LOW NOx CLASS 3 EN676 _ NOx<80mg/kWh

GAS P 190/M-250/M CE-LX

Burners for gas two stages progressive (hi-low flame) or modulating (PID fully modulating) with the addition of the optional system modulation kit plus feeder. Fan at high pressurisation, combustion head with adjustment at high efficiency and high flame stability.The valve proving system is installed as standard. Equipped as standard with UV sensor and pilot flame.

Disposition rationalized of the components with accessibility facilitated for the operations of setting and maintenance.

Available methane gas version (NATURAL GAS).

Gas train complete of working valve with flow adjustment, safety valve, gas pressure switch, filter stabiliser of gas pressure, completely assembled, electrically linked and tested.

Available versions with MECHANICAL CAM or ELECTRONIC CAM.

TECHNICAL DATA

MODEL		GAS P 190/M CE-LX	GAS P 250/M CE-LX
Thermal power 1°st./min 2°st.-max 2°st. *	[Mcal/h]	300/900-1900	400/1000-2500
Thermal power 1°st./min 2°st.-max 2°st. *	[kW]	347/1044-2204	465/1160-2900
Gas flow G20 /(NATURAL GAS) 1°st./min 2°st.-max 2°st. *	[Nm³/h]	35/105-222	47/117-292
Gas flow G31 /(LPG) 1°st./min 2°st.-max 2°st. *	[Nm³/h]	14/41-86	18/45-113
Fuel		Natural gas (second family) - LPG (third family)	
Fuel category		2R'|2H'|2L'|2E'|2E+'|2Er'|2ELL'|2E(R)B/|3B/P'|3+,|3P,|3B,|3R	
NOx**	mg/KWh	< 80 : classe 3 (EN676)	
Intermittent working operation (min. 1 stop every 24 hours) modulating			
Environmental conditions operation / storage		-15...+40°C / -20...+70°C , rel. humidity max. 80%	
Max temperature combustion air	[°C]	60	60
Minimum gas train pressure (D2" FS50 natural gas/LPG)**	[mbar]	112/-	194/-
Minimum gas train pressure (DN65 FS65 natural gas/ LPG)**	[mbar]	51/-	88/-
Minimum gas train pressure (DN80-S F80 natural gas/ LPG)**	[mbar]	38/-	66/-
Minimum gas train pressure (DN100-S F100 natural gas/ LPG)**	[mbar]	28/-	48/-
Maximum supply gas pressure (Pe.max)	[mbar]	500	500
Nominal electric power	[kW]	4.5	7
Fan motor	[kW]	4	5.5
Nominal absorption current (powers)	[A]	8	12
Nominal absorption current (auxiliary)	[A]	0.4	0.4
Power supply		3~400V-1/N~230V-50Hz	
Electric protection degree		IP44	IP44
Sound level*** min-max	[dB(A)]	79-82	81-85
Burner weight	[kg]	128	158

* Reference conditions: Environment temperature 20°C - Barometric pressure 1013 mbars - Altitude 0 metre (sea level)
** In order to obtain low Nox emission as declared, burner must be matched to the proper boiler for this application: boiler with 3 turns for the exhaust gas, condensing boilers and any generator with direct exhaust oulet and the thermal load that is not higher than 1,8 MW/m³
*** Minimum pressure of gas feeding to the gas train in order to obtain the maximum power of the burner considering the back pressure in combustion chamber to a value of 0 (zero)
**** Measured sonorous pressure in the laboratory combustion, with functional burner on beta boiler to 1 metre of distance (UNI EN ISO 3746 law)

