

## RD037L OIL BURNER SETTINGS -RIELLO RDB -YELLOW FLAME ( NOT LOW NOx BURNERS ) -HVO 100%

22/09/2021

Rev; 0

| 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 | Diffuser setting | 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    |             |                    |           |                  |             |                     |                  |                  |         |                  |           |                       |                           |         |                               |
| 165, 156                          | Riello      | 3514503     | RDB2.2 VORT 21                     | Vortex 15-21 Utility, & Module.   | 15          | 51,200   | 0.40/60° ES | 10.0               | 0-1       | T1               | N/A         | FIXED               | FIXED            | N/A              | 1       | B                | 3020263   | 1.32                  | 65-70                     | 12.0    | 16.0 m³/hr                    |
|                                   |             |             |                                    |   | 18          | 61,400   | 0.40/60° ES | 12.5               | 0-1       | T1               | N/A         | FIXED               | FIXED            | N/A              | 1       | B                | 3020263   | 1.57                  | 70-75                     | 12.5    | 20.0 m³/hr                    |
|                                   |             |             |                                    |   | 21          | 71,600*  | 0.45/60° ES | 12.5               | 0-1       | T2               | N/A         | FIXED               | FIXED            | N/A              | 1       | C                | 3020263   | 1.81                  | 75-80                     | 12.5    | 23.0 m³/hr                    |
| 183, 186                          | Riello      | 3514503     | RDB 2.2 VORT 21                    | Vortex Combi 21e & Outdoor Vortex Combi 21e,                                | 21          | 71,600*  | 0.45/60° ES | 12.5               | 0-1       | T2               | N/A         | FIXED               | FIXED            | N/A              | 1       | C                | 3020263   | 1.81                  | 75-80                     | 12.5    | 23.0 m³/hr                    |
| 166, 171, 157                     | Riello      | 3748368     | RDB 1 VORT-23                      | Vortex 15-26 Utility, Boilerhouse, System & Module                          | 15          | 51,200   | 0.40/60° ES | 10.0               | 0-1       | T1               | N/A         | FIXED               | FIXED            | N/A              | 1       | B                | 3020263   | 1.32                  | 60-65                     | 12.5    | 16.0 m³/hr                    |
|                                   |             |             |                                    |   | 21          | 71,600   | 0.40/60° ES | 12.5               | 0-1       | T1               | N/A         | FIXED               | FIXED            | N/A              | 1       | C                | 3020263   | 1.81                  | 65-70                     | 12.5    | 22.0 m³/hr                    |
|                                   |             |             |                                    |   | 23          | 78,500*  | 0.65/60° ES | 9.5                | 0-1       | T2               | N/A         | FIXED               | FIXED            | N/A              | 1       | N/A              | 3020263   | 1.97                  | 65-70                     | 12.5    | 25.0 m³/hr                    |
|                                   |             |             |                                    |   | 26          | 88,700   | 0.65/60° ES | 11.5               | 0-1       | T2               | N/A         | FIXED               | FIXED            | N/A              | 1       | N/A              | 3020263   | 2.21                  | 75-80                     | 12.5    | 28.5 m³/hr                    |
| 184, 187                          | Riello      | 3513108     | RDB1 VCOM 26                       | Vortex Combi 26e & Outdoor Vortex Combi 26e                                 | 26          | 88,700*  | 0.65/60° ES | 11.5               | 0-1       | T2               | N/A         | FIXED               | FIXED            | N/A              | 1       | N/A              | 3020263   | 2.21                  | 75-80                     | 12.5    | 28.5 m³/hr                    |
| 716                               | Riello      | 20108353    | RDB2.2COMBIXS                      | Vortex Combi XS   | 26          | 88,700*  | 0.65/60° ES | 11.5               | 0-1       | T2               | N/A         | FIXED               | FIXED            | N/A              | 1       | N/A              | 3020263   | 2.21                  | 75-80                     | 12.5    | 28.5 m³/hr                    |
| 167, 172, 158                     | Riello      | 3513610     | RDBVORT-36                         | Vortex 26-36 Utility, Boilerhouse, System & Module                          | 26          | 88,700   | 0.65/60° ES | 11.5               | 0-1       | T3               | N/A         | FIXED               | FIXED            | N/A              | 1       | N/A              | 3020263   | 2.21                  | 65-70                     | 12.5    | 28.5 m³/hr                    |
|                                   |             |             |                                    |   | 31          | 105,700* | 0.75/60° ES | 12.0               | 0-1       | T3               | N/A         | FIXED               | FIXED            | N/A              | 1       | N/A              | 3020263   | 2.66                  | 70-75                     | 12.5    | 34.5 m³/hr                    |
|                                   |             |             |                                    |   | 36          | 122,800  | 0.85/60° ES | 12.0               | 0-1       | T5               | N/A         | FIXED               | FIXED            | N/A              | 1       | N/A              | 3020263   | 3.07                  | 75-80                     | 12.5    | 39.5 m³/hr                    |
| 185, 188                          | Riello      | 3514502     | RDB2.2 VCOM 36                     | Vortex Combi 36e & Outdoor Vortex Combi 36e                                 | 36          | 122,800* | 0.85/60° ES | 12.0               | 0-1       | T5               | N/A         | FIXED               | FIXED            | N/A              | 1       | N/A              | 3020263   | 3.07                  | 75-80                     | 12.5    | 39.5 m³/hr                    |
