RS SERIES

The RS burners series covers a firing range from 44 to 2290 kW, and it has been designed for use in low or medium temperature hot water boilers, hot air or steam boilers, diathermic oil boilers. Operation is "two stage progressive"; the burners are fitted with a microprocessor-based burner safety control box which supplies indication of operation and diagnosis of fault cause. The elevated performance of the fans and combustion head, guarantee flexibility of use and excellent working at all firing rates. The exclusive design ensures reduced dimensions, simple use and maintenance. Optimisation of sound emissions is guaranteed by the special design of the air suction circuit and by incorporated sound proofing material. A wide range of accessories guarantees elevated working flexibility.

<table>
<thead>
<tr>
<th>Model</th>
<th>1st stage operation range</th>
<th>2nd stage operation range</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ</td>
<td>45/125 kW</td>
<td>390 kW</td>
</tr>
<tr>
<td>RS 44 MZ</td>
<td>80/203 kW</td>
<td>550 kW</td>
</tr>
<tr>
<td>RS 50</td>
<td>115/290 kW</td>
<td>600 kW</td>
</tr>
<tr>
<td>RS 64 MZ</td>
<td>150/400 kW</td>
<td>850 kW</td>
</tr>
<tr>
<td>RS 70</td>
<td>192/465 kW</td>
<td>874 kW</td>
</tr>
<tr>
<td>RS 100</td>
<td>232/698 kW</td>
<td>1163 kW</td>
</tr>
<tr>
<td>RS 130</td>
<td>372/930 kW</td>
<td>1512 kW</td>
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<td>RS 150</td>
<td>300/900 kW</td>
<td>1850 kW</td>
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<tr>
<td>RS 190</td>
<td>470/1279 kW</td>
<td>2290 kW</td>
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</tbody>
</table>

FIRING RATES

Useful working field for choosing the burner

1st stage operation range

Test conditions conforming to EN676
Temperature: 20°C
Pressure: 1013,5 mbar
Altitude: 0 m a.s.l.
Two Stage Progressive Gas Burners

RS SERIES

FIRING RATES

Useful working field for choosing the burner

1st stage operation range

Test conditions conforming to EN676
Temperature: 20°C
Pressure: 1013,5 mbar
Altitude: 0 m a.s.l.
## Overall dimensions (mm)

### BURNER

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>F - F(1)</th>
<th>H</th>
<th>I</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>S</th>
<th>V</th>
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<tr>
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<td>422</td>
<td>508</td>
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<td>-</td>
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<td>216 - 351</td>
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<td>352</td>
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<td>810</td>
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(1) Dimension with extended head

### RS 64 MZ

### RS 70 - 100 - 130 - 150 - 190

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<th>MODEL</th>
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<th>C</th>
<th>D</th>
<th>E</th>
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<th>H</th>
<th>I</th>
<th>L</th>
<th>M</th>
<th>N</th>
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<td>296</td>
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<td>430</td>
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<td>1296</td>
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(1) Dimension with extended head
Two Stage Progressive Gas Burners

RS SERIES

Overall dimensions (mm)

BURNER - BOILER MOUNTING FLANGE

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<th>D2</th>
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<td>M8</td>
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<td>M12</td>
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<td>275-325</td>
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<tr>
<td>RS 100</td>
<td>185</td>
<td>275-325</td>
<td>M12</td>
</tr>
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<td>RS 130</td>
<td>195</td>
<td>275-325</td>
<td>M12</td>
</tr>
<tr>
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<td>195</td>
<td>275-325</td>
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<td>RS 190</td>
<td>230</td>
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PACKAGING

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<th>MODEL</th>
<th>X (1)</th>
<th>Y</th>
<th>Z</th>
<th>kg</th>
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<td>500</td>
<td>32</td>
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<td>500</td>
<td>33</td>
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<tr>
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<td>RS 150</td>
<td>1400-1420</td>
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<td>660</td>
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<td>RS 190</td>
<td>1400-1420</td>
<td>1000</td>
<td>660</td>
<td>115</td>
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</tbody>
</table>

(1) dimension with standard and extended head
### Two Stage Progressive Gas Burners

**RS SERIES**

#### Specification

**DESIGNATION OF SERIES**

| Series: R | Fuel: | Natural Gas
|-----------|-------|
|          | SP    | LPG
| L        | Light oil
| LS       | Light oil/Methane
| N        | Heavy oil

