

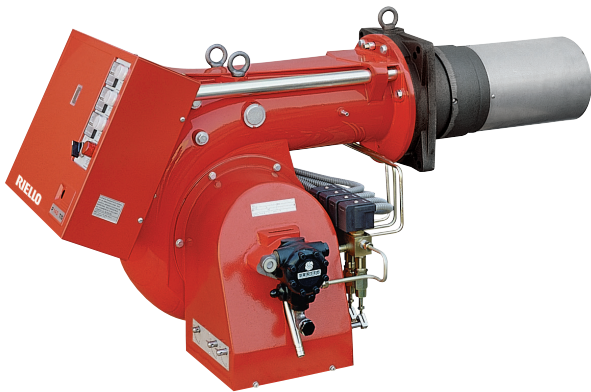
PRESS T/G SERIES

The PRESS T/G series of burners covers a firing range from 830 to 5340 kW.

Available in 4 different models, this burners are particularly well suited for matching with pressurized chamber boilers. For their characteristics, they find application in big civil plants for domestic heating or in industrial applications where thermal load is repetitive and predictable.

An hydraulic ram exclusive system, with 3 adjustable positions, regulates dampers opening, allowing air passage in relation to output required: in this way flame stability is optimized in every working point, with micro-regulation available.

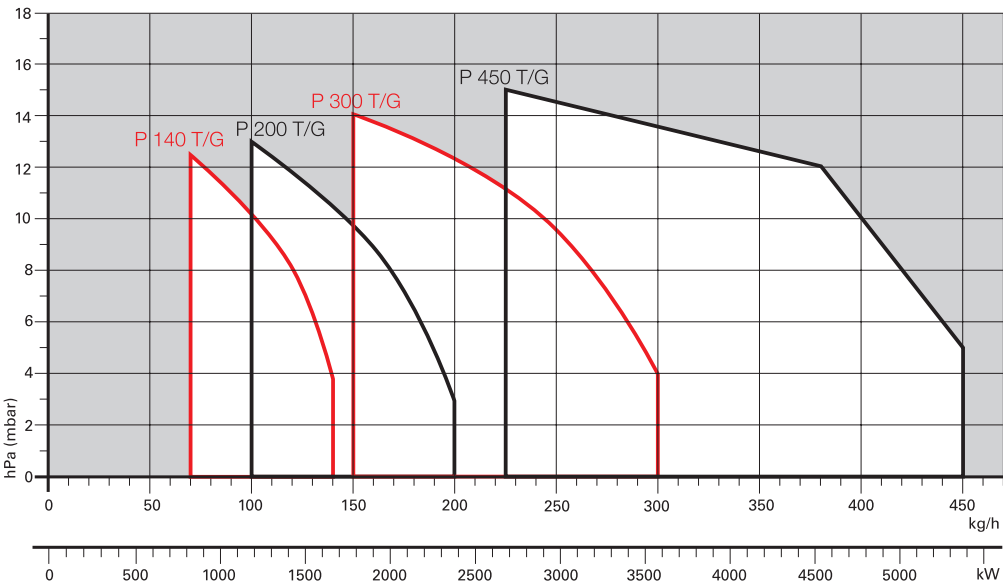
The burners are fitted with a microprocessor-based burner safety control box which supplies indication of operation and diagnosis of fault cause.



LIGHT OIL

|           |                 |    |
|-----------|-----------------|----|
| P 140 T/G | 380/830 ÷ 1660  | kW |
| P 200 T/G | 557/1186 ÷ 2372 | kW |
| P 300 T/G | 712/1779 ÷ 3560 | kW |
| P 450 T/G | 890/2670 ÷ 5340 | kW |

