



FBR

DIMENSIONS [MM]

GAS BURNERS LOW NOX TWO STAGES PROGRESSIVE OR MODULATING



SK073038_B_en

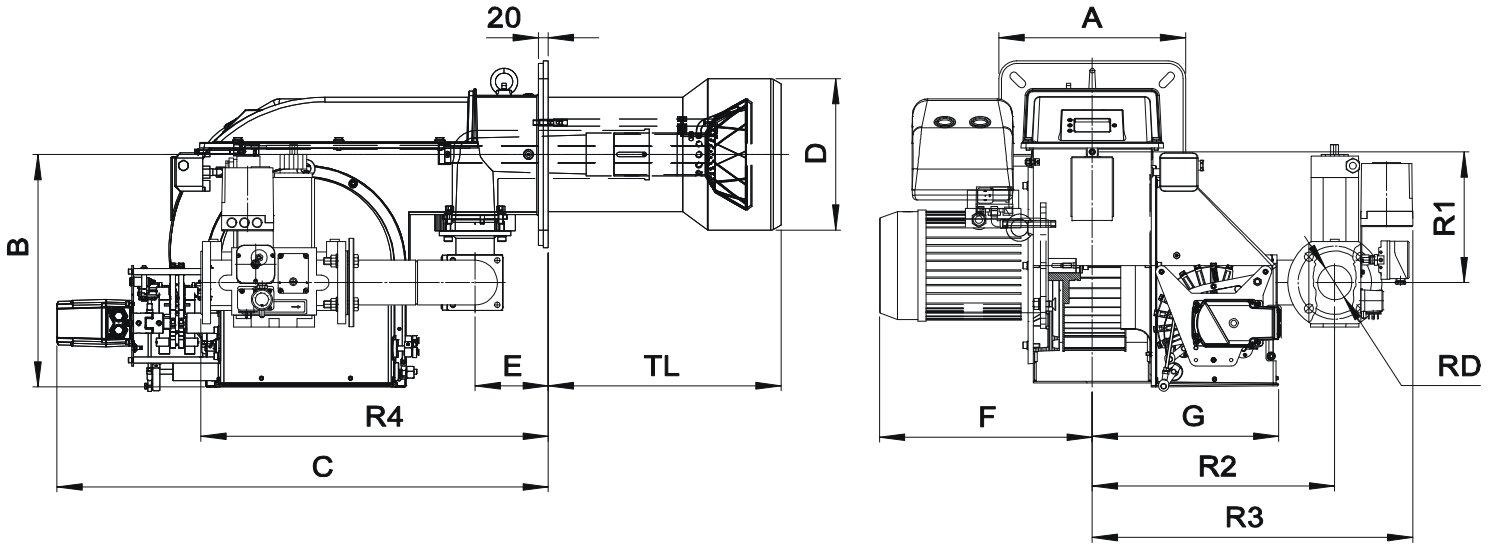
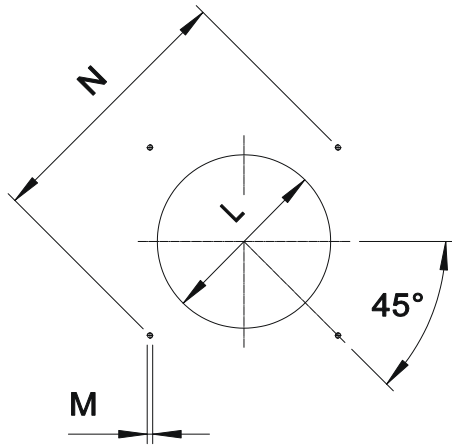