<table>
<thead>
<tr>
<th>Size</th>
<th>Setting:</th>
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</thead>
</table>
|      |  / | Single stage
|      |  /M | Modulating

| Emission: | Class 1 EN267 – EN676
|-----------|
| MZ        | Class 2 EN267 – EN676
| BLU       | Class 3 EN267 – EN676
| MX        | Class 1 EN267
|           | Class 3 EN676

<table>
<thead>
<tr>
<th>Head length:</th>
</tr>
</thead>
</table>
| TC          | Standard head
| TL          | Extended head

<table>
<thead>
<tr>
<th>Flame control system:</th>
</tr>
</thead>
</table>
| FS1                   | Standard (1 stop every 24 h)
| FS2                   | Continuous working (1 stop every 72 h)

<table>
<thead>
<tr>
<th>Electrical supply to the system:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/230/50</td>
</tr>
<tr>
<td>1/220–230/50–60</td>
</tr>
<tr>
<td>3/230/50</td>
</tr>
<tr>
<td>3/400/50</td>
</tr>
<tr>
<td>3/230–400/50</td>
</tr>
<tr>
<td>3/220/60</td>
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<td>3/380/60</td>
</tr>
<tr>
<td>3/220–380/60</td>
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<tr>
<td>3/220–400/50</td>
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</table>

<table>
<thead>
<tr>
<th>Auxiliary voltage:</th>
</tr>
</thead>
<tbody>
<tr>
<td>230/50–60</td>
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<tr>
<td>230V/50–60Hz</td>
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<tr>
<td>220–230/50–60</td>
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<tr>
<td>220–230V/50–60Hz</td>
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<tr>
<td>110/50–60</td>
</tr>
<tr>
<td>110V/50–60Hz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ID: Differential switch</th>
</tr>
</thead>
</table>

**BASIC DESIGNATION**

| R | S  | 130 | TC | FS1 | 3/230–400/50 | 230/50–60 |

**EXTENDED DESIGNATION**

| 439 |
Two Stage Progressive Gas Burners

RS SERIES

Specification

STATE OF SUPPLY

RS 34 MZ - 44 MZ models
Monoblock forced draught gas burner with two stage operation, fully automatic, made up of:
- Air suction circuit with sound proofing material
- High performance fan with straight blades
- Air damper for air flow setting and butterfly valve for regulating fuel output on 1\textsuperscript{st} and 2\textsuperscript{nd} stage controlled by a servomotor with variable cam
- Starting motor at 2800 rpm, single-phase / 220-230V / 50-60Hz or three-phase / 380-400V / 50-60Hz
- 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
  - ionisation probe
  - gas distributor
  - flame stability disk
- Exclusive patented HCS (Housing Cooling System) with high thermal insulation and air circulation with continuous air volume refresh for an active cooling system and avoid heat transfer to the electrical component housing
- Minimum air pressure switch stops the burner in case of insufficient air quantity at the combustion head
- Microprocessor-based burner safety control box, with diagnostic functions
- Plug and socket for electrical connections accessible from the external of the cover
- Burner on/off selection switch
- 1\textsuperscript{st} – 2\textsuperscript{nd} stage manual 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
- 1 gas train flange
- 1 flange gasket
- 4 screws for fixing the flange
- 1 thermal screen
- 4 screws for fixing the burner flange to the boiler
- 3 plugs for electrical connection (RS 34 - 44 MZ single-phase)
- 4 plugs for electrical connection (RS 44 MZ three-phase)
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.
Two Stage Progressive Gas Burners

RS SERIES

Specification

STATE OF SUPPLY

RS 50 – 64 MZ – 70 – 100 – 130 – 150 – 190 models
Monoblock forced draught gas burner with two stage operation, fully automatic, made up of:
- Air suction circuit lined with sound-proofing material
- Fan with reverse curve blades (RS 50 – 70 – 100 – 130 models) or straight blades (RS 64 MZ – 150–190 models)
- Air damper for air flow setting and butterfly valve for regulating fuel output on 1st and 2nd stage controlled by a servomotor with variable cam
- Starting motor at 2800 rpm, three-phase 400V with neutral, 50Hz
- 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
  - ionisation probe
  - gas distributor
  - flame stability disk
- Minimum air pressure switch stops the burner in case of insufficient air quantity at the combustion head
- Microprocessor-based burner safety control box, with diagnostic functions
- Plug and socket for electrical connections (RS 50–64 models)
- Burner on/off selection switch
- 1st – 2nd stage manual switch
- Flame inspection window
- Slide bars for easier installation and maintenance
- Protection filter against radio interference
- IP 44 electric protection level.

