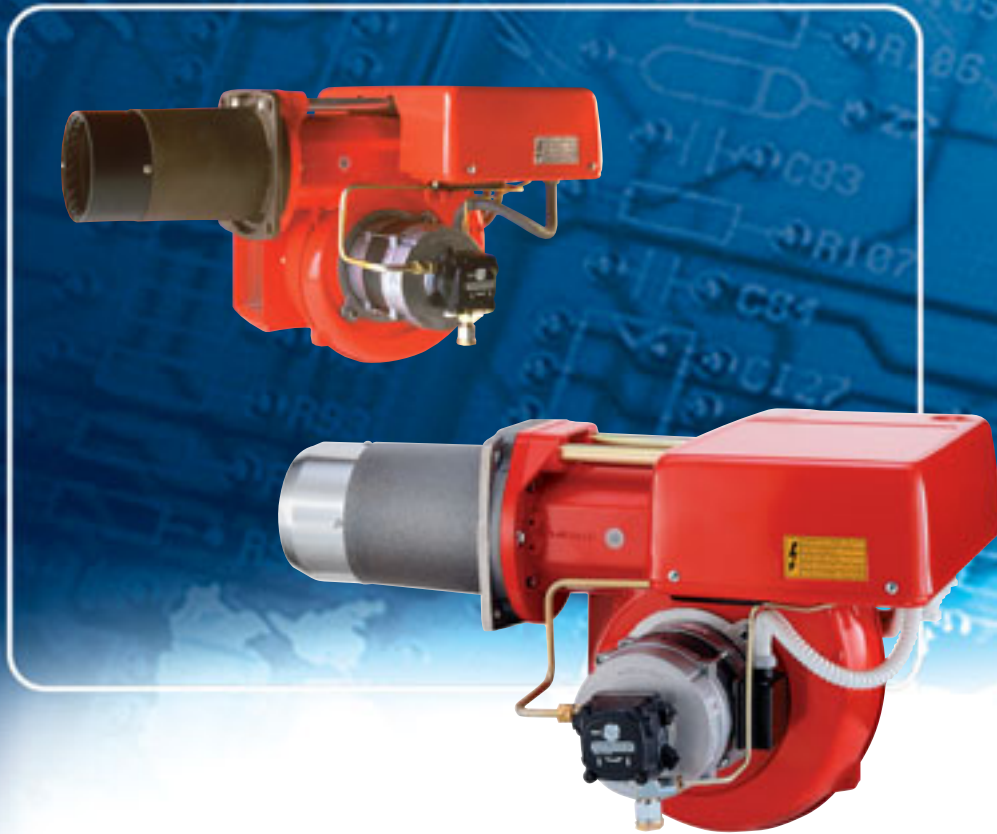




TWO STAGE LIGHT OIL BURNERS

▶ PRESS G SERIES

| | |
|-------------------|-------------------|
| ▶ PRESS GW | 107/178 ÷ 356 kW |
| ▶ PRESS 1G | 130/190 ÷ 534 kW |
| ▶ PRESS 2G | 214/356 ÷ 712 kW |
| ▶ PRESS 3G | 273/534 ÷ 1168 kW |
| ▶ PRESS 4G | 415/830 ÷ 1660 kW |



The PRESS G series of burners covers a firing range from 107 to 1660 kW and they have been designed for use in civil installations of average dimensions, like building areas and large apartment groups or for use in industrial applications, like small or medium plants. Operation is two stage; the combustion head, that can be set on the basis of required output, allows optimal performance ensuring good combustion and reducing fuel consumption. The main feature of these burners is their reliability due to a simple and strong construction, that permits operation without particular maintenance intervention. Simplified maintenance is achieved by the slide bar system, which allows easy access to all of the essential components of the combustion head. All electrical components are easily accessible only by dismounting a protection panel, thus guaranteeing a quick and simple intervention on components.



TECHNICAL DATA

| Model | | ▼ PRESS GW | ▼ PRESS 1G | ▼ PRESS 2G | ▼ PRESS 3G | ▼ PRESS 4G |
|--|----------|---|------------------|-------------|--------------|-------------------|
| Bumer operation mode | | Two stage | | | | |
| Modulation ratio at max. output | | 2 ÷ 1 | | | | |
| Servomotor | type | -- | | | | |
| | run time | s | | | | |
| Heat output | kW | 107/178÷356 | 130/190÷534 | 214/356÷712 | 273/534÷1168 | 415/830÷1660 |
| | Mcal/h | 92/153÷306 | 112/163÷459 | 184/306÷612 | 235/459÷1004 | 357/714÷1428 |
| | kg/h | 9/15÷30 | 11/16÷45 | 18/30÷60 | 23/45÷100 | 35/70÷140 |
| Working temperature | | °C min./max. 0/40 | | | | |
| Net calorific value | | kWh/kg 11,8 | | | | |
| | | kcal/kg 10200 | | | | |
| Viscosity | | mm ² /s (cSt) 4 ÷ 6 (at 20°C) | | | | |
| Pump | type | AN 67 | AN 77 | AN 77 | J 6 | J 7 |
| | delivery | kg/h 65 (12 bar) | 90 (12 bar) | 90 (12 bar) | 164 (12 bar) | 244 (12 bar) |
| Atomised pressure | | bar 12 | | | | |
| Fuel temperature | | Max. °C 50 | | | | |
| Fuel pre-heater | | NO | | | | |
| Fan | | type Centrifugal with forward curve blades | | | | |
| Air temperature | | Max. °C 60 | | | | |
| Electrical supply | | Ph/Hz/V 1/50/230~(±10%) | 3N/50/400~(±10%) | | | 3/50/230~(±10%) △ |
| Auxiliary electrical supply | | Ph/Hz/V 1/50/230~(±10%) | | | | |
| Control box | | type RMO | | | | |
| Total electrical power | | kW 0,43 | 0,6 | 1,07 | 2,05 | 3,8 |
| Auxiliary electrical power | | kW 0,18 | 0,15 | 0,3 | 0,5 | 0,8 |
| Protection level | | IP 40 | | | | |
| Pump motor electrical power | | kW -- | | | | |
| Rated pump motor current | | A -- | | | | |
| Pump motor start up current | | A -- | | | | |
| Pump motor protection level | | IP -- | | | | |
| Fan motor electrical power | | kW 0,25 | 0,45 | 0,75 | 1,5 | 3 |
| Rated fan motor current | | A 2,1 | 1,9 - 1,1 | 2,9 - 1,7 | 6 - 3,5 | 10,5 - 6 |
| Fan motor start up current | | A 4,8 | 9,5 - 5,5 | 14 - 8 | 28 - 16 | 55 - 32 |
| Fan motor protection level | | IP 54 | | | | |
| Ignition transformer | | type -- | | | | |
| | | V1 - V2 230 V - 8 kV | | | | |
| | | I1 - I2 1,8 A - 30 mA | | | | |
| Operation | | Intermittent (at least one stop every 24 h) | | | | |
| Sound pressure | | dBA 75,5 | 78 | 81,5 | 83 | 85 |
| Sound power | | W -- | | | | |
| CO emission | | mg/kWh < 110 | | | | |
| Grade of smoke indicator | | N° Bach. < 1 | | | | |
| C _x H _y emission | | mg/kWh < 10 (after the first 20 s) | | | | |
| NO _x emission | | mg/kWh < 250 | | | | |
| Directive | | 73/23 - 89/336 - 98/37 - 92/42 EEC | | | | |
| Conforming to | | EN 267 | | | | |
| Certification | | -- | | | | |

