
Combination heater			No	No	No	No	No	No
Rated heat output	*Prated*	kW	21	26	36	21	26	36
Useful heat output								
At rated heat output and high temp regime	P_4	kW	21	26	36	21	26	36
At 30% of rated heat output and low temp regime	P_1	kW	6.3	7.8	10.8	6.3	7.8	10.8
Auxiliary electricity consumption								
At Full load	*Elmax*	kW	0.158	0.130	0.150	0.158	0.130	0.150
At part load	*Elmin*	kW	0.052	0.039	0.049	0.052	0.039	0.049
In standby mode	P_{SB}	kW	0	0	0	0	0	0
Useful efficiency								
ErP Energy Label Class			A	A	A	A	A	A
Seasonal space heating energy efficiency	ηs	%	90.81	91.71	94.56	90.81	91.71	94.56
At rated heat output and high temperature regime	η_4	%	88.9	93.6	95.1	88.9	93.6	95.1
At 30% of rated heat output and low temperature regime	η_1	%	97.1	96.4	99.3	97.1	96.4	99.3
Other items								
Standby heat loss	P_{stby}	kW	0.23	0.264	0.293	0.23	0.264	0.293
Ignition burner power consumption	P_{ign}	kW	0	0	0	0	0	0
Annual energy consumption	Q_{HE}	kWh	-	-	-	-	-	-
Sound power level, indoors	L_{WA}	db	49.6	50.6	53.7	49.6	50.6	53.7
Emissions of nitrogen oxides	*NOx*	mg/ kWh	73	73	74	73	73	74
Emissions Class			3	3	3	3	3	3
Daily fuel consumption	Q_{fuel}	kWh	-	-	-	-	-	-
Annual fuel consumption	*AFC*	GJ	-	-	-	-	-	-

Grant Engineering (UK) Ltd
Hopton House, Hopton Industrial Estate,
Devizes, Wiltshire, SN10 2EU
t: +44 (0)1380 736920 f: +44 (0)1380 736991
e: info@grantuk.com w: www.grantuk.com

VortexBlue External Modules	Symbols	Unit	VTXBFOM21	VTXBFOM26	VTXBFOM36
Condensing boiler			Yes	Yes	Yes
Low temperature boiler			No	No	No
B1 Boiler			No	No	No
Combination heater			No	No	No
Rated heat output	*Prated*	kW	21	26	36
Useful heat output					
At rated heat output and high temp regime	P_4	kW	21	26	36
At 30% of rated heat output and low temp regime	P_1	kW	6.3	7.8	10.8
Auxiliary electricity consumption					
At Full load	*elmax*	kW	0.158	0.130	0.150
At part load	*elmin*	kW	0.052	0.039	0.049
In standby mode	P_{SB}	kW	0	0	0
Useful efficiency					
ErP Energy Label Class			A	A	A
Seasonal space heating energy efficiency	ηs	%	90.81	91.71	94.56
At rated heat output and high temperature regime	η_4	%	88.9	93.6	95.1
At 30% of rated heat output and low temperature regime	η_1	%	97.1	96.4	99.3
Other items					
Standby heat loss	P_{stby}	kW	0.23	0.264	0.293
Ignition burner power consumption	P_{ign}	kW	0	0	0
Annual energy consumption	Q_{HE}	kWh	-	-	-
Sound power level, indoors	L_{WA}	db	49.6	50.6	53.7
Emissions of nitrogen oxides	*NOx*	mg/ kWh	73	73	74
Emissions Class			3	3	3
Daily fuel consumption	Q_{fuel}	kWh	-	-	-
Annual fuel consumption	*AFC*	GJ	-	-	-

VortexBlue Combi Internal/External	Symbols	Unit	VTXBFCOMBI21	VTXBFCOMBI26	VTXBFCOMBI36	VTXBFOMCOM21	VTXBFOMCOM26	VTXBFOMCOM36
Condensing boiler			Yes	Yes	Yes	Yes	Yes	Yes
Low temperature boiler			No	No	No	No	No	No
B1 Boiler			No	No	No	No	No	No
Combination heater			Yes	Yes	Yes	Yes	Yes	Yes
Rated heat output	*Prated*	kW	21	26	36	21	26	36
Useful heat output								
At rated heat output and high temperature regime	P_4	kW	21	26	36	21	26	36
At 30% of rated heat output and low temperature regime	P_1	kW	6.3	7.8	10.8	6.3	7.8	10.8
Auxiliary electricity consumption								
At Full load	*elmax*	kW	0.158	0.13	0.15	0.158	0.13	0.15
At part load	*elmin*	kW	0.052	0.052	0.039	0.052	0.052	0.039
In standby mode	P_{SB}	kW	0.009	0.009	0.009	0.009	0.009	0.009
Declared load profile			XL	XL	XL	XL	XL	XL
Daily electricity consumption	Q_{elec}		0.293	0.23	0.205	0.293	0.23	0.205
Annual electricity consumption	*AEC*		65.4	50.5	45.2	65.4	50.5	45.2
Useful efficiency								
ErP Energy Label Class			A	A	A	A	A	A
Seasonal space heating energy efficiency	ηs	%	90.81	91.71	94.56	90.81	91.71	94.56
At rated heat output and high temperature regime	η_4	%	88.9	93.6	95.1	88.9	93.6	95.1
At 30% of rated heat output and low temperature regime	η_1	%	97.1	96.4	99.3	97.1	96.4	99.3
Other items								
Standby heat loss	P_{stby}	kW	0.23	0.264	0.522	0.23	0.264	0.522
Ignition burner power consumption	P_{ign}	kW	0	0	0	0	0	0
Annual energy consumption	Q_{HE}	kWh	-	-	-	-	-	-
Sound power level, indoors	L_{WA}	dB	49.6	50.6	53.7	49.6	50.6	53.7
Emissions of nitrogen oxides	*NOx*	mg/ kWh	73	73	74	73	73	74
Emissions Class			3	3	3	3	3	3
ErP Water Heating Energy Label Class			B	B	B	B	B	B
Water heating efficiency	η_{wh}	%	68.23	62.6	60.38	68.23	62.6	60.38
Daily fuel consumption	Q_{fuel}	kWh	0.098	0.023	0.112	0.098	0.023	0.112
Annual fuel consumption	*AFC*	GJ	21.556	26.673	24.67	21.556	26.673	24.67

End of Life Information

General

Grant oil boilers incorporate components manufactured from a variety of different materials. The majority of these materials can be recycled whilst the smaller remainder cannot.
Materials that cannot be recycled must be disposed of according to local regulations using appropriate waste collection and/or disposal services.

Disassembly

There is little risk to those involved in the disassembly of this product. Please refer to and follow the Health and Safety Information given in the Installation & Servicing Instructions provided with the boiler.
For guidance on the disassembly of the boiler refer to the information given in the Servicing section of the Installation & Servicing Instructions provided with the boiler.

Recycling

Many of the materials used in Grant oil boilers can be recycled, these are listed in the table below:

Component	Material
Outer casing panels	Mild steel (polyester powder coated)
Primary heat exchanger and baffles	Mild steel
Secondary heat exchanger	Stainless steel
Secondary heat exchanger spirals	Aluminium alloy
Pipework	Copper
Burner body/flange	Aluminium alloy
Burner oil pump	Aluminium alloy/steel
Riello oil burner cover	Plastic
Electrical wiring	Copper/plastic
Thermostats	Copper/plastic
Printed Circuit boards	Copper/plastic

Disposal

All materials other than those listed above must be disposed of responsibly as general waste.

Neil Sawers
Technical Manager