Standard equipment
- 1 gas train flange
- 1 flange gasket
- 4 screws for fixing the flange
- 1 thermal screen
- 4 screws for fixing the burner flange to the boiler
- Wiring loom fittings for the electrical connection (RS 50–64)
- 2 slide bar extensions (for extended head models and RS 150–190 model)
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.
### Available models

#### Burners

<table>
<thead>
<tr>
<th>CODE</th>
<th>MODEL</th>
<th>HEAT OUTPUT</th>
<th>TOTAL ELECTRICAL POWER</th>
<th>CERTIFICATION</th>
<th>NOTE</th>
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<tbody>
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<td></td>
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<td>NATURAL GAS</td>
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<td></td>
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<td>(kW)</td>
<td>(Nm³)</td>
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<td>3785520</td>
<td>RS 130</td>
<td>FS1</td>
<td>372/930-1512</td>
<td>2,6</td>
<td>CE 0085AP0946 (1)</td>
</tr>
<tr>
<td>3785521</td>
<td>RS 130</td>
<td>FS1</td>
<td>372/930-1512</td>
<td>2,6</td>
<td>CE 0085AP0946 (1)</td>
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<tr>
<td>20046336</td>
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<td>FS1</td>
<td>300/900÷1850</td>
<td>3,5</td>
<td>in progress (2)</td>
</tr>
<tr>
<td>20046347</td>
<td>RS 150</td>
<td>FS1</td>
<td>300/900÷1850</td>
<td>3,5</td>
<td>in progress (2)</td>
</tr>
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<td>20045109</td>
<td>RS 150</td>
<td>FS1</td>
<td>300/900÷1850</td>
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<td>in progress (2)</td>
</tr>
<tr>
<td>20051314</td>
<td>RS 150</td>
<td>FS1</td>
<td>300/900÷1850</td>
<td>3,5</td>
<td>in progress (2)</td>
</tr>
<tr>
<td>3785813</td>
<td>RS 190</td>
<td>FS1</td>
<td>470/1279-2290</td>
<td>5,5</td>
<td>CE 0085AT0042 (2)</td>
</tr>
<tr>
<td>20030887</td>
<td>RS 190</td>
<td>FS1</td>
<td>470/1279-2290</td>
<td>5,5</td>
<td>CE 0085AT0042 (2)</td>
</tr>
<tr>
<td>2001698</td>
<td>RS 190</td>
<td>FS1</td>
<td>470/1279-2290</td>
<td>5,5</td>
<td>CE 0085AT0042 (2)</td>
</tr>
<tr>
<td>3785814</td>
<td>RS 190</td>
<td>FS1</td>
<td>470/1279-2290</td>
<td>5,5</td>
<td>CE 0085AT0042 (1)</td>
</tr>
<tr>
<td>20011075</td>
<td>RS 190</td>
<td>FS1</td>
<td>470/1279-2290</td>
<td>5,5</td>
<td>CE 0085AT0042 (1)</td>
</tr>
<tr>
<td>3785820</td>
<td>RS 190</td>
<td>FS1</td>
<td>470/1279-2290</td>
<td>5,5</td>
<td>- (2)</td>
</tr>
<tr>
<td>2001699</td>
<td>RS 190</td>
<td>FS1</td>
<td>470/1279-2290</td>
<td>5,5</td>
<td>- (2)</td>
</tr>
</tbody>
</table>

**NATURAL GAS**

**HEAT OUTPUT**

**TOTAL ELECTRICAL POWER**

**CERTIFICATION**

**NOTE**

- Density at 20°C: 0,71 kg/Nm³


(1) With plug and socket.
(2) With terminal board.
## Two Stage Progressive Gas Burners