FIRING RATES



Useful working field for choosing the burner

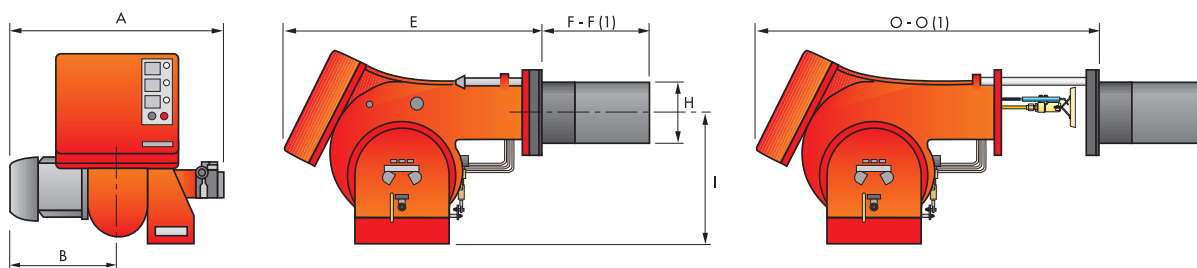
Test conditions conforming to EN267  
Temperature: 20°C  
Pressure: 1013,5 mbar  
Altitude: 0 m a.s.l.

# Three Stage Light Oil Burners

## PRESS T/G SERIES

### Overall dimensions (mm)

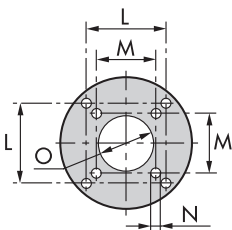
#### BURNER



| MODEL       | A   | B   | E    | F - F (1) | H   | I   | O - O (1)   |
|-------------|-----|-----|------|-----------|-----|-----|-------------|
| ► P 140 T/G | 765 | 365 | 890  | 363 - 473 | 222 | 467 | 1250 - 1360 |
| ► P 200 T/G | 796 | 396 | 890  | 391 - 501 | 250 | 467 | 1280 - 1390 |
| ► P 300 T/G | 858 | 447 | 1000 | 444 - 574 | 295 | 496 | 1440 - 1570 |
| ► P 450 T/G | 950 | 508 | 1070 | 476 - 606 | 336 | 525 | 1546 - 1676 |

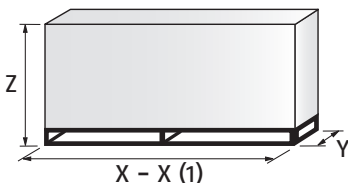
(1) Length with extended combustion head.

#### BURNER - BOILER MOUNTING FLANGE



| MODEL       | L   | M   | N   | O   |
|-------------|-----|-----|-----|-----|
| ► P 140 T/G | 260 | 230 | M14 | 225 |
| ► P 200 T/G | 260 | -   | M16 | 255 |
| ► P 300 T/G | 260 | -   | M18 | 300 |
| ► P 450 T/G | 310 | -   | M20 | 340 |

#### PACKAGING



| MODEL       | X - X (1) | Y    | Z    | kg  |
|-------------|-----------|------|------|-----|
| ► P 140 T/G | 1740      | 990  | 950  | 130 |
| ► P 200 T/G | 1740      | 990  | 950  | 220 |
| ► P 300 T/G | 2040      | 1180 | 1125 | 238 |
| ► P 450 T/G | 2040      | 1180 | 1125 | 300 |

(1) Length with extended combustion head.

## DESIGNATION OF SERIES

## LIGHT OIL

# Three Stage Light Oil Burners

## PRESS T/G SERIES

### Specification

#### STATE OF SUPPLY

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

- Air suction circuit lined with sound-proofing material
- Fan with forward curved blades high performance pressure levels
- Air dampers for air setting controlled by a three stage hydraulic ram
- Starting motor at 2850 rpm, three-phase 400 V with neutral, 50 Hz
- Combustion head, that can be set on the basis of the combustion output, fitted with:
  - stainless steel end cone, resistant to corrosion and high temperatures
  - ignition electrodes
  - flame stability disk
- 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 a oil safety valve and three oil delivery valves on the output circuit;
- Photocell for flame detection
- Microprocessor based burner safety control box, with diagnostic function
- Burner on/off switch
- Flame inspection window
- Slide bars for easier installation and maintenance
- Protection filter against radio interference
- IP X0D (IP 40) electric protection level.

