

## RD037K OIL BURNER SETTINGS -RIELLO RDB -LOW NOx -HVO 100%

16/11/2021

Rev; 1

UK Boiler 3 digit reference codes	Burner type	Riello code	Burner reference code (Data label)	Boiler model (burner type)	Heat output		Nozzle	Oil pressure (bar)	Smoke No.	Burner head type	Recir. Tube	Burner Head setting	Diffuser setting dist. A mm (see figure 1 below)	Diffuser setting dist. D mm (see figure 2 below)	Air Box	Air Disc setting	Air plate	Fuel flow rate (kg/h)	Flue gas temperature (°C)	CO2 (%)	Flue gas volumetric flow rate
					KW	Btu/h															
746, 753	Riello	20147321	RDB2.2-BX-E15/21	Vortex 15-21 Utility, & Module.	15	51,200	0.40/80° ES	9.0	0-1	BX 500	n/a	N/A	N/A	12	1	B	20081612	1.34	65-70	12.5	16.0 m³/hr
					18	61,400	0.40/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	13	1	B	20081612	1.55	70-75	12.5	20.0 m³/hr
					21	71,600*	0.50/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	14	1	C	20081612	1.81	75-80	12.5	23.0 m³/hr
740, 743	Riello	20147321	RDB2.2-BX-E15/21	Vortex Combi 21e & Outdoor Vortex Combi 21e,	21	71,600*	0.50/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	14	1	C	20081612	1.81	75-80	12.5	23.0 m³/hr
747, 750, 754	Riello	20094977	RDB2.2-BX-V15-26	Vortex 15-26 Utility, Boilerhouse, System & Module	15	51,200	0.40/80° ES	9.0	0-1	BX 500	n/a	N/A	N/A	12	1	B	20081612	1.34	60-65	12.5	16.0 m³/hr
					21	71,600*	0.50/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	13	1	C	20081612	1.81	65-70	12.5	23.0 m³/hr
					26	88,700	0.60/80° ES	12.5	0-1	BX 700	n/a	N/A	N/A	15	1	N/A	20081612	2.21	75-80	12.5	28.5 m³/hr
741, 744	Riello	20147322	RDB2.2-BX-VC-26	Vortex Combi 26e & Outdoor Vortex Combi 26e	26	88,700	0.60/80° ES	12.5	0-1	BX 700	n/a	N/A	N/A	15	1	N/A	20081612	2.21	75-80	12.5	28.5 m³/hr
781	Riello	20147322	RDB2.2-BX-VC-26	Vortex Combi XS	26	88,700	0.60/80° ES	12.5	0-1	BX 700	n/a	N/A	N/A	15	1	N/A	20081612	2.21	75-80	12.5	28.5 m³/hr
748, 751 755	Riello	20109931	RDB2.2-BX-V26/36	Vortex 26-36 Utility, Boilerhouse, System & Module	26	88,700	0.60/80° ES	12.5	0-1	BX 700	n/a	N/A	N/A	15	1	N/A	20081612	2.21	65-70	12.5	28.5 m³/hr
					31	105,700*	0.75/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	15.5	1	N/A	20081612	2.69	70-75	12.5	34.5 m³/hr
					36	122,800	0.85/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	16	1	N/A	20081612	2.99	75-80	12.5	39.5 m³/hr
742, 745	Riello	20147350	RDB 2.2-BX-VC36	Vortex Combi 36e & Outdoor Vortex Combi 36e	36	122,800	0.85/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	16	1	N/A	20081612	2.99	75-80	12.5	39.5 m³/hr
749, 752, 756, 780,	Riello	20110334	RDB2.2-BX-V36/46	Vortex 36-46 Utility, Boilerhouse, System & Module	36	122,800	0.85/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	16	2	N/A	20081612	2.99	75-80	12.5	39.5 m³/hr
					41	140,000*	0.85/80° ES	14.5	0-1	BX 700	n/a	N/A	N/A	16.5	2	N/A	20081612	3.50	80-85	12.5	45.5 m³/hr
