

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.

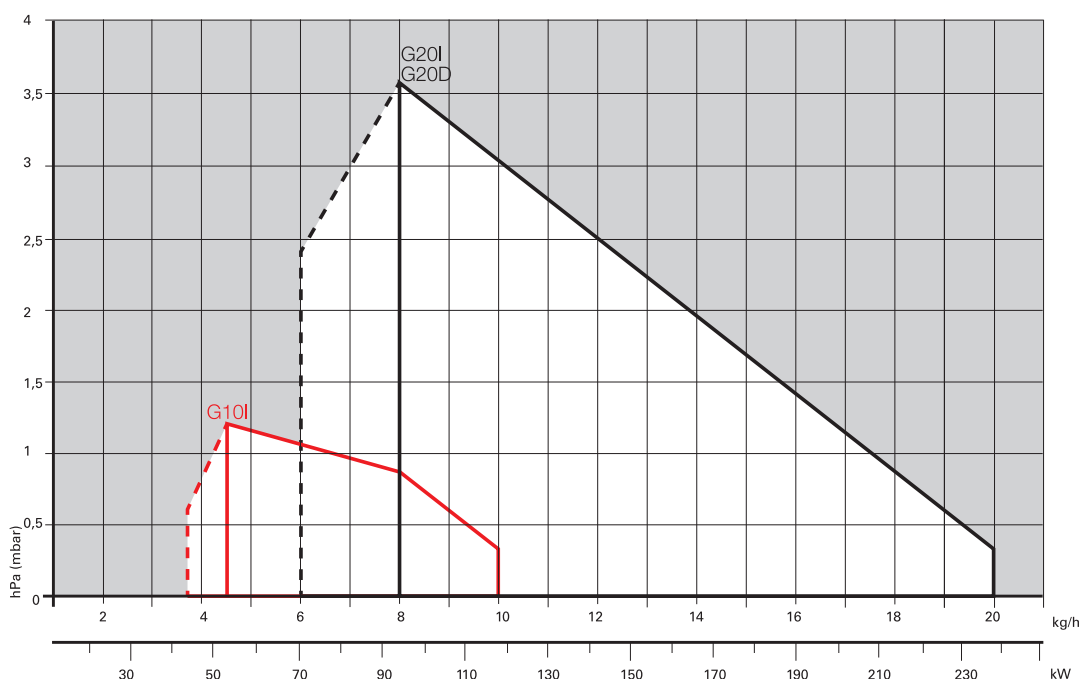
All the models are approved by the EN 267 European Standard and conform to European Directives for EMC, Low Voltage, Machinery and Boiler Efficiency.

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

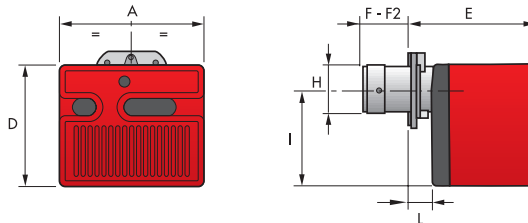
Test conditions conforming to EN267
 Temperature: 20°C
 Pressure: 1013,5 mbar
 Altitude: 0 m a.s.l.

Two Stage Light Oil Burners

RIELLO 40 GI SERIES

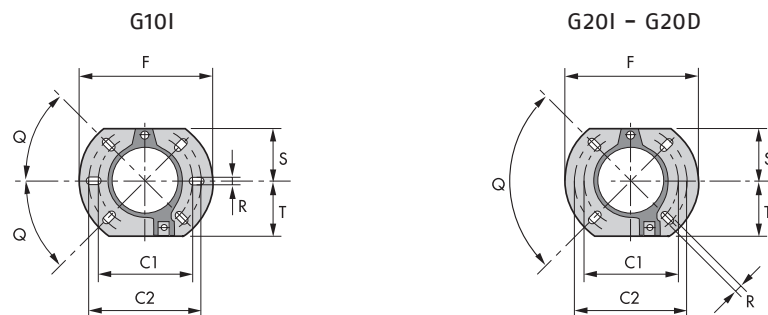
Overall dimensions (mm)

BURNER



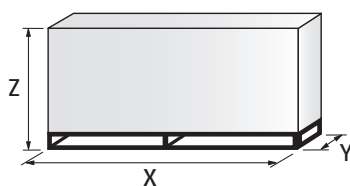
MODEL	A	D	E	F	F2	H	I	L
▶ G10I	305	262	261	108	-	105	204	40
▶ G20I - G20D	350	298	295	118	-	125	230	41

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

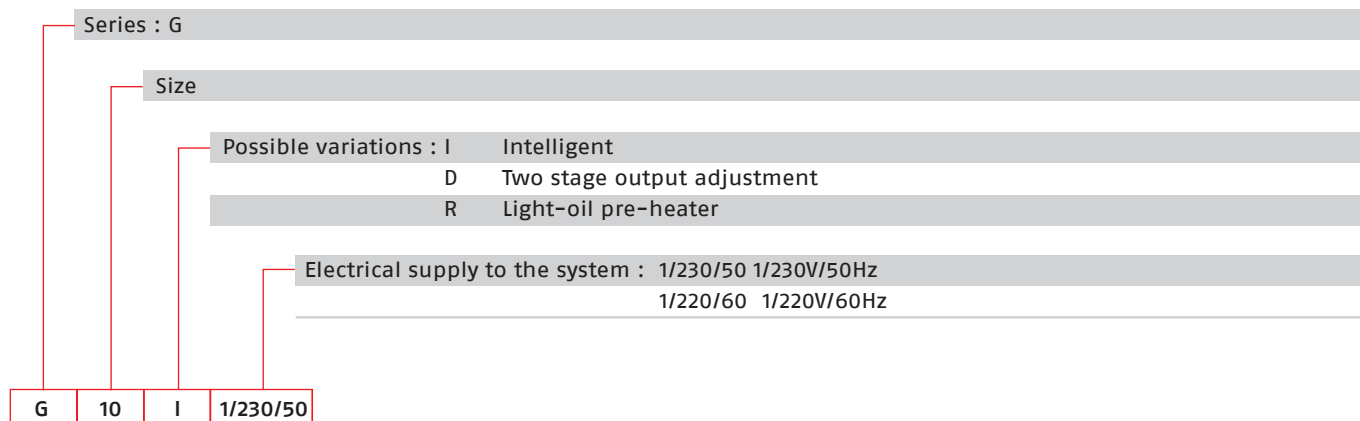


MODEL	X	Y	Z	kg
▶ G10I	423	348	340	13
▶ G20I	483	393	377	15
▶ G20D	483	393	377	16,3

RIELLO 40 GI SERIES

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.

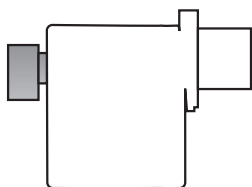
Kerosene and ULSD

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

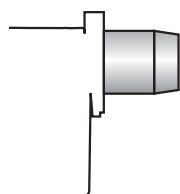
Remote control release kit for 530-531 control boxes



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

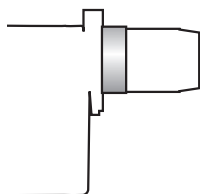


Kits of extended heads are available.

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

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