#### Standard equipment:

- 2 flexible pipes for connection to the oil supply network
- 2 nipples for the connection to the pump
- 4 wiring looms fittings for electrical connections
- 4 screws for fixing the burner flange to the boiler
- 2 slide bar extensions (for the extended model of P 300 T/G and P 450 T/G)
- Gasket for flange
- 1 Star Delta starter (On models where provided)
- Diffuser disk (P 450 T/G)
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

# Three Stage Light Oil Burners

## PRESS T/G SERIES

**RIELLO**

## Available models

| CODE    | MODEL     |     |    |     |              |        | HEAT OUTPUT   |            | TOTAL ELECTRICAL POWER<br>(kW) | CERTIFICATION | NOTE |
|---------|-----------|-----|----|-----|--------------|--------|---------------|------------|--------------------------------|---------------|------|
|         |           |     |    |     |              |        | (kW)          | (kg/h)     |                                |               |      |
| 3476823 | PRESS 140 | T/G | TC | FS1 | 3/230-400/50 | 230/50 | 380/830÷1660  | 32/70÷140  | 5.2                            | CE-0441/B     |      |
| 3476824 | PRESS 140 | T/G | TL | FS1 | 3/230-400/50 | 230/50 | 380/830÷1660  | 32/70÷140  | 5.2                            | CE-0441/B     |      |
| 3476885 | PRESS 140 | T/G | TC | FS1 | 3/220-380/60 | 220/60 | 380/830÷1660  | 32/70÷140  | 5.2                            | -             |      |
| 3476886 | PRESS 140 | T/G | TL | FS1 | 3/220-380/60 | 220/60 | 380/830÷1660  | 32/70÷140  | 5.2                            | -             |      |
| 3477723 | PRESS 200 | T/G | TC | FS1 | 3/230-400/50 | 230/50 | 557/1186÷2372 | 47/100÷200 | 5,3                            | CE-0441/B     |      |
| 3477724 | PRESS 200 | T/G | TL | FS1 | 3/230-400/50 | 230/50 | 557/1186÷2372 | 47/100÷200 | 5,3                            | CE-0441/B     |      |
| 3477785 | PRESS 200 | T/G | TC | FS1 | 3/220-380/60 | 220/60 | 557/1186÷2372 | 47/100÷200 | 5,3                            | -             |      |
| 3477786 | PRESS 200 | T/G | TL | FS1 | 3/220-380/60 | 220/60 | 557/1186÷2372 | 47/100÷200 | 5,3                            | -             |      |
| 3478837 | PRESS 300 | T/G | TC | FS1 | 3/230-400/50 | 230/50 | 712/1779÷3560 | 60/150÷300 | 10.9                           | CE-0441/B     |      |
| 3478838 | PRESS 300 | T/G | TL | FS1 | 3/230-400/50 | 230/50 | 712/1779÷3560 | 60/150÷300 | 10.9                           | CE-0441/B     |      |
| 3478839 | PRESS 300 | T/G | TC | FS1 | 3/230/50     | 230/50 | 712/1779÷3560 | 60/150÷300 | 10.9                           | CE-0441/B     | (1)  |
| 3478840 | PRESS 300 | T/G | TL | FS1 | 3/230/50     | 230/50 | 712/1779÷3560 | 60/150÷300 | 10.9                           | CE-0441/B     | (1)  |
| 3478841 | PRESS 300 | T/G | TC | FS1 | 3/400/50     | 230/50 | 712/1779÷3560 | 60/150÷300 | 10.6                           | CE-0441/B     | (1)  |
| 3478842 | PRESS 300 | T/G | TL | FS1 | 3/400/50     | 230/50 | 712/1779÷3560 | 60/150÷300 | 10.6                           | CE-0441/B     | (1)  |
| 3478985 | PRESS 300 | T/G | TC | FS1 | 3/220-380/60 | 220/60 | 712/1779÷3560 | 60/150÷300 | 10.7                           | -             |      |
| 3478986 | PRESS 300 | T/G | TL | FS1 | 3/220-380/60 | 220/60 | 712/1779÷3560 | 60/150÷300 | 10.7                           | -             |      |
| 3479336 | PRESS 450 | T/G | TC | FS1 | 3/230/50     | 230/50 | 890/2670÷5340 | 75/225÷450 | 16.9                           | CE 1002/R     | (1)  |
| 3479337 | PRESS 450 | T/G | TL | FS1 | 3/230/50     | 230/50 | 890/2670÷5340 | 75/225÷450 | 16.9                           | CE 1002/R     | (1)  |
| 3479338 | PRESS 450 | T/G | TC | FS1 | 3/400/50     | 230/50 | 890/2670÷5340 | 75/225÷450 | 16.9                           | CE 1002/R     | (1)  |
| 3479339 | PRESS 450 | T/G | TL | FS1 | 3/400/50     | 230/50 | 890/2670÷5340 | 75/225÷450 | 16.9                           | CE 1002/R     | (1)  |