### RS SERIES

### Available models

#### Gas Trains

<table>
<thead>
<tr>
<th>CODE</th>
<th>GAS TRAIN MODEL</th>
<th>Ø</th>
<th>C.T.</th>
<th>VPS CODE</th>
<th>ADAPTER CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3970500*</td>
<td>MB 405/1 - RT 20</td>
<td>¾&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970553*</td>
<td>MB 407/1 - RT 20</td>
<td>¾&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970599*</td>
<td>MB 407/1 - RT 52</td>
<td>¾&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970229*</td>
<td>MB 407/1 - RSM 20</td>
<td>¾&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970258*</td>
<td>MB 410/1 - RT 52</td>
<td>1&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970594*</td>
<td>MB 410/1 - RT 20</td>
<td>¾&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970600*</td>
<td>MB 410/1 - RT 52</td>
<td>¾&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
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<tr>
<td>3970230*</td>
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<td>-</td>
<td>3010123</td>
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<tr>
<td>3970256*</td>
<td>MB 412/1 - RT 52</td>
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<td>-</td>
<td>3010123</td>
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</tr>
<tr>
<td>3970444*</td>
<td>MB 412/1 - RT 20</td>
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<td>3010123</td>
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<tr>
<td>3970197**</td>
<td>MB 412/1 CT RT 20</td>
<td>1½&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970231*</td>
<td>MB 412/1 - RSM 20</td>
<td>1½&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970180*</td>
<td>MB 415/1 - RT 30</td>
<td>1½&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970198**</td>
<td>MB 415/1 CT RT 30</td>
<td>1½&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970250*</td>
<td>MB 415/1 - RT 52</td>
<td>1½&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970253**</td>
<td>MB 415/1 CT RT 52</td>
<td>1½&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970232*</td>
<td>MB 415/1 - RSM 30</td>
<td>1½&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970181*</td>
<td>MB 420/1 - RT 30</td>
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<td>-</td>
<td>3010123</td>
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</tr>
<tr>
<td>3970182**</td>
<td>MB 420/1 CT RT 30</td>
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<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970257*</td>
<td>MB 420/1 - RT 52</td>
<td>2&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970252**</td>
<td>MB 420/1 CT RT 52</td>
<td>2&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970233*</td>
<td>MB 420/1 - RSM 30</td>
<td>2&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970234**</td>
<td>MB 420/1 CT RSM 30</td>
<td>2&quot;</td>
<td>-</td>
<td>3010123</td>
<td></td>
</tr>
<tr>
<td>3970221*</td>
<td>MBC 1200/1 - FSM 40</td>
<td>3&quot;</td>
<td>-</td>
<td>3010367</td>
<td></td>
</tr>
<tr>
<td>3970225**</td>
<td>MBC 1200/1 CT FSM 40</td>
<td>3&quot;</td>
<td>-</td>
<td>3010367</td>
<td></td>
</tr>
<tr>
<td>3970222*</td>
<td>MBC 1900/1 - FSM 40</td>
<td>4&quot;</td>
<td>-</td>
<td>3010367</td>
<td></td>
</tr>
<tr>
<td>3970226**</td>
<td>MBC 1900/1 CT FSM 40</td>
<td>4&quot;</td>
<td>-</td>
<td>3010367</td>
<td></td>
</tr>
<tr>
<td>3970223*</td>
<td>MBC 3100/1 - FSM 40</td>
<td>4&quot;</td>
<td>-</td>
<td>3010367</td>
<td></td>
</tr>
<tr>
<td>3970227**</td>
<td>MBC 3100/1 CT FSM 40</td>
<td>4&quot;</td>
<td>-</td>
<td>3010367</td>
<td></td>
</tr>
</tbody>
</table>

** Please see designation of Gas Train Series in the page before the Catalogue index.**

* 230V/50Hz - 220V/60Hz electrical supply.
** 230V/50Hz electrical supply.

The valve seal control device is compulsory (conforming to EN 676) on gas trains to burners with a maximum output over 1200 kW. To select the gas train please refer to the technical data leaflet and/or instruction manual.

- **C.T.** Gas valve leak detection control device:
  - gas train not equipped with leak detection control device; this device can be ordered separately – see VPS column – and installed later.
  - gas train equipped with leak detection control device.
- **VPS** Valve leak detection control device. Supplied separately from the gas train (please see Gas train accessories paragraph for both 50 Hz and 60 Hz codes).
  - Not available.
Two Stage Progressive Gas Burners