Fig. 4 Dimensions GAS P190/M CE-LX - GAS P250/M CE-LX

MODEL	A	B	C	D	E	F	G	R1	R2	R3	R4	RD	Gas train weight
GAS P190/MCE - D2" FS50	360	453	974	265	145	422	363	254	509	672	504	Rp 2	21 kg
GAS P190/MCE - DN65 FS65	360	453	974	265	145	422	363	254	480	634	688	DN65	40 kg
GAS P190/MCE - DN80 FS80	360	453	974	265	145	422	363	254	480	647	708	DN80	46 kg
GAS P190/MCE - DN100 FS100	360	453	974	265	145	422	363	254	480	654	748	DN100	52 kg
GAS P250/MCE - D2" FS50	360	453	974	265	145	422	363	254	509	672	504	Rp 2	21 kg
GAS P250/MCE - DN65 FS65	360	453	974	265	145	422	363	254	480	634	688	DN65	40 kg
GAS P250/MCE - DN80 FS80	360	453	974	265	145	422	363	254	480	647	708	DN80	46 kg
GAS P250/MCE - DN100 FS100	360	453	974	265	145	422	363	254	480	654	748	DN100	52 kg



* Suggested dimension of connection between burner and generator.

Fig. 5 Boiler plate

MODEL		L min	L *	L max	M	N min	N *	N max
GAS P190/M CE-LX	mm	280	280	320	M14	396	424	438
GAS P250/M CE-LX	mm	280	280	320	M14	396	424	438

FLAME TUBE LENGTH

Flame tube length must be selected based on the specifications supplied by boiler manufacturer and, in any case, it must be greater than the thickness of the boiler door included its insulation.

In case of boilers with flame inversion or front flue combustion chambers, it is necessary to insulate the area between the flame tube and front door with refractory material. This protection material must not impede flame tube extraction.

MODEL		TL **
GAS P190/M CE-LX	mm	481
GAS P250/M CE-LX	mm	481

** For different flame lengths, please contact our Technical-Sales Department.

BURNER SIGNAL DESCRIPTION

In the picture below there are indicated all the signalation present on the burner:

