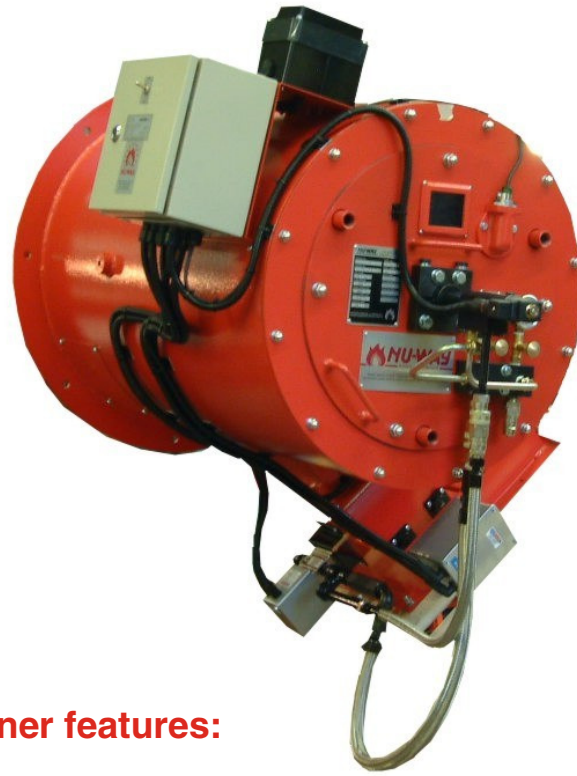


PO490 Oil Burner



PO490 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



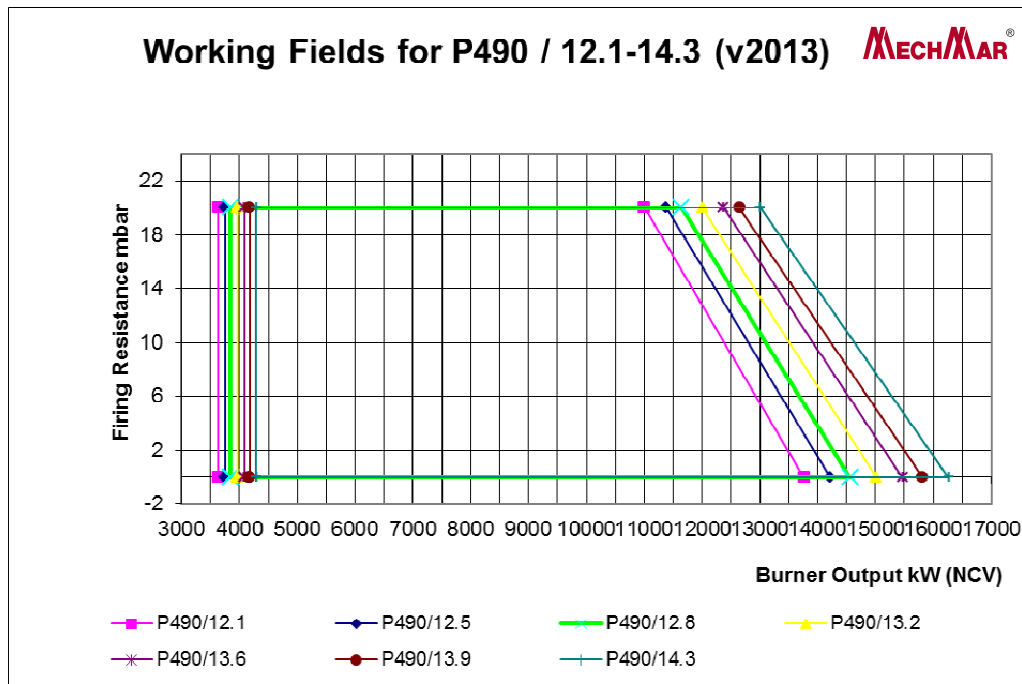
For more information on Mechmar products
please visit www.mechmar.com.sg

MECHMAR®

Model PO		490/12.1	490/12.5	490/12.8	490/13.2	490/13.6	490/13.9	490/14.3
Output (NCV)	MW	10.9	11.2	11.5	11.9	12.2	12.5	12.9
Fan Size	kW	30	30	30	30	30	30	30
Oil Pump Motor	kW	4.0	4.0	4.0	4.0	5.5	5.5	5.5
Oil Pre-heater (Residual Fuel only)	kW	36	36	36	36	48	48	48
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
Fuel pump		T3	T3	T3	T3	T4	T4	T4
Operation		Fully Modulating Autoflame Mini Mk7	Fully Modulating Autoflame Mini Mk7	Fully Modulating Autoflame Mini Mk7	Fully Modulating Autoflame Mini Mk7	Fully Modulating Autoflame Mini Mk7	Fully Modulating Autoflame Mini Mk7	Fully Modulating Autoflame Mini Mk7
Control Unit								
Turndown		up to 4:1	up to 4:1	up to 4:1	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	UV Sensor	UV Sensor	UV Sensor
Flame tube lengths	mm	430/610	430/610	430/610	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	93 <85 with silencer	93 <85 with silencer	93 <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 subject to suitable combustion chamber design.



POL 490/12.1 LN MM3NA 610
P = Burner Series
O = Oil
L = Light Fuel Oil (Diesel), G = Class G HFO
490 = Casing Size
12.1 = 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

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