

RIELLO 40 GI SERIES

The Riello 40 GI series of two stage light oil burners, is a complete range of products developed to respond to any request for residential heating. The Riello 40 GI series is available in three different models, with an output ranging from 54 to 240 kW, divided in two different structures.

All the models use the same components designed by Riello for the Riello 40 GI series. The high quality level guarantees safe working.

In developing these burners, special attention was paid to reducing noise, to the ease of installation and adjustment, to obtaining the smallest size possible to fit into any sort of boiler available on the market.

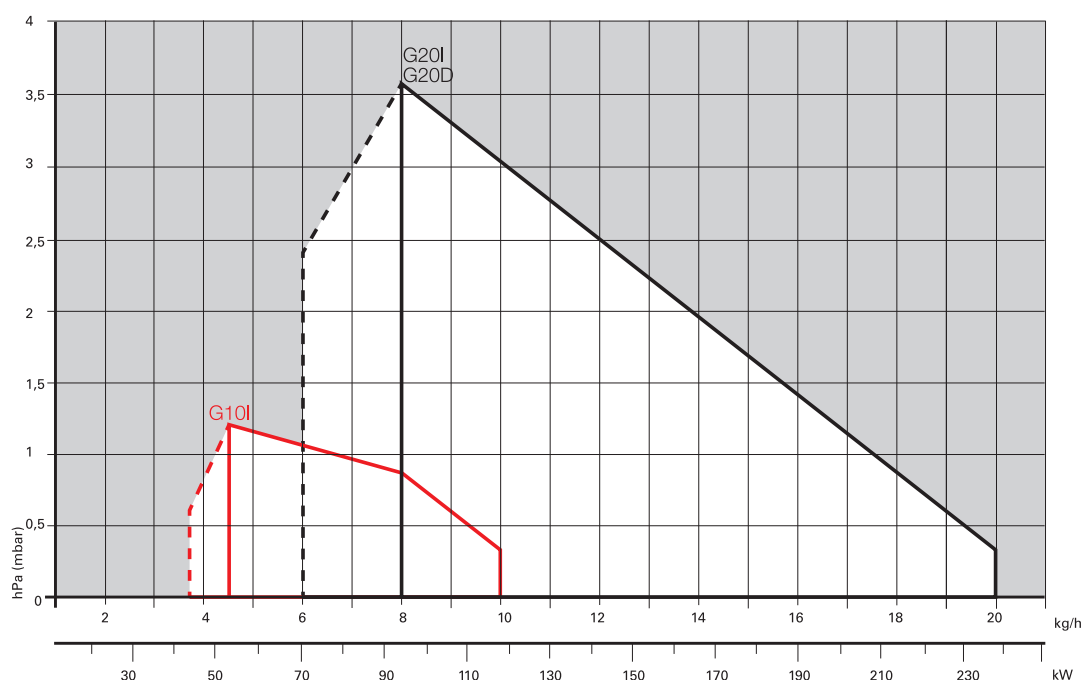
All the models are approved by the EN 267 European Standard and conform to European Directives for EMC, Low Voltage, Machinery and Boiler Efficiency.

All the Riello 40 GI burners are fired before leaving the factory.



| | |
|-------------|----------------|
| G10I | 44/54 ÷ 120 kW |
| G20I | 71/95 ÷ 240 kW |
| G20D | 71/95 ÷ 240 kW |

FIRING RATES



Useful working field for choosing the burner



1st stage operation range

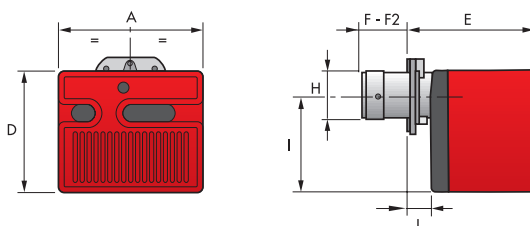
Test conditions conforming to EN267
Temperature: 20°C
Pressure: 1013,5 mbar
Altitude: 0 m a.s.l.

Two Stage Light Oil Burners

RIELLO 40 GI SERIES

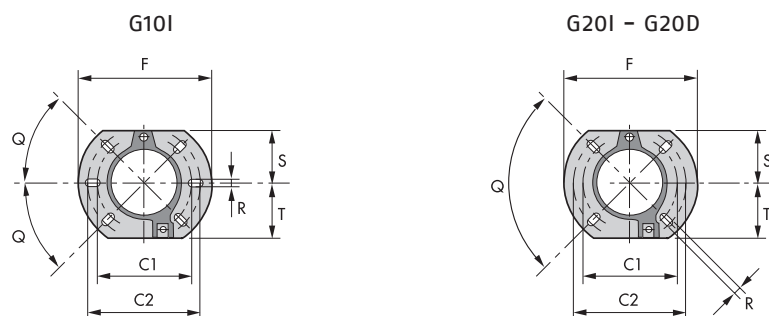
Overall dimensions (mm)