(1) Star-delta starting, as standard equipment

Net calorific value: 11,8 kWh/kg - 10200 kcal/kg - Viscosity at 20°C: 4÷6 mm²/s (cSt)

The burners of PRESS series are in according to 2004/108 - 2006/95 - 2006/42 EC Directive and EN 267 Norm.

LIGHT OIL

# Three Stage Light Oil Burners

## PRESS T/G SERIES

## Burner accessories

### Nozzles



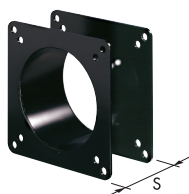
The following list shows the features and codes on the basis of the maximum required fuel output.

NOTE: each burner needs N° 3 nozzles.

| BURNER                  | GPH   | RATED OUTPUT [kg/h] |           |           | NOZZLE CODE |
|-------------------------|-------|---------------------|-----------|-----------|-------------|
|                         |       | at 10 bar           | at 12 bar | at 14 bar |             |
| ► P 140 T/G             | 3,50  | 13,5                | 14,8      | 16,1      | 3042162     |
| ► P 140 T/G             | 4,00  | 15,4                | 17        | 18,4      | 3042172     |
| ► P 140 T/G             | 4,50  | 17,3                | 19,1      | 20,7      | 3042182     |
| ► P 140 T/G – P 200 T/G | 5,00  | 19,2                | 21,2      | 23        | 3042192     |
| ► P 140 T/G – P 200 T/G | 5,50  | 21,1                | 23,3      | 25,3      | 3042202     |
| ► P 140 T/G – P 200 T/G | 6,00  | 23,1                | 25,5      | 27,7      | 3042212     |
| ► P 140 T/G – P 200 T/G | 6,50  | 25                  | 27,6      | 30        | 3042222     |
| ► P 140 T/G – P 200 T/G | 7,00  | 26,9                | 29,7      | 32,3      | 3042232     |
| ► P 140 T/G – P 200 T/G | 7,50  | 28,8                | 31,8      | 34,6      | 3042242     |
| ► P 140 T/G – P 200 T/G | 8,00  | 30,8                | 33,9      | 36,9      | 3042252     |
| ► P 140 T/G – P 200 T/G | 8,50  | 32,7                | 36,1      | 39,2      | 3042262     |
| ► P 140 T/G – P 200 T/G | 9,50  | 36,5                | 40,3      | 43,8      | 3042282     |
| ► P 140 T/G – P 200 T/G | 10,00 | 38,4                | 42,4      | 46,1      | 3042292     |
| ► P 140 T/G – P 200 T/G | 11,00 | 42,3                | 46,7      | 50,7      | 3042312     |
| ► P 200 T/G             | 12,00 | 46,1                | 50,9      | 55,3      | 3042322     |
| ► P 200 T/G             | 13,00 | 50                  | 55,1      | 59,9      | 3042332     |
| ► P 200 T/G – P 300 T/G | 14,00 | 53,8                | 59,4      | 64,5      | 3042352     |
| ► P 200 T/G – P 300 T/G | 15,00 | 57,7                | 63,6      | 69,2      | 3042362     |
| ► P 300 T/G             | 16,00 | 61,5                | 67,9      | 73,8      | 3042382     |
| ► P 300 T/G             | 17,00 | 65,4                | 72,1      | 78,4      | 3042392     |
| ► P 300 T/G – P 450 T/G | 18,00 | 69,2                | 76,4      | 83        | 3042412     |
| ► P 300 T/G – P 450 T/G | 19,00 | 73                  | 80,6      | 87,6      | 3042422     |
| ► P 300 T/G – P 450 T/G | 20,00 | 76,9                | 84,8      | 92,2      | 3042442     |
| ► P 300 T/G – P 450 T/G | 22,00 | 84,6                | 93,3      | 101,4     | 3042462     |
| ► P 300 T/G – P 450 T/G | 24,00 | 92,2                | 101,8     | 110,6     | 3042472     |
| ► P 450 T/G             | 26,00 | 99,9                | 110,3     | 119,9     | 3042482     |
| ► P 450 T/G             | 28,00 | 107,6               | 118,8     | 129,1     | 20018051    |
| ► P 450 T/G             | 30,00 | 110,4               | 122       | 132,4     | 3042502     |
| ► P 450 T/G             | 32,00 | 117,8               | 130,1     | 150,1     | 3042512     |
| ► P 450 T/G             | 35,00 | 128,8               | 142,1     | 154,5     | 3042522     |