Reference conditions:

Temperature: 20°C

Pressure: 1013.5 mbar

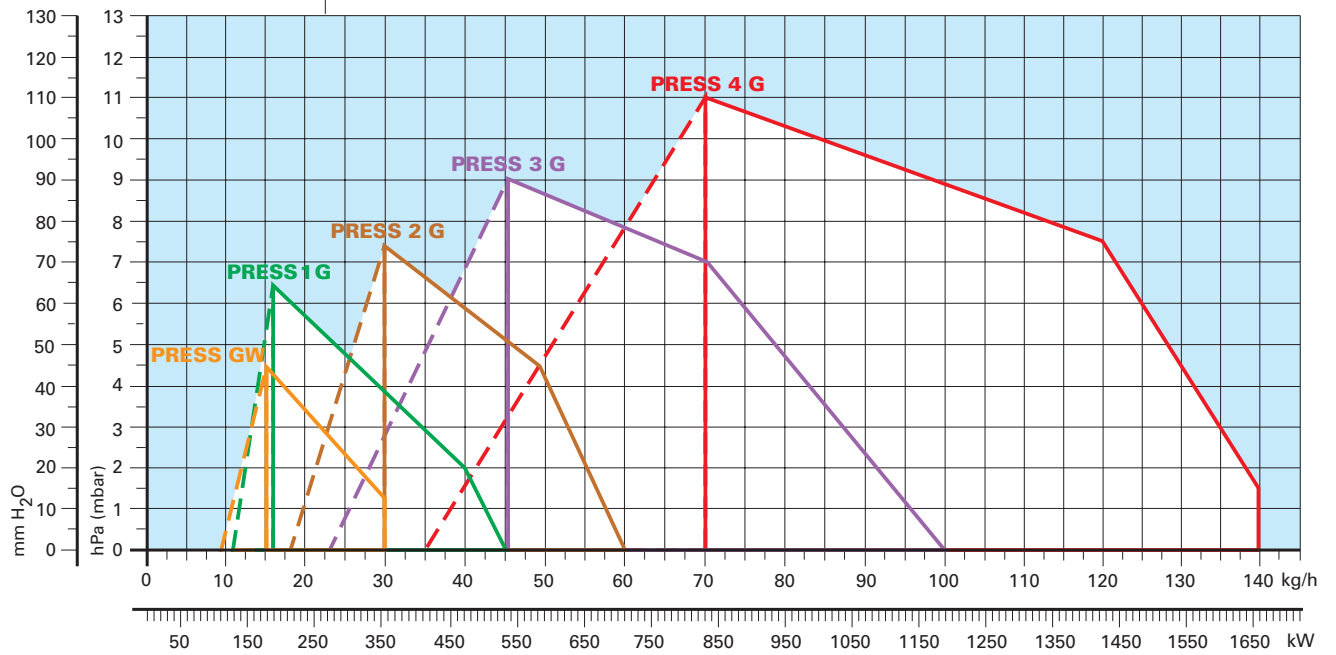
Altitude: 100 m a.s.l.

Noise measured at a distance of 1 meter.


Since the Company is constantly engaged in the production improvement, the aesthetic and dimensional features, the technical data, the equipment and the accessories can be changed.
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FIRING RATES



 Useful working field for choosing the burner

 1st stage operating rate

Test conditions conforming to EN 267:

Temperature: 20°C
 Pressure: 1013.5 mbar
 Altitude: 100 m a.s.l.



FUEL SUPPLY

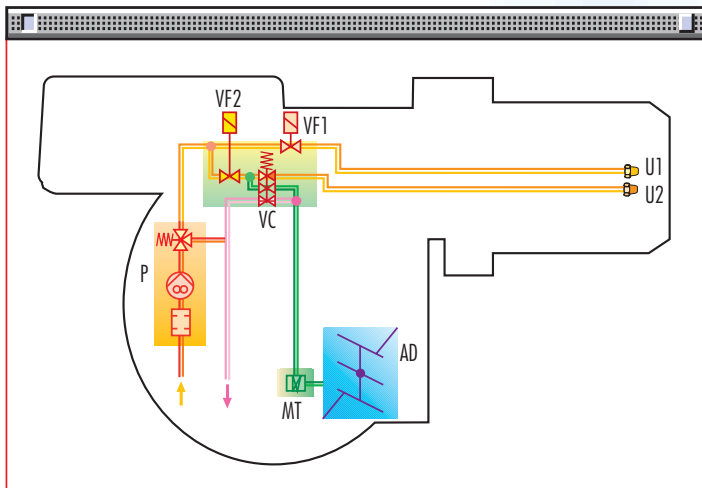
HYDRAULIC CIRCUITS

The burners are fitted with two oil delivery valves. A control device, on the basis of required output, regulates oil delivery valves opening, allowing light oil passage through the valves and the nozzles. 2nd stage delivery valve opening supplies the hydraulic ram which opens the air damper in relation to the fuel burnt on 2nd stage. All burners are fitted with a self-priming pump with filter and pressure regulator.

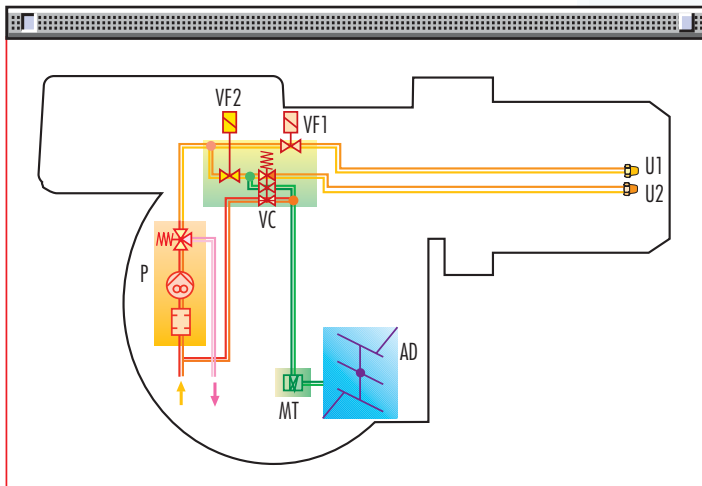


Example of self-priming pump of PRESS G burners

PRESS GW - 1G - 2G



PRESS 3G - 4G



| | |
|-----|---|
| P | Pump with filter and pressure regulator on the output circuit |
| VF1 | 1st stage valve |
| VF2 | 2nd stage valve |
| VC | 2nd stage control device |
| MT | Hydraulic ram |
| AD | Air damper |
| U1 | 1st stage nozzle |
| U2 | 2nd stage nozzle |