					46	157,000	1.10/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	17	2	N/A	20081612	3.95	85-90	12.5	51.0 m³/hr
738,160, 169	Riello	3748920	RDB3.2 VORT 58	Vortex 46-58 Utility, Module & Boiler house	46	157,000	1.25/80°S	8.0	0-1	GIB	n/a	0	N/A	N/A	2	N/A	N/A	3.91	75-80	12.5	51.0 m³/hr
					52	177,500*	1.35/80°S	9.5	0-1	GIB	n/a	0	N/A	N/A	2	N/A	N/A	4.43	75-80	12.5	58.5 m³/hr
					58	197,900	1.65/80°S	8.0	0-1	GIB	n/a	0	N/A	N/A	2	N/A	N/A	4.96	75-80	12.5	66.0 m³/hr
739, 161, 170	Riello	3748921	RDB3.2 VORT 70	Vortex 58-70 Utility, Module & Boiler house	58	197,900	1.35/45°H	10.0	0-1	GIB	n/a	0	N/A	N/A	2	N/A	20135303	4.97	75-80	12.5	66.0 m³/hr
					64	218,300*	1.50/45°H	10.5	0-1	GIB	n/a	2	N/A	N/A	2	N/A	20135303	5.45	75-80	12.5	72.5 m³/hr
					70	238,800	2.00/45°S	7.0	0-1	GIB	n/a	2	N/A	N/A	2	N/A	20135303	5.97	75-80	12.5	78.5 m³/hr
757, 760, 771, 774, 777	Riello	20147321	RDB2.2-BX-E15/21	Vortex ECO Condensing Utility, System, Module, Module System & Boiler house	15	51,180	0.40/80° ES	9.0	0-1	BX 500	n/a	N/A	N/A	11	1	B	20081612	1.34	70-75	12.5	16.0 m³/hr
					18	61,400	0.40/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	12	1	B	20081612	1.55	75-80	12.5	20.0 m³/hr
					21	71,600*	0.50/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	13	1	C	20081612	1.81	80-85	12.5	23.0 m³/hr
758, 761, 772, 775, 778	Riello	20147346	RDB2.2-BX-E21/26	Vortex ECO Condensing Utility, System, Module, Module System & Boiler house	21	71,600	0.50/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	13	1	C	20081612	1.81	80-85	12.5	23.0 m³/hr
					23.5	80,200*	0.50/80 ES	15.0	0-1	BX 700	n/a	N/A	N/A	14	1	C	20081612	2.01	85-90	12.5	26.0 m³/hr
					26	88,700	0.60/80 °ES	12.5	0-1	BX 700	n/a	N/A	N/A	15	1	N/A	20081612	2.21	90-95	12.5	28.5 m³/hr
759, 762, 773, 776, 779	Riello	20109931	RDB2.2-BX-V26/36	Vortex ECO Condensing Utility, System, Module, Module System & Boiler house	26	88,700	0.60/80 ES	12.5	0-1	BX 700	n/a	N/A	N/A	15	1	N/A	20081612	2.24	75-80	12.5	28.5 m³/hr
					31	105,700*	0.75/80 ES	12.0	0-1	BX 700	n/a	N/A	N/A	17	1	N/A	20081612	2.64	85-90	12.5	34.5 m³/hr
					35	119,400	0.76/80°ES	14.0	0-1	BX 700	n/a	N/A	N/A	19	1	N/A	20081612	2.96	90-95	12.5	39.0 m³/hr
N/A	Riello	20147321	RDB2.2-BX-E15/21	VortexAir (Yellow flame) BX 15-21	15	51,200	0.40/80° ES	9.0	0-1	BX 500	n/a	N/A	N/A	12	1	B	20081612	1.34	65-70	12.5	16.0 m³/hr
					18	61,400	0.40/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	13	1	B	20081612	1.55	70-75	12.5	20.0 m³/hr
					21	71,600*	0.50/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	13	1	C	20081612	1.81	75-80	12.5	23.0 m³/hr
N/A	Riello	20147322	RDB2.2-BX-VC-26	VortexAir (Yellow flame) BX 21-26	21	71,600*	0.50/80° ES	12.0	0-1	BX 700	n/a	N/A	N/A	13	1	C	20081612	1.81	75-80	12.5	23.0 m³/hr
					23.5	80,200*	0.50/80° ES	15.0	0-1	BX 700	n/a	N/A	N/A	14	1	C	20081612	2.01	85-90	12.5	26.0 m³/hr
					26	88,700	0.60/80° ES	12.5	0-1	BX 700	n/a	N/A	N/A	15	1	N/A	20081612	2.21	75-80	12.5	28.5 m³/hr