

**RBY510 RBY515 RBY520 RBY525 *cinquecento* SERIES**

**PNEUMATIC ATOMIZATION WITH ELECTRONIC OPERATION**  
 with viscosity up to 4000 cSt at 50°C (530°E at 50°C)

This particular heavy oil burners series has been developed in order to use compressed air or, alternatively, steam as a fluid to atomize the fuel with the aim to accomplish a better combustion result compared to the one gained using the traditional atomizing systems.

These burners are provided with a low pressure nozzle which allows consumption levels to be kept low and which also limits the general wear of the whole atomization system.

All burners are progressive and are completed with an electrical control cabinet and with a pump oil to be installed by the final user. Furthermore, the nozzle performs an automatic cleaning process at the end of each cycle.

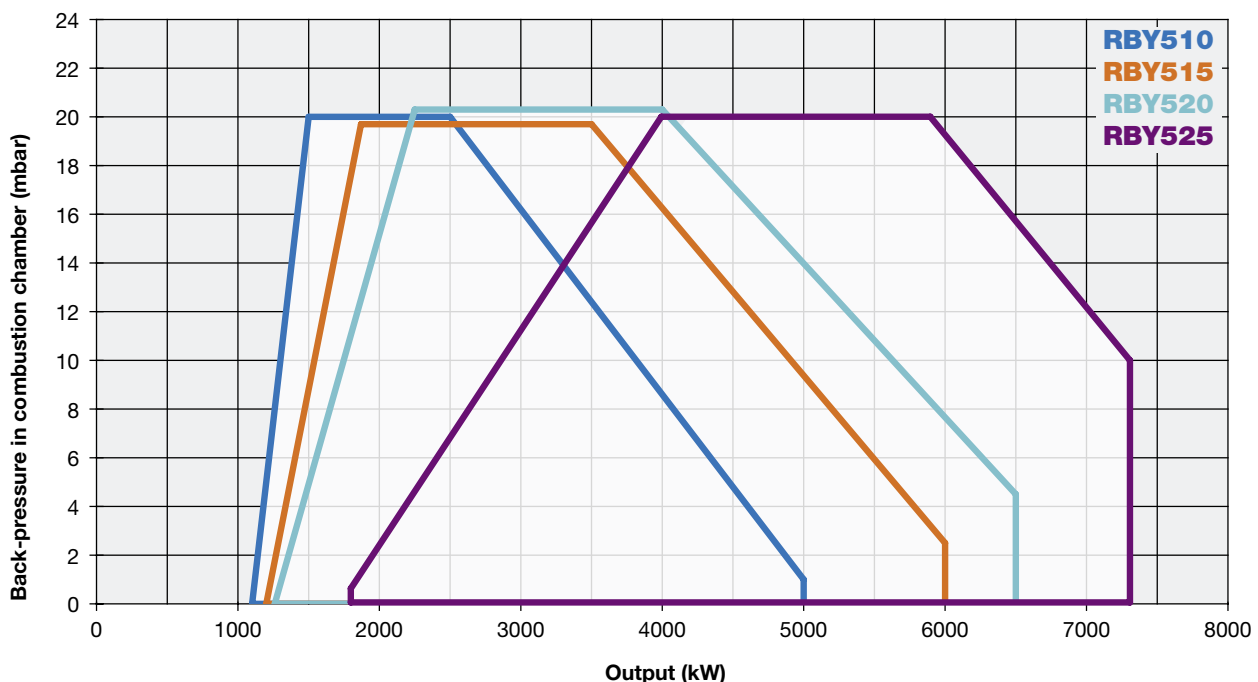
The plant must be provided with compressed air or steam at 6-10 bar.

Burners are ignited through a pilot which can work either with natural gas or LPG and are suitable to be used with fuels with a viscosity up to 4.000 cSt at 50°C (530°E at 50°).

The standard version of burners is set up to atomize only with compressed air, when steam is requested for the atomization, the burner will be modified though a specific kit.

However, compressed air must be always present at the burner in the following cases:

- cold start ups when no steam is available
- valve opening for automatic nozzle cleaning.



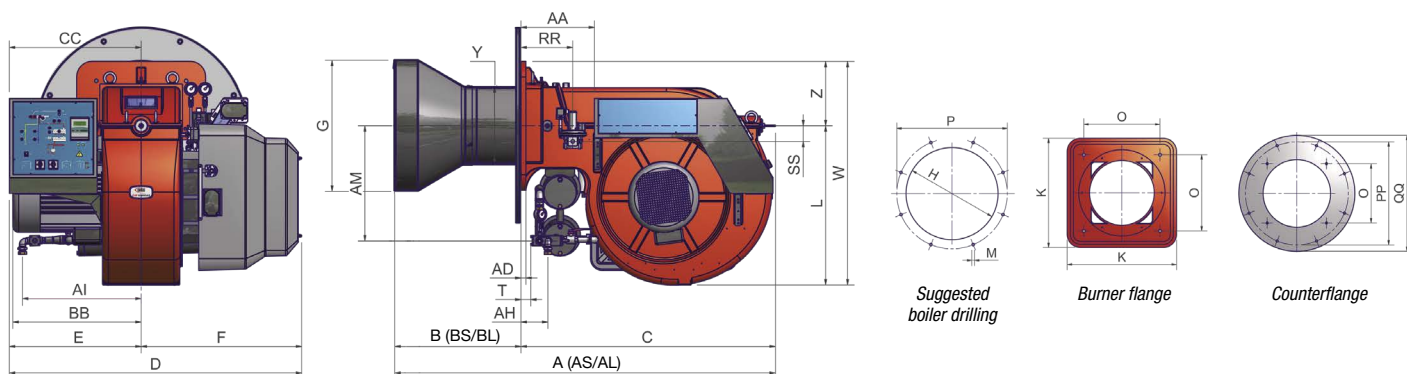
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HEAVY OIL