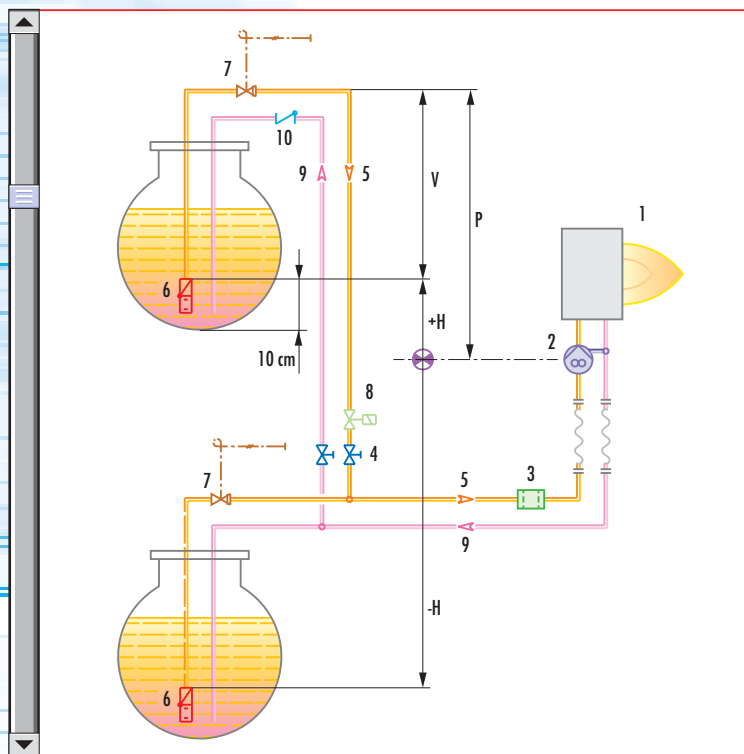


SELECTING THE FUEL SUPPLY LINES

The fuel feed must be completed with the safety devices required by the local norms.

The table shows the choice of piping diameter for the various burners, depending on the difference in height between the burner and the tank and their distance.

| MAXIMUM EQUIVALENT LENGTH FOR THE PIPING L[m] | | | | | | | | | | | | |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Model | PRESS GW | | | PRESS 1G - 2G | | | PRESS 3G | | | PRESS 4G | | |
| | Ø8mm | Ø10mm | Ø12mm | Ø10mm | Ø12mm | Ø14mm | Ø12mm | Ø14mm | Ø16mm | Ø12mm | Ø14mm | Ø16mm |
| +H, -H (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) | L _{max} (m) |
| +4,0 | 35 | 90 | 152 | 63 | 144 | 150 | 71 | 139 | 151 | 44 | 88 | 158 |
| +3,0 | 30 | 80 | 152 | 55 | 127 | 150 | 62 | 123 | 151 | 38 | 77 | 140 |
| +2,0 | 26 | 69 | 152 | 48 | 111 | 150 | 53 | 106 | 151 | 33 | 66 | 121 |
| +1,0 | 21 | 59 | 130 | 40 | 94 | 150 | 45 | 90 | 151 | 27 | 56 | 103 |
| +0,5 | 19 | 53 | 119 | 37 | 86 | 150 | 40 | 82 | 151 | 24 | 50 | 94 |
| 0 | 17 | 48 | 108 | 33 | 78 | 150 | 36 | 74 | 137 | 21 | 45 | 85 |
| -0,5 | 15 | 43 | 97 | 29 | 70 | 133 | 32 | 66 | 123 | 18 | 40 | 76 |
| -1,0 | 13 | 37 | 86 | 25 | 62 | 118 | 28 | 58 | 109 | 15 | 34 | 66 |
| -2,0 | 9 | 27 | 64 | 17 | 45 | 88 | 19 | 42 | 81 | 9 | 23 | 48 |
| -3,0 | 4 | 16 | 42 | 10 | 29 | 58 | 10 | 26 | 53 | - | 13 | 30 |
| -4,0 | - | 6 | 20 | - | 12 | 28 | - | 10 | 25 | - | - | 12 |



| | |
|----|---|
| H | Difference in height pump-foot valve |
| Ø | Internal pipe diameter |
| P | Height 10 m |
| V | Height 4 m |
| 1 | Burner |
| 2 | Burner pump |
| 3 | Filter |
| 4 | Manual shut off valve |
| 5 | Suction pipework |
| 6 | Bottom valve |
| 7 | Remote controlled rapid manual shut off valve (compulsory in Italy) |
| 8 | Type approved shut off solenoid valve (compulsory in Italy) |
| 9 | Return pipework |
| 10 | Check valve |

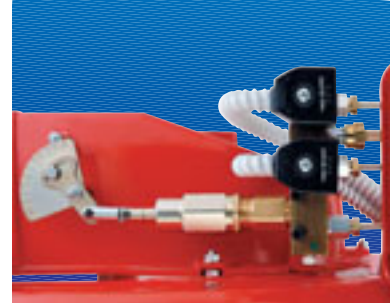
note With ring distribution oil systems, the feasible drawings and dimensioning are the responsibility of specialised engineering studios, who must check compatibility with the requirements and features of each single installation.



VENTILATION

The ventilation circuit of PRESS burners is inserted in a extremely compact structure and it is provided with a forward blades centrifugal fan, which guarantees high pressure levels at the required air deliveries and permits installation flexibility.

Delivery oil valves opening supplies the adjustable hydraulic ram which regulates air delivery in relation to the fuel burnt on 2nd stage.



Example of air damper indexed selector and hydraulic ram of PRESS G burners



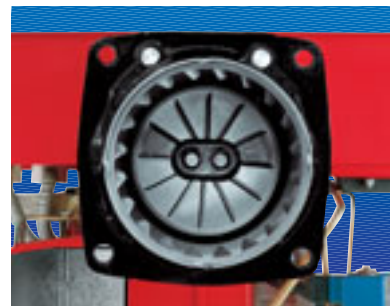
COMBUSTION HEAD

For the PRESS G series of burners a special kit for increasing combustion head length is available.

The choice of using it depends on the thickness of the front panel and the type of boiler.