BURNER



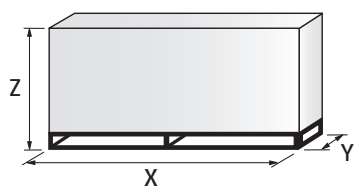
| MODEL | A | D | E | F | F2 | H | I | L |
|---------------|-----|-----|-----|-----|----|-----|-----|----|
| ► G10I | 305 | 262 | 261 | 108 | - | 105 | 204 | 40 |
| ► G20I - G20D | 350 | 298 | 295 | 118 | - | 125 | 230 | 41 |

BURNER - BOILER MOUNTING FLANGE



| MODEL | C1 | C2 | F | Q | R | S | T |
|--------|-----|-----|-----|-----|----|----|----|
| ► G10I | 140 | 170 | 189 | 45° | 11 | 83 | 83 |
| ► G20I | 160 | 190 | 213 | 90° | 11 | 99 | 99 |
| ► G20D | 160 | 190 | 213 | 90° | 11 | 99 | 99 |

PACKAGING



| MODEL | X | Y | Z | kg |
|--------|-----|-----|-----|------|
| ► G10I | 423 | 348 | 340 | 13 |
| ► G20I | 483 | 393 | 377 | 15 |
| ► G20D | 483 | 393 | 377 | 16,3 |

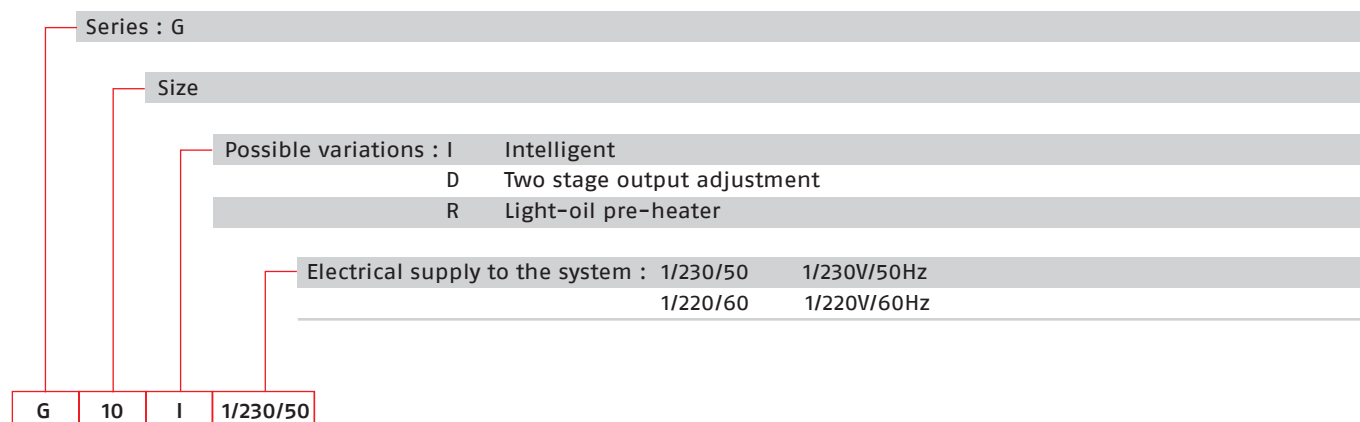
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Specification

DESIGNATION OF SERIES



STATE OF SUPPLY

Completely automatic monobloc light oil burners, two stage operation, made up of:

- Fan with forward curve blades
- Cover lined with sound-proofing material
- Servomotor to drive the air damper to fully closed position at stand-by, low and high fire position
- Single phase electric motor 230 V, 50 Hz
- Combustion head fitted with:
 - stainless steel head cone, resistant to high temperatures
 - ignition electrodes
 - flame stability disk
- Geared pump for fuel supply, fitted with:
 - filter
 - pressure regulator
 - attachments for fitting a pressure gauge and vacuum meter
 - internal by-pass for preparing for single-pipe installations
- Fuel feed solenoid valves incorporated in the pump
- Photocell for flame detection
- Electronic flame control equipment
- Light oil nozzle
- IP X0D (IP 40) protection level
- Reduced output ignition mechanism.