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## TECHNICAL DETAILS

| Type          | Model           | Output kW |       | Auxiliary electrical power supply | Motor electrical power supply | Fan motor kW | Pump motor kW | Resistor kW | Noise level dBA |
|---------------|-----------------|-----------|-------|-----------------------------------|-------------------------------|--------------|---------------|-------------|-----------------|
|               |                 | min.      | max.  |                                   |                               |              |               |             |                 |
| <b>RBY510</b> | H-.xx.S.xx.A.xx | 1.100     | 5.000 | 230 V 1N AC 50 Hz                 | 400 V 3 AC 50 Hz              | 7,5          | 0,75          | 18,0        | 81,7            |
| <b>RBY515</b> | H-.xx.S.xx.A.xx | 1.200     | 6.000 | 230 V 1N AC 50 Hz                 | 400 V 3 AC 50 Hz              | 11,0         | 0,75          | 18,0        | 82,3            |
| <b>RBY520</b> | H-.xx.S.xx.A.xx | 1.200     | 6.500 | 230 V 1N AC 50 Hz                 | 400 V 3 AC 50 Hz              | 15,0         | 0,75          | 24,0        | 83,2            |
| <b>RBY525</b> | H-.xx.S.xx.A.xx | 1.800     | 7.300 | 230 V 1N AC 50 Hz                 | 400 V 3 AC 50 Hz              | 18,5         | 0,75          | 24,0        | 84,9            |



Low pressure pump set (pump, motor and filter) is included, but supplied loose (not assembled on the burner).

| Type                  | Packaging dimensions (mm) |       |       |     |
|-----------------------|---------------------------|-------|-------|-----|
|                       | l                         | p     | h     | kg  |
| <b>RBY510/515/520</b> | 1.730                     | 1.430 | 1.130 | 410 |
| <b>RBY525</b>         | 1.730                     | 1.430 | 1.130 | 430 |

Approximate values

| Type          | Model           | Overall dimensions (mm) |    |     |     |      |      |     |     |     |     |      |     |      |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |
|---------------|-----------------|-------------------------|----|-----|-----|------|------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|
|               |                 | AA                      | AD | AH  | AI  | AL   | AS   | BS  | BL  | BB  | BB  | C    | CC  | D    | E   | F   | G   | H   | K   | L   | M   | N   | O   | P   | RR  | SS  | T  | TT  | W   | Y   | Z   | PP  | QQ  |
| <b>RBY510</b> | H-.xx.x.xx.A.xx | 219                     | 35 | 265 | 448 | -    | 1432 | 374 | -   | 468 | 468 | 1058 | 571 | 1213 | 571 | 642 | 387 | 427 | 540 | 498 | M14 | 552 | 390 | 800 | 109 | 115 | 44 | 547 | 827 | 329 | 270 | 800 | 850 |
| <b>RBY515</b> | H-.xx.x.xx.A.xx | 219                     | 35 | 265 | 448 | 1616 | 1436 | 378 | 558 | 508 | 508 | 1058 | 571 | 1213 | 571 | 642 | 474 | 524 | 540 | 498 | M14 | 552 | 390 | 800 | 109 | 115 | 44 | 547 | 827 | 329 | 270 | 800 | 850 |
| <b>RBY520</b> | H-.xx.x.xx.A.xx | 219                     | 35 | 265 | 448 | 1616 | 1436 | 378 | 558 | 508 | 508 | 1058 | 571 | 1213 | 571 | 642 | 474 | 524 | 540 | 498 | M14 | 552 | 390 | 800 | 109 | 115 | 44 | 547 | 827 | 329 | 270 | 800 | 850 |
| <b>RBY525</b> | H-.xx.x.xx.A.xx | 219                     | 35 | 265 | 448 | 1616 | 1436 | 378 | 558 | 642 | 642 | 1058 | 571 | 1284 | 642 | 642 | 474 | 524 | 540 | 498 | M14 | 552 | 390 | 800 | 109 | 115 | 44 | 547 | 827 | 329 | 270 | 800 | 850 |

Approximate values

The dimensions B are reduced by 25 mm with counterflange and gasket.

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