| 168, 173, 159, 737,               | Riello      | 3514501     | RDB 2.2 VORT 46                    | Vortex 36-46 Utility, Boiler house, System & Module                         | 36          | 122,800  | 0.85/60° ES | 12.0               | 0-1       | T5               | N/A         | FIXED               | FIXED            | N/A              | 2       | N/A              | 20026387  | 3.07                  | 75-80                     | 12.5    | 39.5 m³/hr                    |
|                                   |             |             |                                    |   | 41          | 140,000* | 0.85/60° ES | 14.5               | 0-1       | T5               | N/A         | FIXED               | FIXED            | N/A              | 2       | N/A              | 20026387  | 3.50                  | 80-85                     | 12.5    | 45.5 m³/hr                    |
|                                   |             |             |                                    |   | 46          | 157,000  | 1.00/60° ES | 14.5               | 0-1       | T5               | N/A         | FIXED               | FIXED            | N/A              | 2       | N/A              | 20026387  | 3.88                  | 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              | N/A     | N/A              | N/A       | 3.92                  | 75-80                     | 12.0    | 51.0 m³/hr                    |
|                                   |             |             |                                    |   | 52          | 177,500* | 1.35 80° S  | 9.5                | 0-1       | GIB              | n/a         | 0                   | N/A              | N/A              | N/A     | N/A              | N/A       | 4.43                  | 75-80                     | 12.0    | 58.5 m³/hr                    |
|                                   |             |             |                                    |   | 58          | 197,900  | 1.65 80°S   | 8.0                | 0-1       | GIB              | n/a         | 0                   | N/A              | N/A              | N/A     | N/A              | N/A       | 4.94                  | 75-80                     | 12.0    | 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              | N/A     | N/A              | 2881571   | 4.97                  | 75-80                     | 12.0    | 66.0 m³/hr                    |
|                                   |             |             |                                    |   | 64          | 218,300* | 1.50 45°H   | 10.5               | 0-1       | GIB              | n/a         | 2                   | N/A              | N/A              | N/A     | N/A              | 2881571   | 5.49                  | 75-80                     | 12.0    | 72.5 m³/hr                    |
|                                   |             |             |                                    |   | 70          | 238,800  | 2.00 45°S   | 7.0                | 0-1       | GIB              | n/a         | 2                   | N/A              | N/A              | N/A     | N/A              | 2881571   | 6.00                  | 75-80                     | 12.0    | 78.5 m³/hr                    |
| 135, 138, 190, 193, 734           | Riello      | 3514104     | RDB 2.2 EFCOND 50-70               | Vortex ECO Condensing Utility, System, Module, Module System & Boiler house | 15          | 51,200   | 0.40 60 ES  | 10.0               | 0-1       | T1               | n/a         | N/A                 | N/A              | N/A              | 1       | B                | 3020263   | 1.30                  | 70-75                     | 12.0    | 16.0 m³/hr                    |
|                                   |             |             |                                    |   | 18          | 61,400   | 0.40 60 ES  | 12.5               | 0-1       | T1               | n/a         | N/A                 | N/A              | N/A              | 1       | B                | 3020263   | 1.55                  | 75-80                     | 12.5    | 20.0 m³/hr                    |
|                                   |             |             |                                    |   | 21          | 71,600*  | 0.45 60 ES  | 12.5               | 0-1       | T1               | n/a         | N/A                 | N/A              | N/A              | 1       | C                | 3020263   | 1.80                  | 80-85                     | 12.5    | 23.0 m³/hr                    |
| 136, 139, 191, 194, 735           | Riello      | 3514204     | RDB 2.2 EFCOND 50-90               | Vortex ECO Condensing Utility, System, Module, Module System & Boiler house | 21          | 71,600   | 0.45 60° ES | 12.5               | 0-1       | T1               | n/a         | N/A                 | N/A              | N/A              | 1       | C                | 3020263   | 1.80                  | 80-85                     | 12.5    | 23.0 m³/hr                    |
|                                   |             |             |                                    |   | 23          | 78,400   | 0.65 60° ES | 9.5                | 0-1       | T2               | n/a         | N/A                 | N/A              | N/A              | 1       | N/A              | 3020263   | 1.97                  | 85-90                     | 12.5    | 26.0 m³/hr                    |
|                                   |             |             |                                    |   | 26          | 88,700   | 0.65 60° ES | 11.5               | 0-1       | T2               | n/a         | N/A                 | N/A              | N/A              | 1       | N/A              | 3020263   | 2.24                  | 90-95                     | 12.5    | 28.5 m³/hr                    |
| 137, 140, 192, 195,               | Riello      | 3514304     | RDB 2.2 EFCOND 90-120              | Vortex ECO Condensing Utility, System, Module, Module System & Boiler house | 26          | 88,700   | 0.65 60° ES | 11.5               | 0-1       | T3               | n/a         | N/A                 | N/A              | N/A              | 1       | N/A              | 3020263   | 2.24                  | 75-80                     | 12.5    | 28.5 m³/hr                    |
|                                   |             |             |                                    |   | 31          | 105,700* | 0.75 60° ES | 12.0               | 0-1       | T5               | n/a         | N/A                 | N/A              | N/A              | 1       | N/A              | 3020263   | 2.64                  | 85-90                     | 12.5    | 34.5 m³/hr                    |
|                                   |             |             |                                    |   | 35          | 119,400  | 0.75 60° ES | 14.0               | 0-1       | T5               | n/a         | N/A                 | N/A              | N/A              | 1       | N/A              | 3020263   | 2.97                  | 90-95                     | 12.5    | 39.0 m³/hr                    |