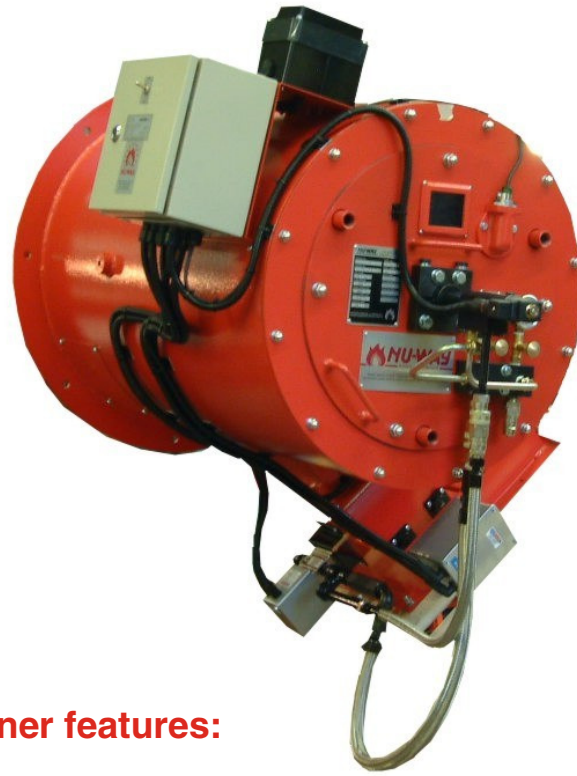


# PO160 Oil Burner



## PO160 Oil Burner features:

- Available configured for distillate or residual oils, other liquid 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 unit or monoblock design option
- Pressure atomisation (no compressed air or steam required)
- Fully modulating operation as standard on both fuels
- Microprocessor based Autoflame sequence control (Siemens LMV5 or ETC options) with servo motor fuel/air ratio management for up to 4:1 turndown (oil)
- Factory-set spillback pressures for straightforward commissioning
- Skid mounted oil pump and heater sets for easy installation
- 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 (<80mg/kWh)\*
- Optional air handling configurations available to suit appliance
- All KW ratings in net CV



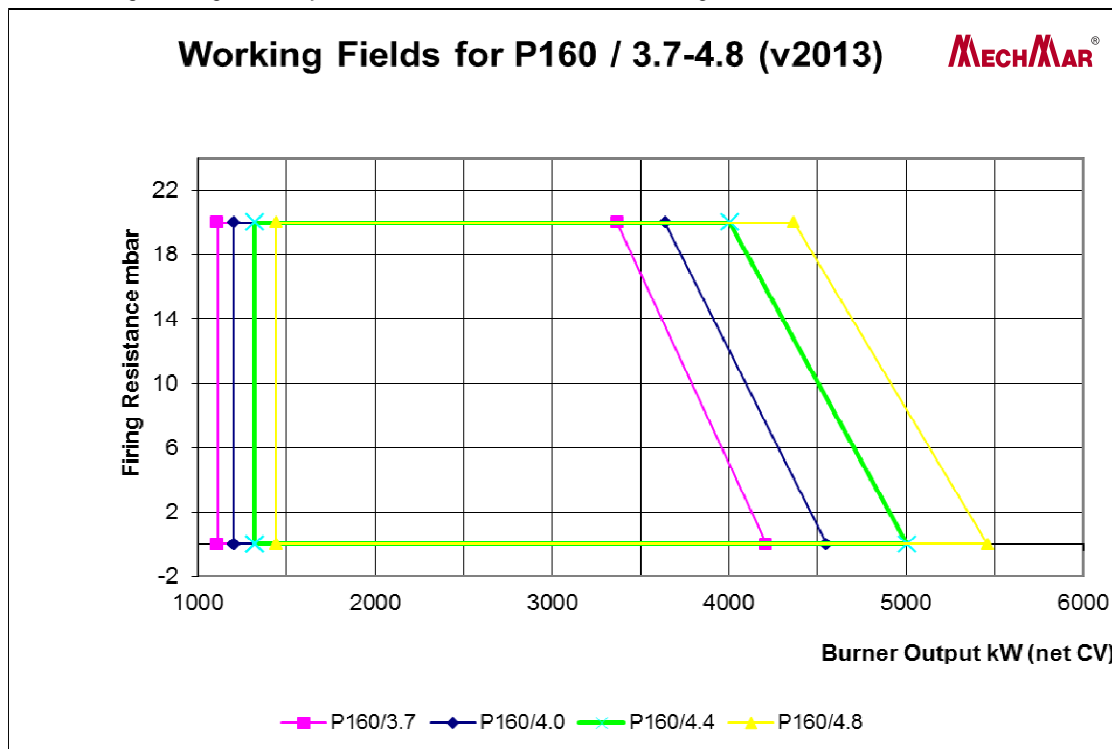
For more information on Mechmar products  
please visit [www.mechmar.com.sg](http://www.mechmar.com.sg)

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Model PO		160/3.7	160/4.0	160/4.4	160/4.8
Output (NCV)	MW	3.3	3.6	3.9	4.3
Fan Size	kW	11	11	11	11
Oil Pump Motor	kW	0.75	0.75	0.75	0.75
Oil Pre-heater (Residual Fuel only)	kW	12	12	12	15
Electrical Supply	V/Hz	400/50	400/50	400/50	400/50
Oil inlet pressure	psi	5 to 10	5 to 10	5 to 10	5 to 10
Fuel pump		TA2	TA2	TA2	TA2
Operation		Fully Modulating	Fully Modulating	Fully Modulating	Fully Modulating
Control Unit		Autoflame Mini Mk7	Autoflame Mini Mk7	Autoflame Mini Mk7	Autoflame Mini Mk7
Turndown		up to 4:1	up to 4:1	up to 4:1	up to 4:1
Flame Monitor		UV Sensor	UV Sensor	UV Sensor	UV Sensor
Flame tube lengths	mm	430/610	430/610	430/610	430/610
Noise	dBA	93 <85 with silencer	93 <85 with silencer	93 <85 with silencer	93 <85 with silencer
NOx	mg/kWh	200-280*	200-280*	200-280*	200-280*
CO	mg/kWh	<110	<110	<110	<110

Information for standard design and subject to change.

\* Low NOx head design <80mg/kWh subject to suitable combustion chamber design.



#### BURNER DESIGNATION

POL 160/4.8 LN MM3NA 610  
 P = Burner Series  
 O = Oil  
 L = Light Fuel Oil (Diesel), G = Class G HFO  
 160 = Casing Size  
 4.8 = Maximum Output MW (GCV)  
 LN = Low NOx head design  
 MM = Micro Modulation Control  
 3 = 3 Phase Electrical Supply  
 N = No Control Junction Box on Burner  
 A = Autoflame Burner Programmer, L = Siemens LMV5  
 610 = 610mm Flame Tube Projection

#### MECHMAR (PTE) LTD

56 Kian Teck Road Singapore 628791

Tel: 6268 3048 Fax: 6261 4049

E-mail: mechmar@singnet.com.sg

Website: www.mechmar.com.sg

**MECHMAR**<sup>®</sup>