

# PDF250 Dual Fuel Burner



## PDF250 Dual Fuel Burner features:

- Available configured for Natural Gas or LPG combined with distillate or residual oils, other fuels on request
- Applications include steam and high pressure hot water boilers, as well as more diverse processes such as rotary dryers
- Separate floor-mounted combustion air fan
- Pressure atomisation (no compressed air or steam required)
- Skid mounted oil pump and heater sets for easy installation
- Fully modulating operation as standard on both fuels
- Microprocessor based Autoflame sequence control
- Separate and air mapping for both fuels
- Integrated PID control for accurate response to demand
- Linkageless fuel/air ratio management for up to 7:1 turndown (gas) and 4:1 turndown (oil)
- Optional Extras:
  - Exhaust gas analysis for passive monitoring of emissions
  - Oxygen trim for improved emissions control
  - Variable speed drive combustion fan for improved electrical efficiency
  - Air inlet silencer (<85 dBA)
  - Non Autoflame mechanical linkage
  - Separate or integrated water level controls for steam boiler
  - Data Transfer Interface (DTI)
  - Low NOx head
- Optional air and gas monitoring configurations available to suit appliance
- All kW ratings are in nett CV



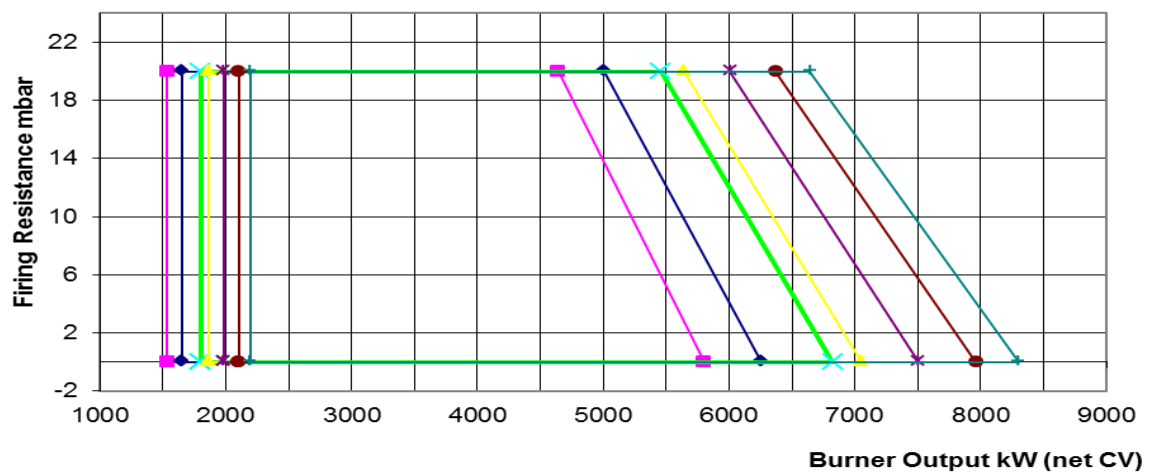
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| Model PDF                       |        | 250/5.1                 | 250/5.5                 | 250/6.0                 | 250/6.2                 | 250/6.6                 | 250/7.0                 | 250/7.3                 |
|---------------------------------|--------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Max Output / (nett CV) max res. | MW     | 4.7                     | 5.0                     | 5.4                     | 5.7                     | 6.0                     | 6.3                     | 6.7                     |
| Fan Size                        | kW     | 15                      | 15                      | 15                      | 15                      | 15                      | 15                      | 15                      |
| Pump Motor (Distillate Fuel)    | kW     | 3.0                     | 3.0                     | 3.0                     | 3.0                     | 3.0                     | 3.0                     | 3.0                     |
| Pump Motor (Residual Fuel)      | kW     | 1.5                     | 1.5                     | 1.5                     | 3.0                     | 3.0                     | 3.0                     | 3.0                     |
| Pre-heater (Residual Fuel only) | kW     | 15                      | 18                      | 18                      | 21                      | 21                      | 21                      | 21                      |
| Electrical Supply               | V/Hz   | 400/50                  | 400/50                  | 400/50                  | 400/50                  | 400/50                  | 400/50                  | 400/50                  |
| Oil inlet pressure              | psi    | 5 to 10                 | 5 to 10                 | 5 to 10                 | 5 to 10                 | 5 to 10                 | 5 to 10                 | 5 to 10                 |
| Gas inlet pressure (min/max)    | mbar   | 140/300                 | 140/300                 | 140/300                 | 140/300                 | 140/300                 | 140/300                 | 140/300                 |
| Gas train inlet conn.           |        | PN16 DN80               | PN16 DN80               | PN16 DN80               | PN16 DN80               | PN16 DN80               | PN16 DN80               | PN16 DN80               |
| Operation                       |        | Fully Modulating        | Fully Modulating        | Fully Modulating        | Fully Modulating        | Fully Modulating        | Fully Modulating        | Fully Modulating        |
| Control Unit                    |        | Autoflame Mini Mk7      | Autoflame Mini Mk7      | Autoflame Mini Mk7      | Autoflame Mini Mk7      | Autoflame Mini Mk7      | Autoflame Mini Mk7      | Autoflame Mini Mk7      |
| Gas Turndown                    |        | up to 7.0               | up to 7.0               | up to 7.0               | up to 7.0               | up to 7.0               | up to 7.0               | up to 7.0               |
| Oil Turndown                    |        | up to 4.0               | up to 4.0               | up to 4.0               | up to 4.0               | up to 4.0               | up to 4.0               | up to 4.0               |
| Flame Monitor                   |        | UV Sensor               | UV Sensor               | UV Sensor               | UV Sensor               | UV Sensor               | UV Sensor               | UV Sensor               |
| Flame tube lengths              | mm     | 430/610                 | 430/610                 | 430/610                 | 430/610                 | 430/610                 | 430/610                 | 430/610                 |
| GAS Noise                       | dBA    | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer |
| NOx*                            | mg/kWh | 140-190                 | 140-190                 | 140-190                 | 140-190                 | 140-190                 | 140-190                 | 140-190                 |
| OIL Noise                       | dBA    | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer | 93<br><85 with silencer |
| NOx*                            | mg/kWh | 200-280                 | 200-280                 | 200-280                 | 200-280                 | 200-280                 | 200-280                 | 200-280                 |
| CO                              | mg/kWh | <110                    | <110                    | <110                    | <110                    | <110                    | <110                    | <110                    |

Information for standard design and subject to change.

\* Low NOx head design (<80mg/kWh Gas, <120mg/kWh Oil) subject to suitable combustion chamber design.

## Working Fields for P250 / 5.1-7.3 (v2013)



—■— P250/5.1 —◆— P250/5.5 —■— P250/6.0 —▲— P250/6.2 —✱— P250/6.6 —●— P250/7.0 —◆— P250/7.3

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