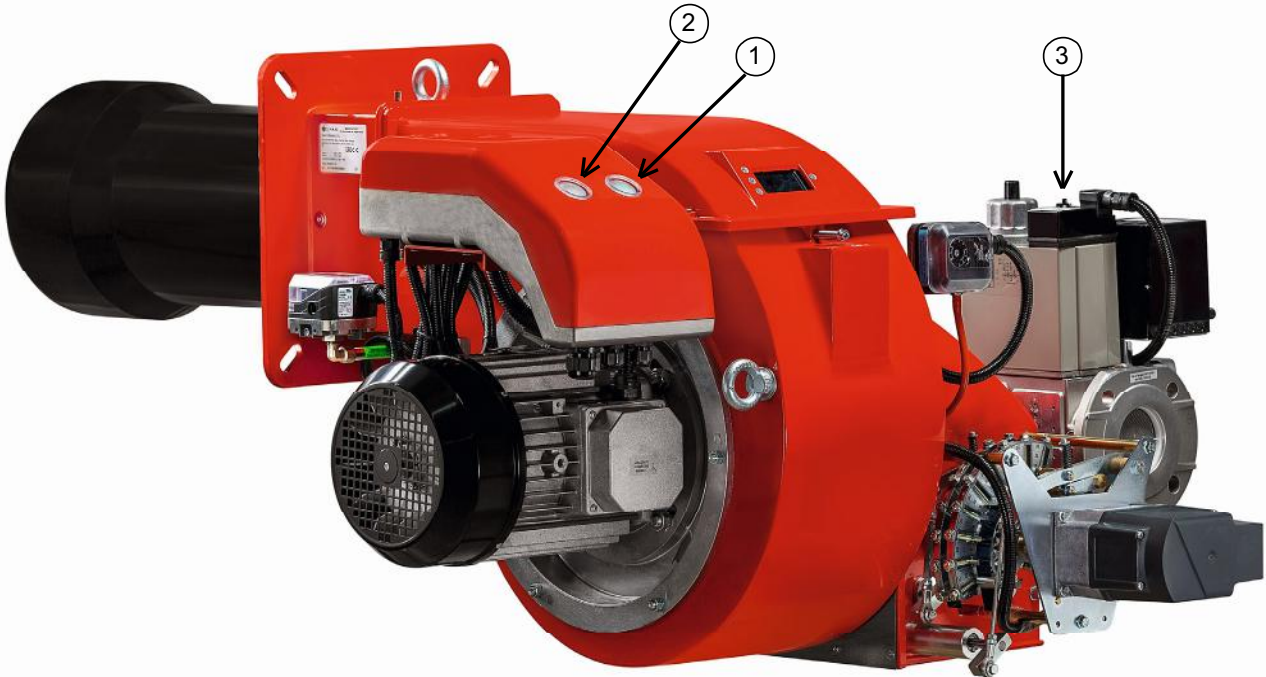



Fig. 6 Burner signal description


LEGEND

- 1) ON/OFF button
- 2) Reset from lockout button + status lamp
- 3) GAS valve lamp *


* In the gas train DN65-FS65, DN80-FS80 and DN100-FS100 there are 2 lamps.

 The multicolor signal lamp in the lockout reset button (pos.2) is the key indicating element for visual diagnostics and interface diagnostics.

In normal operation, the different operating states are indicated in the form of color codes; please refer to electrical device handbook supplied with the present instructions.

 After a non-alterable lockout, the red signal lamp in the lockout reset button (pos.2) lights up. By pressing the lockout reset button (pos.2) for more than 3 seconds, the visual diagnostics of the cause of fault can be activated; please refer to electrical device handbook supplied with the present instructions.

For close the diagnostics mode and for switch on the burner again, it is necessary to reset the burner control. Press the lockout reset button (pos.2) for about 1 second (<3 seconds).

 After a non-alterable lockout, the red signal lamp in the lockout reset button (pos.2) lights up. For reset the control box press the lockout reset button (pos.2) for about 1 second (<3 seconds).

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 low emissions certified in conformity with CE 676 class 3 (NO_x < 80 mg/kWh).

DETAILED SPECIFICATION

Burner for gas two stages progressive (hi-low flame) or modulating (PID fully modulating) if equipped with addition of optional modulation kit and probe low emissions certified in conformity with CE 676 class 3 (NO_x < 80 mg/kWh); composed by:

- Fan at high pressurisation;
- Combustion head with adjustment at high performance and elevated flame stability equipped with inox steel blast tube and inox steel flame disc;
- Flange and insulating gasket for fixing at boiler;
- Three-phase power supply;
- Safety air pressure switch to stop the burner in lock-out in case of failed or anomalous fan operation;
- Gas train with safety valve class A, adjustment valve class A and valve proving system;
- UV probe for flame detection;
- IP 40 electric protection level;
- Spherical gas valve servo-controlled; progressive start and free way passage with total opening;
- Servomotor for air shutter and for the spherical gas valve;
- Moving shutter with total closure when idle in order to reduce at the least energy losses related to boiler cooling down;
- Easy extraction of combustion head without get off the burners by bolier;
- Maximum gas pressure switch to stop the burner in lock-out in case of the gas pressure is higher then the set point value;
- Pilot flame;
- Set up for the additional specific kit that transforms burner operation as modulating i.e. the modulating kit allows to supply any power between the minimun and the maximum value based on instantaneous loading request.

CONFORMING TO:

- CE rules;
- 2014/30/UE Directive E.M.C.;
- 2014/35/UE Directive L.V.;
- 2006/42/CE - 2006/42/EG - 2006/42/EC Directive MAC;
- (art.4, par.3) 2014/68/EU Directive P.E.D.;
- 2016/426/UE Directive GAS;
- Reference rules: EN676 (gas) - EN746-2 (industrial thermoprocessing equipment).

STANDARD EQUIPMENT

- Isomart gasket;
- Flange with insulating gasket;
- Burner nameplate;
- Warranty;
- Instruction handbook for installation, use and maintenance.

OPTIONAL

- 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;
- Antivibration couplings;
- Handle gas taps.