FIRING RATES

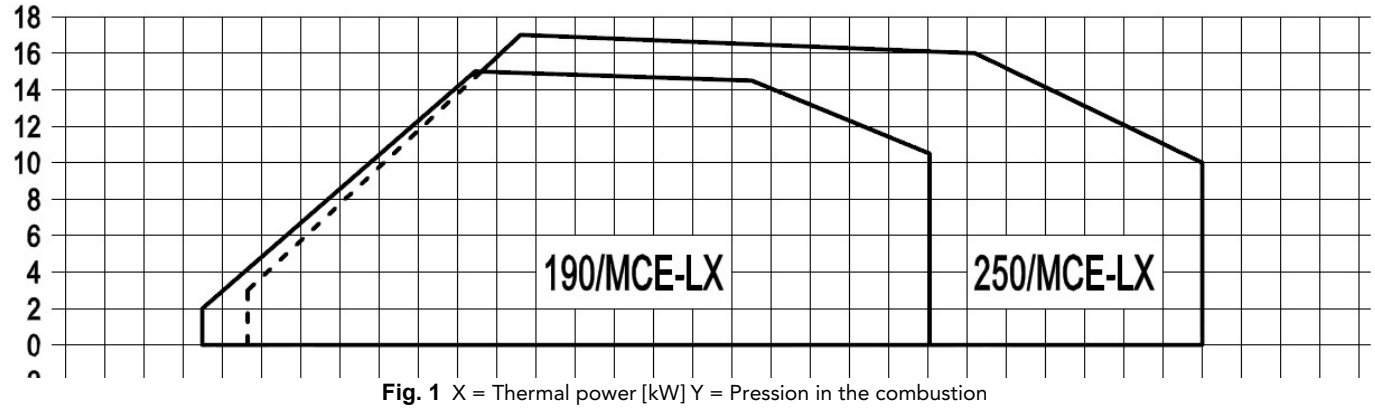
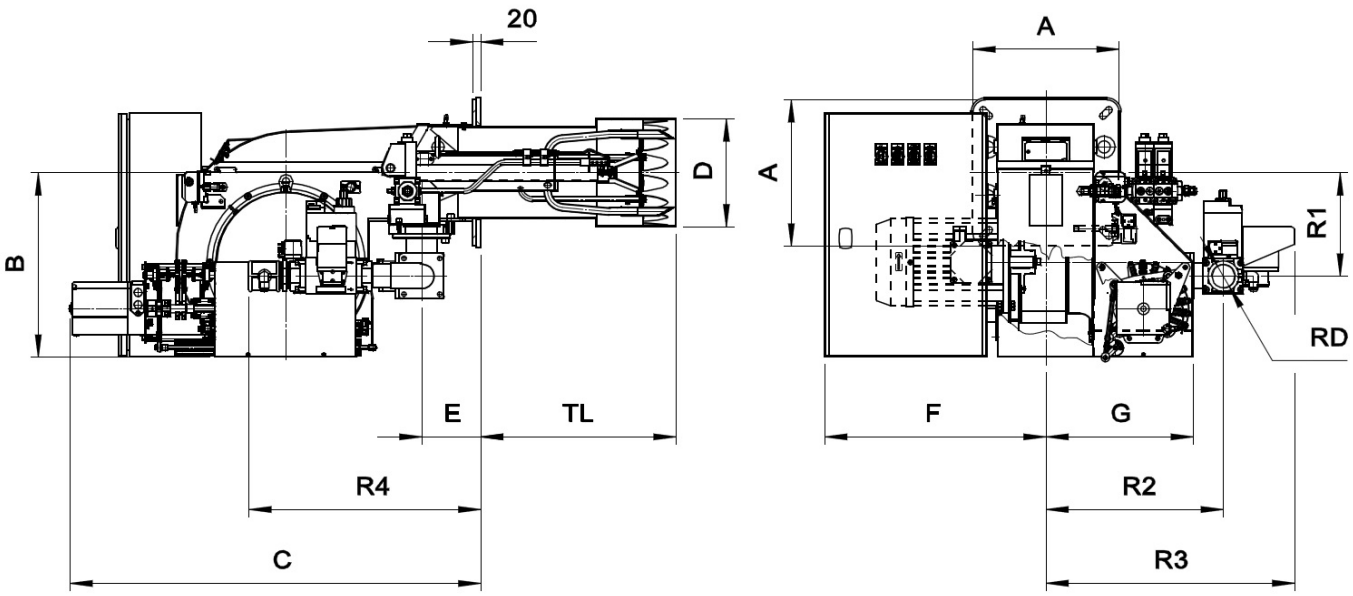