## Burner accessories

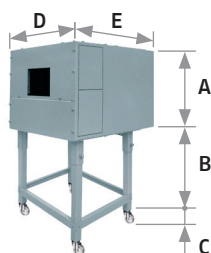
### Spacer kit



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

| BURNER      | SPACER THICKNESS<br>S (mm) | KIT CODE |
|-------------|----------------------------|----------|
| ► P 140 T/G | 102                        | 3000722  |
| ► P 200 T/G | 102                        | 3000722  |
| ► P 300 T/G | 130                        | 3000723  |
| ► P 450 T/G | 130                        | 3000751  |

### Sound proofing box

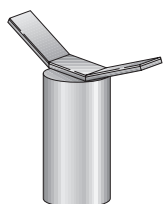


If noise emission needs reducing even further, sound-proofing boxes are available. In case of generator heights, where a lower dimension "B" is required, ask for the Box Support Kit code 20065135. The useful dimensions are 40 mm less than the total dimensions indicated in the table (A, D, E). Not suitable for outdoor use.

| BURNER                   | BOX<br>TYPE | A<br>(mm) | B (mm)<br>min-max | C<br>(mm) | D<br>(mm) | E<br>(mm) | [dB(A)]<br>(*) | BOX CODE |
|--------------------------|-------------|-----------|-------------------|-----------|-----------|-----------|----------------|----------|
| ► P 140 T/G<br>P 200 T/G | C4/5        | 850       | 160 - 980         | 110       | 980       | 930       | 10             | 3010404  |
| ► P 300 T/G<br>P 450 T/G | C7          | 1255      | 160 - 980         | 110       | 1140      | 1345      | 10             | 3010376  |

(\*) Average noise reduction according to EN 15036-1 standard

### Burner support



For easier maintenance, a mobile burner support has been designed, which means the burner can be dismantled without the need of forklift trucks.

| BURNER                  | SUPPORT CODE |
|-------------------------|--------------|
| ► P 300 T/G - P 450 T/G | 3000731      |

## Three Stage Light Oil Burners

### PRESS T/G SERIES

## Burner accessories

### PC Interface kit



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

| BURNER                                          | KIT CODE |
|-------------------------------------------------|----------|
| ► P 140 T/G - P 200 T/G - P 300 T/G - P 450 T/G | 3002719  |

### Protection kit (electromagnetic interferences)

When the burner is installed in a room particularly subject to electromagnetic interference (signals emitted over 10 V/m) due for example to INVERTER presence or in systems where the lengths of the thermostat connections is over 20 meters, this specific protection kit is available as an interface between the thermostatic controls and the burner.

| BURNER       | KIT CODE |
|--------------|----------|
| ► All models | 3010386  |