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### DATA SHEET

**Model: TDO4**

Revision Date: October 2004

**Output: 110 – 650 kW**

Revision Number: DS.TD04.01



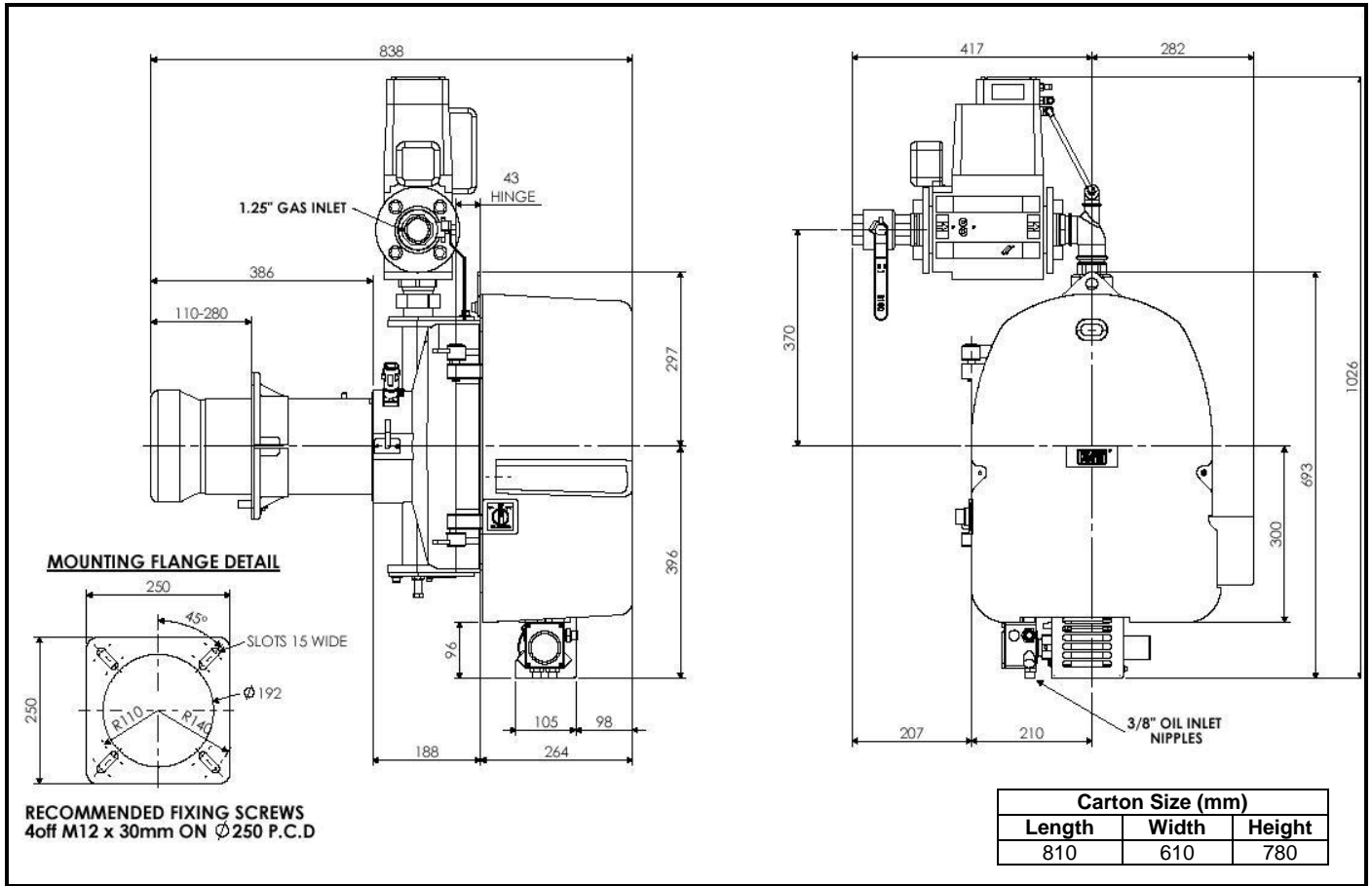
- ◆ Full electric fuel changeover system, switch selectable or remote control
- ◆ Separately controlled oil pump and motor
- ◆ Gas entry to top or bottom
- ◆ Two stage modulating or fully modulating on gas
- ◆ High/Low control on Oil
- ◆ Biogas, town gas and LPG options available
- ◆ All models approved to current British and European Standards.
- ◆ All models have been independently tested to the European Standard EN676 : 1991' Automatic forced draught burners for gaseous fuels'.
- ◆ All burners in the T.O. range are of the fan assisted, nozzle mix type and operation is fully automatic expanding flame start.