Fig. 1 X = Thermal power [kW] Y = Pression in the combustion

The firing rates has been obtained based on test boilers in accordance with EN267 standards and are indicative of matching the burner to the boiler. For the correct operation of the burner bruciatore, combustion chamber dimensions must be in accordance with current regulation. In case of non-compliance, contact the manufacturer.

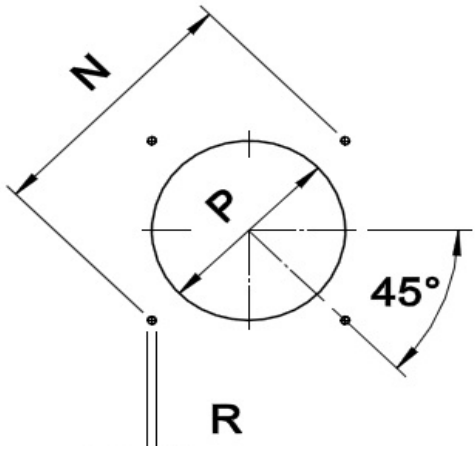
DIMENSIONS [MM]



MODEL	A	B	C	D	E	F	G	TL
GAS P190/M CE-LX-D2"	360	453	1010	265	145	545	363	481
GAS P250/M CE-LX-D2"	360	453	1010	265	145	545	363	481

MODEL	R1	R2	R3	R4	RD	Gas train weight
GAS P190/M CE-LX-D2"	254	437	613	571	Rp2	22 kg
GAS P250/M CE-LX-D2"	254	437	613	571	Rp2	22 kg

BOILER PLATE



The dimensions of the boiler plate must be as indicated in the drawing.

MODEL	N min	N*	N max	P min	P*	P max	R
GAS P190/M CE-LX-D2"	396	424	438	280	280	320	M14
GAS P250/M CE-LX-D2"	396	424	438	280	280	320	M14

* Suggested dimension of connection between burner and generator

PRODUCT SPECIFICATION

SHORT DESCRIPTION

Burners for gas two stages progressive (hi-low flame) or modulating (PID fully modulating) if equipped with addition of optional modulation kit and probe, emissions lower than limits requested by EC standards (NOx <80 mg/kWh)

DETAILED SPECIFICATION

Monoblock forced draught burners for gas with two stage progressive (hi-low flame) or modulating (PID fully modulating) operation, fully automatic, made up of:

- fan at high pressurisation
- combustion head with adjustment at high efficiency and high flame stability
- valve proving system installed as standard
- electrical panel with metal box
- gas valve completely metallic, spherical system with a proportional flow and total flow at the maximum aperture
- air shutters and high precision gas valve set on bearings
- equipped as standard with UV photocell and pilot flame
- disposition rationalized of the components with accessibility facilitated for the operations of setting and maintenance
- available methane gas version (NATURAL GAS)
- gas train complete of working valve with flow adjustment, safety valve, gas pressure switch, filter stabiliser of gas pressure, completely assembled, electrically linked and tested

CONFORMING TO:

- CE rules
- degree of electric protection IP44
- directive Machinery 2006/42/EC
- directive E.M.C. 2004/108/EC
- directive L.V. 2006/95/EC
- directive PED 97/23/EC
- standards: EN676 (GAS)
- EN 746-2 (INDUSTRIAL THERMOPROCESSING EQUIPMENT)

ACCESSORIES

- Power modulating kits for temperatures
- Power modulating kits for pressures
- Temperature probe 0°C-400°C (PT 100 a 0° C)
- Temperature probe 0°C-1200°C (K probe)
- Pressure probe 0-3 bar, 0-6 bar. 0-16 bar, 0-20 bar, 0-30 bar
- Noise protection