Standard equipment:

- Two flexible pipes for connection to the light oil supply line
- Two nipples for connection to the pump
- Flange, screws and nuts for fixing
- Thermal screen
- 7-pin plug
- 4-pin plug
- External probe (for "I" versions only)
- Maintenance assembly
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

Two Stage Light Oil Burners

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Available models

| CODE | MODEL | | HEAT OUTPUT | | TOTAL ELECTRICAL POWER (kW) | CERTIFICATION | NOTE |
|---------|-------|----------|-------------|--------------|--------------------------------|-------------------|------|
| | | | (kW) | (kg/h) | | | |
| 3746613 | G10I | 1/230/50 | 44/54 - 120 | 3,7/4,5 - 10 | 0,170 | CE - 0036 0258/99 | |
| 3746686 | G10D | 1/220/60 | 44/54 - 120 | 3,7/4,5 - 10 | 0,200 | - | (1) |
| 3748409 | G20I | 1/230/50 | 71/95 - 240 | 6/8 - 20 | 0,330 | CE - 0036 0259/99 | |
| 3748414 | G20D | 1/230/50 | 71/95 - 240 | 6/8 - 20 | 0,330 | CE - 0036 0259/99 | |
| 3748415 | G20D | 1/220/60 | 71/95 - 231 | 6/8 - 19,5 | 0,400 | - | (1) |

(1) Philippines version.

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

The burners of GI series are in according to EN 267.

Bio fuels

Riello Burners is able to offer technical variants which allow burners to be used within environmental heating, process or special applications. These applications now include solutions for liquid Bio fuels (i.e. biodiesel and vegetable oil). Our experience in research and development and field applications with organic origin Bio fuels has resulted in Riello being able to offer a wide range of solutions for the combustion of Bio fuels.

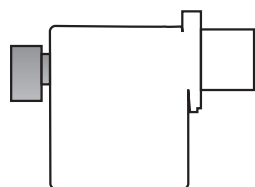
Kerosene and ULSD

Riello 40 GI series burners can be supplied, on demand, suitable for applications where combustion of Kerosene, Low Sulphur Kerosene and Ultra Low Sulphur Diesel Oil (ULSD) is the chosen fuel.

These burner variants can be provided upon request and after a technical-commercial evaluation; for more information please contact Riello Burners Commercial and Technical Department, our Application Engineers will be pleased to help you.

Burner accessories

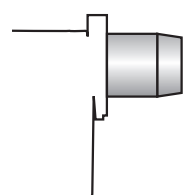
Remote control release kit for 530-531 control boxes



The 530-531 control boxes can be remotely released using an electric command kit. This kit must be installed in conformity with current regulations in force.

| BURNER | KIT CODE |
|--------------|----------|
| ► All models | 3001030 |

Extended head kit



Kits of extended heads are available.

| BURNER | STANDARD HEAD LENGTH (mm) | EXTENDED HEAD LENGTH (mm) | KIT CODE |
|--------|---------------------------|---------------------------|----------|
| ► G10I | 108 | 168 | 3000643 |
| ► G20I | 118 | 178 | 3000644 |
| ► G20D | 118 | 260 | 3000771 |

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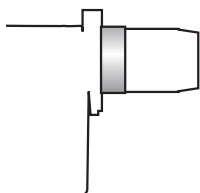
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LIGHT OIL

Burner accessories

Spacer kit



Using the special accessories, the burner can be pulled back to reduce head penetration into the combustion chamber.

| BURNER | SPACER THICKNESS S (mm) | KIT CODE |
|---------------|-------------------------|----------|
| ► G10I | 25 | 3000672 |
| ► G20I – G20D | 25 | 3000673 |

Light oil filter



For cleaning light oil from dirty particles and impurities filters with the following features are available:

| BURNER | FILTERING DEGREE (µm) | KIT CODE |
|--------------|-----------------------|----------|
| ► All models | 60 | 3006561 |

Filter made up of aluminium body and stainless steel filtering cartridge; available singularly.

| BURNER | FILTERING DEGREE (µm) | KIT CODE |
|--------------|-----------------------|----------|
| ► All models | 60 | 3075011 |

Filter made up of aluminium cover, plastic tank and nylon filtering cartridge; available in packaging of 50 pieces.

Light oil filter/degassing unit



To solve problems of air or water in the oil circuit a special filter/degassing unit is available, made up of aluminium cover, plastic tank, stainless steel filtering cartridge, air release cap and water purge valve. It is available singularly.

| BURNER | FILTERING DEGREE (µm) | KIT CODE |
|--------------|-----------------------|----------|
| ► All models | 100 | 3000926 |

7-pin plug kit

If necessary a 7-pin plug kit is available (in packaging of n. 5 pieces).

| BURNER | KIT CODE |
|--------------|----------|
| ► All models | 3000945 |

Hour counter kit for 530 SE and 531 SE control boxes



To measure the burner working time a hour counter kit is available.

| BURNER | KIT CODE |
|--------------|----------|
| ► All models | 3000904 |