RS SERIES

Available models

Gas Trains

<table>
<thead>
<tr>
<th>CODE</th>
<th>GAS TRAIN MODEL</th>
<th>Ø</th>
<th>C.T.</th>
<th>VPS CODE</th>
<th>ADAPTER CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3970145**</td>
<td>CB 512/1 - RSM 30</td>
<td>Rp 1&quot; ½</td>
<td>-</td>
<td>3010367</td>
<td>RS 34</td>
</tr>
<tr>
<td>20045589**</td>
<td>CB 512/1 CT RSM 30</td>
<td>Rp 1&quot; ½</td>
<td>◆-</td>
<td>-</td>
<td>RS 44-50</td>
</tr>
<tr>
<td>3970146*</td>
<td>CB 520/1 - RSM 30</td>
<td>Rp 2&quot;</td>
<td>-</td>
<td>3010367</td>
<td>RS 56</td>
</tr>
<tr>
<td>3970160**</td>
<td>CB 520/1 CT RSM 30</td>
<td>Rp 2&quot;</td>
<td>◆-</td>
<td>-</td>
<td>RS 70</td>
</tr>
<tr>
<td>20046659**</td>
<td>CB 525/1 - RSM 30</td>
<td>Rp 2&quot;</td>
<td>-</td>
<td>3010367</td>
<td>RS 80</td>
</tr>
<tr>
<td>20046660**</td>
<td>CB 525/1 CT RSM 30</td>
<td>Rp 2&quot;</td>
<td>◆-</td>
<td>-</td>
<td>RS 90</td>
</tr>
<tr>
<td>3970147*</td>
<td>CB 5065/1 - FSM 30</td>
<td>DN 65</td>
<td>-</td>
<td>3010367</td>
<td>RS 100</td>
</tr>
<tr>
<td>3970161**</td>
<td>CB 5065/1 CT FSM 30</td>
<td>DN 65</td>
<td>◆-</td>
<td>-</td>
<td>RS 110</td>
</tr>
<tr>
<td>3970148*</td>
<td>CB 5080/1 - FSM 30</td>
<td>DN 80</td>
<td>-</td>
<td>3010367</td>
<td>RS 120</td>
</tr>
<tr>
<td>3970162**</td>
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<td>DN 80</td>
<td>◆-</td>
<td>-</td>
<td>RS 130</td>
</tr>
<tr>
<td>3970149*</td>
<td>CB 50100/1 - FSM 30</td>
<td>DN 100</td>
<td>-</td>
<td>3010367</td>
<td>RS 140</td>
</tr>
<tr>
<td>3970163**</td>
<td>CB 50100/1 CT FSM 30</td>
<td>DN 100</td>
<td>◆-</td>
<td>-</td>
<td>RS 150</td>
</tr>
<tr>
<td>20015871*</td>
<td>CB 50125/1 - FSM 30</td>
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<td>-</td>
<td>3010367</td>
<td>RS 160</td>
</tr>
<tr>
<td>3970196**</td>
<td>CB 50125/1 CT FSM 30</td>
<td>DN 125</td>
<td>◆-</td>
<td>-</td>
<td>RS 170</td>
</tr>
</tbody>
</table>

Please see designation of Gas Train Series in the page before the Catalogue index.

* 230V/50Hz - 220V/60Hz electrical supply.
** 230V/50Hz electrical supply.
The valve seal control device is compulsory (conforming to EN 676) on gas trains to burners with a maximum output over 1200 kW.

C.T. Gas valve leak detection control device:
- gas train not equipped with leak detection control device; this device can be ordered separately - see VPS column - and installed later.
  ◆ gas train equipped with leak detection control device.
  VPS Valve leak detection control device. Supplied separately from the gas train (please see Gas train accessories paragraph for both 50 Hz and 60 Hz codes).
  ● Not available.
Burner accessories

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.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>‘STANDARD HEAD’ LENGTH (mm)</th>
<th>‘EXTENDED HEAD’ LENGTH (mm)</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ</td>
<td>216</td>
<td>351</td>
<td>3010428</td>
</tr>
<tr>
<td>RS 44 MZ</td>
<td>216</td>
<td>351</td>
<td>3010429</td>
</tr>
<tr>
<td>RS 50</td>
<td>216</td>
<td>351</td>
<td>3010078</td>
</tr>
<tr>
<td>RS 64 MZ</td>
<td>250</td>
<td>385</td>
<td>3010427</td>
</tr>
<tr>
<td>RS 70</td>
<td>250</td>
<td>385</td>
<td>3010117</td>
</tr>
<tr>
<td>RS 100</td>
<td>250</td>
<td>385</td>
<td>3010118</td>
</tr>
<tr>
<td>RS 130</td>
<td>280</td>
<td>415</td>
<td>3010119</td>
</tr>
<tr>
<td>RS 150</td>
<td>280</td>
<td>415</td>
<td>20052186</td>
</tr>
<tr>
<td>RS 190</td>
<td>370</td>
<td>520</td>
<td>3010443</td>
</tr>
</tbody>
</table>