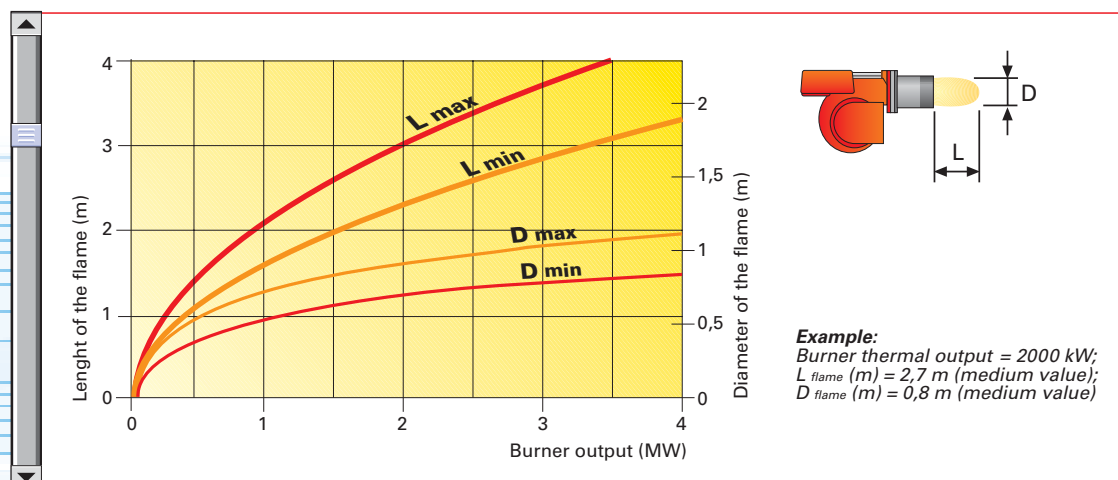
Depending on the type of generator, check that the penetration of the head into the combustion chamber is correct.

The internal position of the combustion head can easily be adjusted to the maximum defined output by adjusting a screw.



Example of a PRESS G burner combustion head

Dimensions of the flame

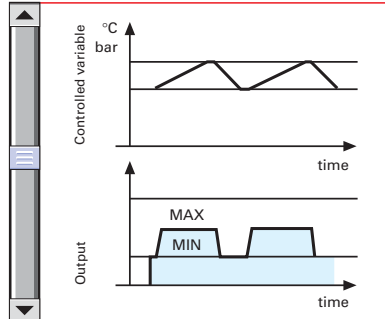


ADJUSTMENT



BURNER OPERATION MODE

Two stage operation



With two stage operation, the PRESS G burners can follow the temperature load requested by the system.

A modulation ratio of 2:1 is reached, thanks to the "two nozzles" technique; the air is adapted to the hydraulic ram positions. On two stage operation, the burner gradually adjusts output to the requested level, by varying between the two pre-set levels (see picture A).

Picture A

All PRESS G series burners are fitted with a new microprocessor control panel for the supervision during intermittent operation.

For helping the commissioning and maintenance work, there are two main elements:

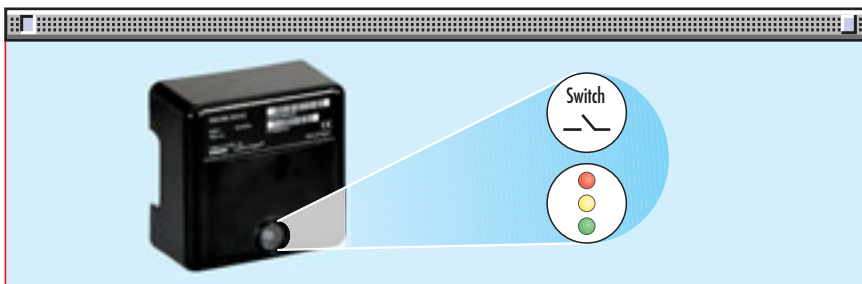


The lock-out reset button is the central **operating element** for resetting the burner control and for activating / deactivating the diagnostic functions.



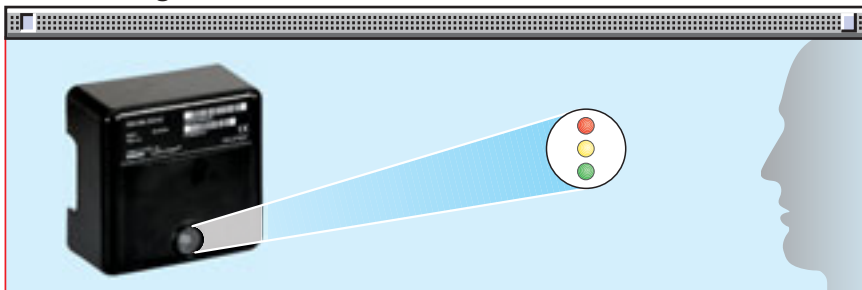
The multi-color LED is the central **indication element** for visual diagnosis and interface diagnosis.

Both elements are located under the transparent cover of lock-out reset button, as showed below.

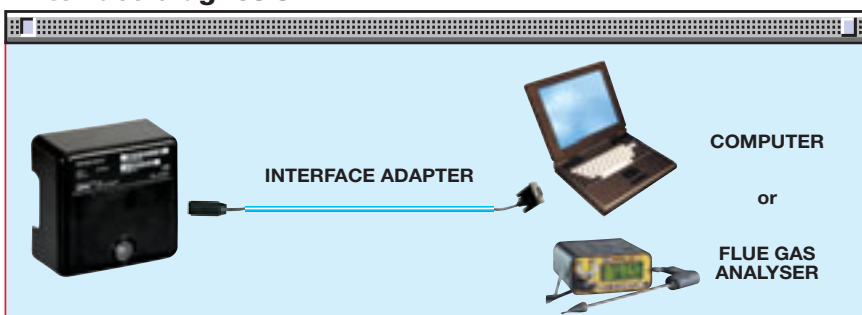


There are two diagnostic choices, for indication of operation and diagnosis of fault cause:

- visual diagnosis :



- interface diagnosis :



by the interface adapter and a PC with dedicated software or by a predisposed flue gas analyzer (see paragraph accessories).





Indication of operation :

In normal operation, the various status are indicated in the form of colour codes according to the table below.

The interface diagnosis (with adapter) can be activated by pressing the lock-out button for > 3 seconds.

| Color code table | |
|-----------------------------|------------------|
| Operation status | Color code table |
| Stand-by | ○ ○ ○ ○ ○ ○ ○ ○ |
| Pre-purging | ☀ ☀ ☀ ☀ ☀ ☀ ☀ ☀ |
| Ignition phase | ☀ ○ ☀ ○ ☀ ○ ☀ ○ |
| Flame OK | ☘ ☘ ☘ ☘ ☘ ☘ ☘ ☘ |
| Poor flame | ☘ ○ ☘ ○ ☘ ○ ☘ ○ |
| Undervoltage, built-in fuse | ☀ ☀ ☀ ☀ ☀ ☀ ☀ ☀ |
| Fault, alarm | ☀ ☀ ☀ ☀ ☀ ☀ ☀ ☀ |
| Extraneous light | ☀ ☘ ☘ ☘ ☘ ☘ ☘ ☘ |

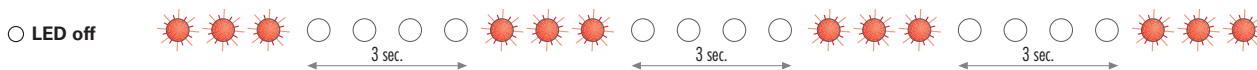
○ LED off

Diagnosis of fault causes :

After lock-out has occurred, the red signal lamp is steady on. In this status, the visual fault diagnosis according to the error code table can be activated by pressing the lock-out reset button for > 3 seconds. The interface diagnosis (with adapter) can be activated by pressing again the lock-out button for > 3 seconds.