- ◆ **Natural Gas** - Minimum gas pressure of 17.5mb required at burner inlet.
- ◆ **L.P.G.**
- ◆ **Town Gas**
- ◆ **Biogas** } Technical details available on request from Dunphy sales dept.



Certificate No. FM 24868  
BS EN ISO 9000 : 2000

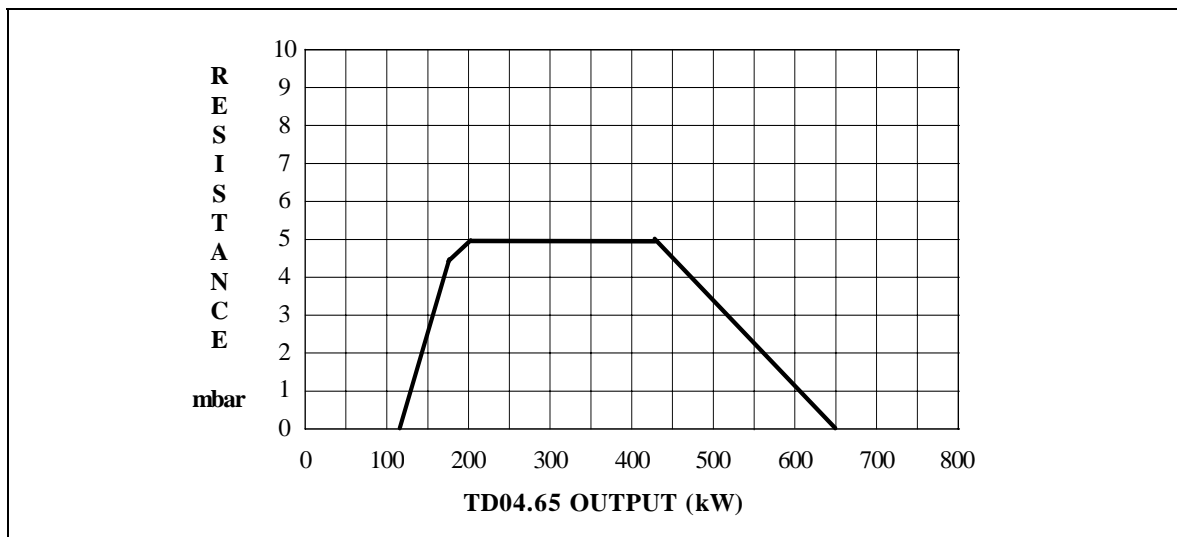
## BURNER DIMENSIONS



\*\* The burner gas train may be positioned as shown or rotated to the left or right as required.

- ◆ All dimensions in mm unless otherwise stated.
- ◆ Please check the issue number to ensure validity.

## BURNER RATING GRAPH



## SPECIFICATION DATA

BURNER MODEL	Firing Rate kW		Burner Control	FCAD*	Control Input Type	GAS INLET 'R'	Min/Max Gas Pressure mbar	m³/Hour *(1)	Weight kg *(2)		
	MIN	MAX							A	B	C
TDO4.65 HL/HL	110	650	High/Low Gas High/Low Oil	Yes	High / Low Stat	1.25" BSP	20 / 100	62.5	56	64	13
TDO4.65 MP/HL	110	650	Modulating Gas High/Low Oil	Yes	3 wire up / down	1.25" BSP	20 / 100	62.5	56	64	13

BURNER MODEL	Burner Controls			Fan Motor Details						Oil Pump Details		
	Voltage	Hz	Ph	Voltage	Hz	Ph	Motor Watts	Running Current (A)	Starting Current (A)	Voltage	Ph	Motor Watts
TDO4.65 HL/HL	230V	50	1	415V	50	3	550	0.8	6.4	230V	1	250
TDO4.65 MP/HL	230V	50	1	415V	50	3	550	0.8	6.4	230V	1	250

\*FCAD – Fully Closing Air Damper

\*(1) – Based on Nat. Gas C.U. 10.4kW/m

\*(2) – A – Burner without valve, B – Burner with valve, C – Packaging material weight

## FEATURES



- High efficiency
- Low Noise operation
- Integrated low gas pressure protection switch
- Adjustable flange for different furnace projections
- All gas valves factory prepared ready for immediate and simple connection to burner



- Acoustic lined cover as standard
- Full electric changeover for fuel selection
- Separate air damper setting for each fuel type
- Separate fuel pump and motor set eliminates wear and tear when operating on gas
- Volt Free contacts available on request



Dunphy Combustion Ltd. have a policy of continuous development and reserve the right to change specifications without prior notice