The flashes of red LED are a signal with this sequence :

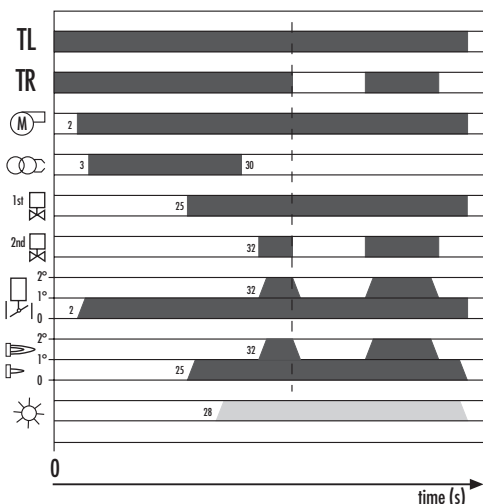
(e.g. signal with n° 3 flashes – faulty air pressure monitor)



| Error code table | |
|---|-----------------------------------|
| Possible cause of fault | Flash code |
| No establishment of flame at the end of safety time : - faulty or soiled fuel valves - faulty or soiled flame detector - poor adjustment of burner, no fuel - faulty ignition equipment | 2 flashes ☀ ☀ |
| Faulty air pressure monitor | 3 flashes ☀ ☀ ☀ |
| Extraneous light or simulation of flame on burner start up | 4 flashes ☀ ☀ ☀ ☀ |
| Loss of flame during operation : - faulty or soiled fuel valves - faulty or soiled flame detector - poor adjustment of burner | 7 flashes ☀ ☀ ☀ ☀ ☀ ☀ ☀ |
| Wiring error or internal fault | 10 flashes ☀ ☀ ☀ ☀ ☀ ☀ ☀ ☀ ☀ ☀ |

START UP CYCLE

PRESS GW - 1G - 2G - 3G - 4G



- 0" The control device TL closes.
- 2" The motor starts running.
- 3" The ignition transformer is connected.
Pre-purging begins with the 1st stage air delivery.
- 25" Firing: 1st delivery valve is opened.
- 30" The ignition transformer switches off; output can be increased to 2nd stage.
- 39" The starting cycle comes to an end.

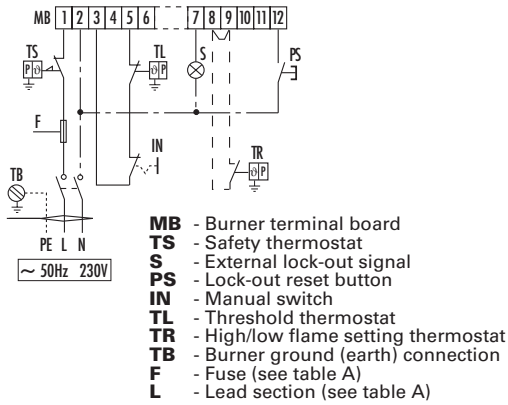
WIRING DIAGRAMS

Electrical connections must be made by qualified and skilled personnel, according to the local norms.

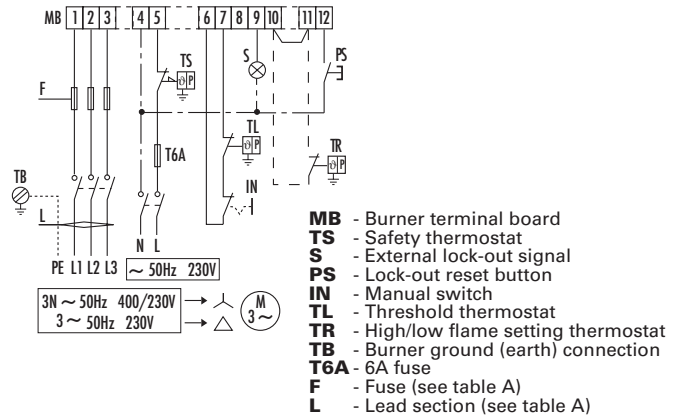


TWO STAGE OPERATION

PRESS GW single-phase electrical connection



PRESS 1G - 2G - 3G - 4G three-phase electrical connection



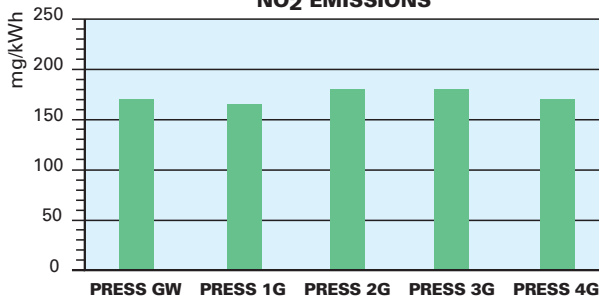
The following table shows the supply lead sections and the type of fuse to be used.

Table A

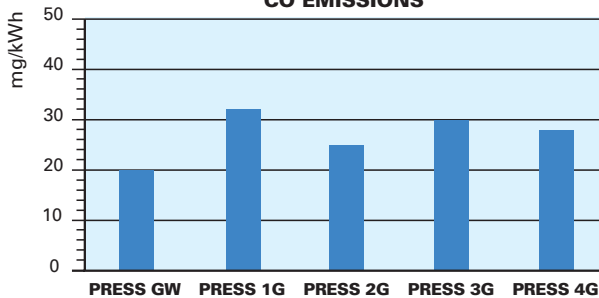
| Model | ▼ PRESS GW | ▼ PRESS 1G | | ▼ PRESS 2G | | ▼ PRESS 3G | | ▼ PRESS 4G | |
|-------------------|------------|------------|------|------------|------|------------|------|------------|------|
| | 230V | 230V | 400V | 230V | 400V | 230V | 400V | 230V | 400V |
| F A | gG6 | T6 | T6 | T6 | T6 | T16 | T10 | T25 | T16 |
| L mm ² | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 2,5 | 1,5 |

EMISSIONS

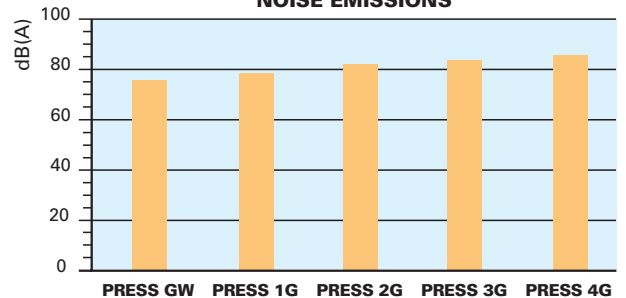
NO₂ EMISSIONS



CO EMISSIONS



NOISE EMISSIONS



The emission data has been measured in the various models at maximum output, conforming to EN 267 standard.

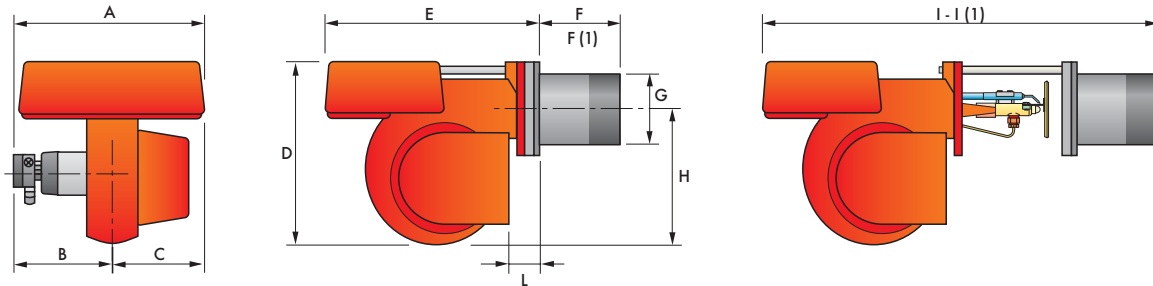




OVERALL DIMENSIONS (mm)



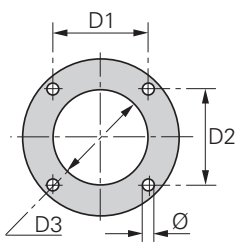
BURNER



| Model | A | B | C | D | E | F - F (1) | G | H | I - I (1) | L |
|-------------------|-----|-----|-----|-----|-----|-----------|-----|-----|-------------|-----|
| ▶ PRESS GW | 439 | 234 | 205 | 397 | 473 | 185 - 320 | 140 | 292 | 930 - 1065 | 59 |
| ▶ PRESS 1G | 475 | 270 | 205 | 397 | 473 | 237 - 370 | 150 | 292 | 980 - 1115 | 59 |
| ▶ PRESS 2G | 475 | 270 | 205 | 437 | 506 | 245 - 403 | 155 | 332 | 1030 - 1190 | 89 |
| ▶ PRESS 3G | 611 | 406 | 205 | 485 | 570 | 254 - 412 | 175 | 370 | 1100 - 1270 | 88 |
| ▶ PRESS 4G | 675 | 354 | 316 | 590 | 720 | 266 - 426 | 205 | 445 | 1265 - 1425 | 175 |

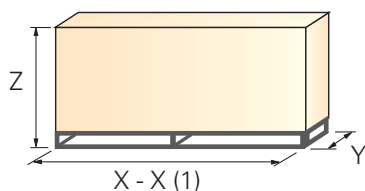
(1) Length with extended combustion head

BURNER - BOILER MOUNTING FLANGE



| Model | D1 | D2 | D3 | Ø |
|-------------------|-----|-----|-----|-----|
| ▶ PRESS GW | 160 | 160 | 155 | M10 |
| ▶ PRESS 1G | 160 | 160 | 165 | M10 |
| ▶ PRESS 2G | 160 | 160 | 165 | M10 |
| ▶ PRESS 3G | 195 | 195 | 185 | M12 |
| ▶ PRESS 4G | 230 | 230 | 210 | M12 |

PACKAGING



| Model | X - X (1) | Y | Z | kg |
|-------------------|-----------|-----|-----|----|
| ▶ PRESS GW | 695 | 542 | 468 | 37 |
| ▶ PRESS 1G | 745 | 542 | 468 | 44 |
| ▶ PRESS 2G | 800 | 542 | 515 | 44 |
| ▶ PRESS 3G | 905 | 680 | 563 | 55 |
| ▶ PRESS 4G | 1045 | 727 | 660 | 95 |

(1) Length with extended combustion head

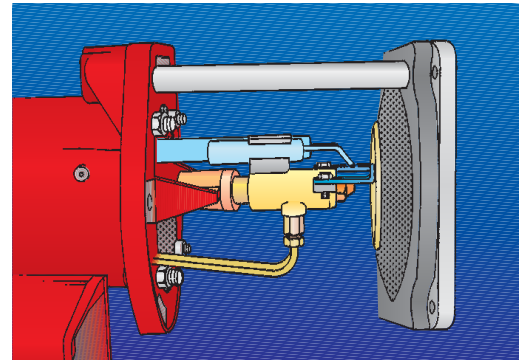
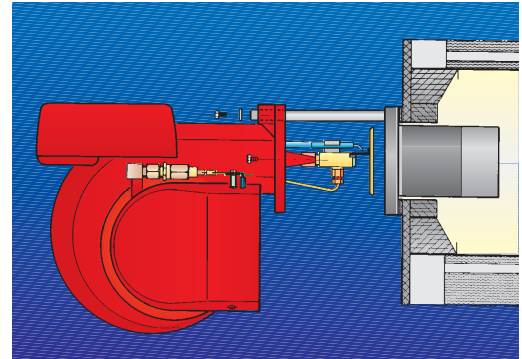
INSTALLATION DESCRIPTION

Installation, start up and maintenance must be carried out by qualified and skilled personnel. All operations must be performed in accordance with the technical handbook supplied with the burner.



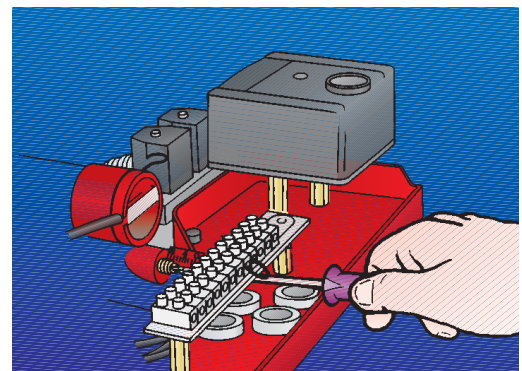
BURNER SETTING

- ▶ All the burners have slide bars, for easier installation and maintenance.
- ▶ After drilling the boilerplate, using the supplied gasket as a template, dismantle the blast tube from the burner and fix it to the boiler.
- ▶ Refit the burner casing to the slide bars.
- ▶ Install the nozzles, choosing these on the basis of the maximum boiler output and following the diagrams included in the burner instruction handbook.
- ▶ Check the position of the electrodes.
- ▶ Close the burner, sliding it up to the flange, keeping it slightly raised to avoid the flame stability disk rubbing against the blast tube.
- ▶ Adjust the combustion head.



HYDRAULIC AND ELECTRICAL CONNECTIONS AND START UP

- ▶ The burners are supplied for connection to two pipes fuel supply system.
- ▶ Connect the ends of the flexible pipes to the suction and return pipework using the supplied nipples.
- ▶ Make the electrical connections to the burner following the wiring diagrams included in the instruction handbook.
- ▶ Prime the pump by turning the motor.
- ▶ On start up, check:
 - Pressure pump (to max. and min.)
 - Combustion quality, in terms of unburned substances and excess air.





ACCESSORIES



Nozzles

The nozzles must be ordered separately. The following table shows the features and codes on the basis of the maximum required fuel output.

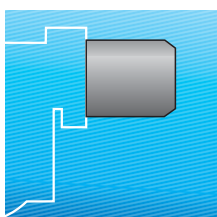


| Nozzles type 60° B | | | |
|--------------------|-------|----------------------|----------------|
| Burner | GPH | Rated output (kg/h)* | Nozzle code |
| PRESS GW - 1G | 2,00 | 8,5 | 3042126 |
| PRESS GW - 1G | 2,50 | 10,6 | 3042140 |
| PRESS GW - 1G | 3,00 | 12,7 | 3042158 |
| PRESS GW - 1G | 3,50 | 14,8 | 3042162 |
| PRESS GW - 1G - 2G | 4,00 | 17 | 3042172 |
| PRESS 1G - 2G | 4,50 | 19,1 | 3042182 |
| PRESS 1G - 2G | 5,00 | 21,2 | 3042192 |
| PRESS 1G - 2G | 5,50 | 23,3 | 3042202 |
| PRESS 2G - 3G | 6,00 | 25,5 | 3042212 |
| PRESS 2G - 3G | 6,50 | 27,6 | 3042222 |
| PRESS 2G - 3G | 7,00 | 29,7 | 3042232 |
| PRESS 3G | 7,50 | 31,8 | 3042242 |
| PRESS 3G | 8,00 | 33,9 | 3042252 |
| PRESS 3G | 8,50 | 36,1 | 3042262 |
| PRESS 3G - 4G | 9,50 | 40,3 | 3042282 |
| PRESS 3G - 4G | 10,00 | 42,4 | 3042292 |
| PRESS 3G - 4G | 11,00 | 46,7 | 3042312 |
| PRESS 3G - 4G | 12,00 | 50,9 | 3042322 |
| PRESS 4G | 13,00 | 55,1 | 3042332 |
| PRESS 4G | 14,00 | 59,4 | 3042352 |
| PRESS 4G | 15,00 | 63,6 | 3042362 |
| PRESS 4G | 16,00 | 67,9 | 3042382 |
| PRESS 4G | 17,00 | 72,1 | 3042392 |
| PRESS 4G | 18,00 | 76,4 | 3042412 |

(*) Nozzles rated delivery is referred to atomised pressure

Extended head kit

“Standard head” burners can be transformed into “extended head” versions, by using the special kit. The kits available for the various burners, giving the original and the extended lengths, are listed below.

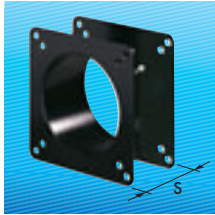


| Extended head kit | | | |
|-------------------|---------------------------|---------------------------|----------------|
| Burner | Standard head length (mm) | Extended head length (mm) | Kit code |
| PRESS GW | 185 | 320 | 3000581 |
| PRESS 1G | 237 | 370 | 3000537 |
| PRESS 2G | 245 | 403 | 3000538 |
| PRESS 3G | 254 | 412 | 3000851 |
| PRESS 4G | 266 | 426 | 3000555 |



Spacer kit

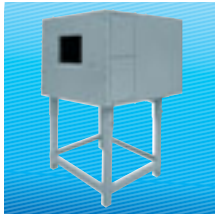
If burner head penetration into the combustion chamber needs reducing, varying thickness spacers are available, as given in the following table:



| Spacer kit | | |
|------------------------------|-------------------------|----------------|
| Burner | Spacer thickness S (mm) | Kit code |
| PRESS GW - 1G - 2G - 3G - 4G | 142 | 3000755 |

Sound proofing box

If noise emission needs reducing even further, sound-proofing boxes are available, as given in the following table:



| Sound proofing box | | | |
|-------------------------|----------|-------------------------------------|----------------|
| Burner | Box type | Average noise reduction [dB(A)] (*) | Box code |
| PRESS GW - 1G - 2G - 3G | C1/3 | 10 | 3010403 |
| PRESS 4G | C4/5 | 10 | 3010404 |

(*) according to EN 15036-1 standard

Degasing unit

With single pipe systems, you can find air in the oil sucked by the pump that comes from the oil itself due to negative pressure or to a faulty seal.

To solve this problem, we recommend fitting a degasing unit near the burner. Two versions are available with or without filter:



| Degasing unit | | |
|------------------------------|----------------|--------------------|
| Burner | Filter | Degasing unit Code |
| PRESS GW - 1G - 2G - 3G - 4G | With filter | 3010055 |
| PRESS GW - 1G - 2G - 3G - 4G | Without filter | 3010054 |

Air damper complete closure kit

To minimize thermal dispersion caused by the stack draught sucking air from the fan's suction opening, an "air damper complete closure kit" is available.

This is composed by a hydraulic ram, which closes the air damper completely when the burner shuts down.



| Air damper complete closure kit | |
|---------------------------------|----------------|
| Burner | Kit code |
| PRESS GW | 3000853 |
| PRESS 1G | 3000854 |
| PRESS 2G | 3000855 |
| PRESS 3G | 3000856 |
| PRESS 4G | 3000857 |

PC interface kit

To connect the flame control panel to a personal computer for the transmission of operation, fault signals and detailed service information, an interface adapter with PC software are available.



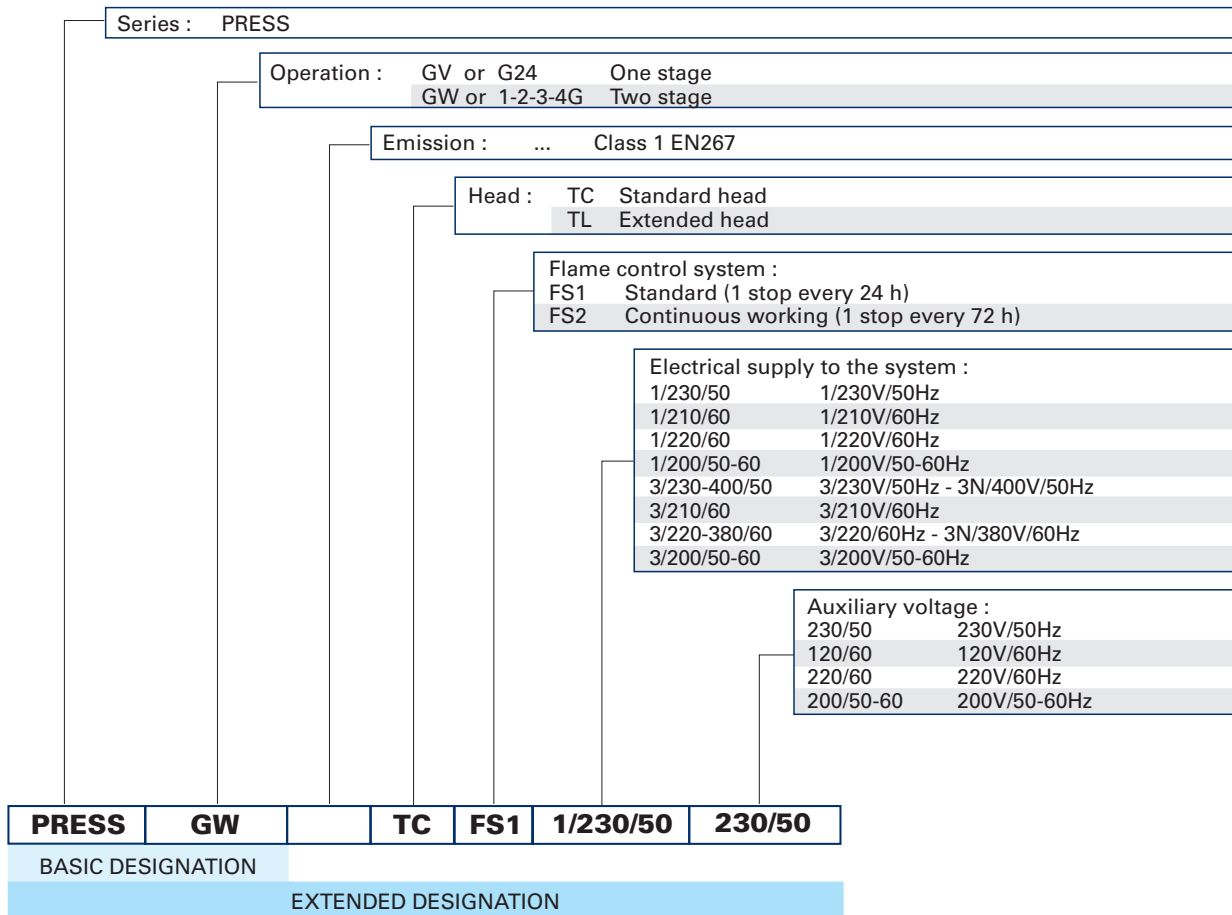
| PC interface kit | |
|------------------------------|----------------|
| Burner | Kit code |
| PRESS GW - 1G - 2G - 3G - 4G | 3002719 |



SPECIFICATION

A specific index guides your choice of burner from the various models available in the PRESS G series. Below is a clear and detailed specification description of the product.

DESIGNATION OF SERIES PRESS BURNERS



LIST OF AVAILABLE MODELS

| | | | | | | | | | | |
|-------------|----|-----|--------------|-----------|-----|----------|----|-----|--------------|------------|
| PRESS GW | TC | FS1 | 3/230-400/50 | 230/50 | (1) | PRESS 3G | TC | FS1 | 3/200/50-60 | 200/50-60 |
| PRESS GBW | TC | FS1 | 1/230/50 | 230/50 | | PRESS 3G | TC | FS1 | 3/230-400/50 | 230/50 |
| PRESS GW | TC | FS1 | 1/200/50-60 | 200/50-60 | | PRESS 3G | TC | FS1 | 3/210/60 | 120/60 |
| PRESS GW | TC | FS1 | 1/220/60 | 220/60 | | PRESS 3G | TC | FS1 | 3/220-380/60 | 220/60 |
| PRESS GW | TC | FS1 | 1/230/50 | 230/50 | (1) | PRESS 3G | TC | FS1 | 3/230-400/50 | 230/50 (1) |
| PRESS GW/35 | TC | FS1 | 1/220/60 | 220/60 | | | | | | |
| PRESS 1G | TC | FS1 | 3/230-400/50 | 230/50 | | PRESS 4G | TC | FS1 | 3/230-400/50 | 230/50 |
| PRESS 1G | TC | FS1 | 3/200/50-60 | 200/50-60 | | PRESS 4G | TC | FS1 | 3/200/50-60 | 200/50-60 |
| PRESS 1G | TC | FS1 | 1/210/60 | 120/60 | | PRESS 4G | TC | FS1 | 3/220-380/60 | 220/60 |
| PRESS 1G | TC | FS1 | 3/210/60 | 120/60 | | PRESS 4G | TC | FS1 | 3/230-400/50 | 230/50 (1) |
| PRESS 1G | TC | FS1 | 3/220-380/60 | 220/60 | | | | | | |
| PRESS 1G | TC | FS1 | 3/230-400/50 | 230/50 | (1) | | | | | |
| PRESS 2G | TC | FS1 | 3/230-400/50 | 230/50 | | | | | | |
| PRESS 2G | TC | FS1 | 3/200/50-60 | 200/50-60 | | | | | | |
| PRESS 2G | TC | FS1 | 1/210/60 | 120/60 | | | | | | |
| PRESS 2G | TC | FS1 | 3/210/60 | 120/60 | | | | | | |
| PRESS 2G | TC | FS1 | 3/220-380/60 | 220/60 | | | | | | |
| PRESS 2G | TC | FS1 | 3/230-400/50 | 230/50 | (1) | | | | | |

**(1) Available also in bio diesel fuel version
Other versions are available on request.**



▶ PRODUCT SPECIFICATION

Burner:

Monoblock forced draught oil burner with two stage operation, fully automatic, made up of:

- Air suction circuit lined with sound-proofing material
- Fan with forward curve blades with high performance concerning pressure and air delivery
- Air damper for air setting
- Hydraulic ram for air damper control
- Starting motor at 2800 rpm, three-phase 400V with neutral, 50Hz (single-phase, 230V and 50Hz for the PRESS GW model)
- Combustion head, that can be set on the basis of required output, fitted with:
 - stainless steel end cone, resistant to corrosion and high temperatures
 - ignition electrodes
 - flame stability disk
- Fan pressure test point
- Gears pump for high pressure fuel supply, fitted with:
 - filter
 - pressure regulator
 - connections for installing a pressure gauge and vacuumeter
 - internal by-pass for single pipe installation
- Valve unit with two delivery oil valves on the output circuit
- Photocell for flame detection
- Microprocessor-based flame control panel, with diagnostic function
- Slide bars for easier installation and maintenance
- Protection filter against radio interference
- IP 44 electric protection level.

Conforming to:

- 89/336/EEC directive (electromagnetic compatibility)
- 73/23/EEC directive (low voltage)
- 92/42/EEC directive (performance)
- 98/37/EEC directive (machinery)
- EN 267 (liquid fuel burners).

Standard equipment:

- 2 flexible pipes for connection to the oil supply network
- 2 gaskets for the flexible pipes
- 2 nipples for connection to the pump
- 4 screws for fixing the burner flange to the boiler
- 1 thermal screen
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

Available accessories to be ordered separately:

- Nozzles
- Head extension kit
- Head length reduction kit
- Sound-proofing box
- Degassing unit (with or without filter)
- Air damper complete closure kit
- PC interface kit.





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