* Kit to be used on burners recognizable by a serial number that is over or equal to 02426XXXXXX, for burners with a serial number that is under or equal to 02416XXXXXX please use the Kit coded 3010196

Spacer kit

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

<table>
<thead>
<tr>
<th>BURNER</th>
<th>SPACER THICKNESS S (mm)</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ - 44 MZ - 50</td>
<td>110</td>
<td>3010095</td>
</tr>
<tr>
<td>RS 64 MZ - 70 - 100 - 130 - 150</td>
<td>135</td>
<td>3010129</td>
</tr>
<tr>
<td>RS 190</td>
<td>102</td>
<td>3010722</td>
</tr>
</tbody>
</table>

Continuous ventilation kit

If the burner requires continuous ventilation in the stages without flame, a special kit is available as given in the following table:

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ - 44 MZ</td>
<td>3010449</td>
</tr>
<tr>
<td>RS 50 - 64 - 70 - 100 - 130 - 150 - 190</td>
<td>3010094</td>
</tr>
</tbody>
</table>

Post-ventilation kit

To prolong ventilation after opening of thermostats chain, a special kit is available.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>POST-VENTILATION TIME (s)</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>5</td>
<td>3010004</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>3010452</td>
</tr>
</tbody>
</table>
Two Stage Progressive Gas Burners

RS SERIES

Burner accessories

Connection flange kit

A kit is available for use where the burner opening on the boiler is of excessive diameter.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ - 44 MZ</td>
<td>3010138</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>BOX TYPE (mm)</th>
<th>A (mm)</th>
<th>B (mm) min-max</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>dB(A) (*)</th>
<th>BOX CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ - 44 MZ</td>
<td>C1/3</td>
<td>650</td>
<td>372 - 980</td>
<td>110</td>
<td>690</td>
<td>770</td>
<td>10</td>
<td>3010403</td>
</tr>
<tr>
<td>RS 50 - RS 64 MZ</td>
<td>C4/5</td>
<td>850</td>
<td>160 - 980</td>
<td>110</td>
<td>980</td>
<td>930</td>
<td>10</td>
<td>3010404</td>
</tr>
</tbody>
</table>

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

LPG kit

For burning LPG gas, a special kit is available to be fitted to the combustion head on the burner, as given in the following table:

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE FOR &quot;STANDARD HEAD&quot;</th>
<th>KIT CODE FOR &quot;EXTENDED HEAD&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ</td>
<td>3010423</td>
<td>3010423</td>
</tr>
<tr>
<td>RS 44 MZ</td>
<td>3010424</td>
<td>3010424</td>
</tr>
<tr>
<td>RS 50</td>
<td>20008173</td>
<td>20008173</td>
</tr>
<tr>
<td>RS 64 MZ</td>
<td>3010434</td>
<td>3010435</td>
</tr>
<tr>
<td>RS 70</td>
<td>20008175</td>
<td>20008176</td>
</tr>
<tr>
<td>RS 100</td>
<td>20008177</td>
<td>20008178</td>
</tr>
<tr>
<td>RS 130</td>
<td>20008179</td>
<td>20008180</td>
</tr>
<tr>
<td>RS 150</td>
<td>20050064</td>
<td>20050065</td>
</tr>
<tr>
<td>RS 190</td>
<td>3010166</td>
<td>3010166</td>
</tr>
</tbody>
</table>
Burner accessories

Town gas kit

For burning Town gas, a special kit is available:

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE FOR 'STANDARD HEAD' (*)</th>
<th>KIT CODE FOR 'EXTENDED HEAD' (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ</td>
<td>3010502</td>
<td>3010502</td>
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<tr>
<td>RS 44 MZ</td>
<td>3010503</td>
<td>3010503</td>
</tr>
<tr>
<td>RS 50</td>
<td>3010285</td>
<td>3010285</td>
</tr>
<tr>
<td>RS 70</td>
<td>3010286</td>
<td>3010286</td>
</tr>
<tr>
<td>RS 100</td>
<td>3010287</td>
<td>3010287</td>
</tr>
<tr>
<td>RS 130</td>
<td>3010288</td>
<td>3010288</td>
</tr>
<tr>
<td>RS 190</td>
<td>3010297</td>
<td>3010297</td>
</tr>
</tbody>
</table>

(*) Without CE certification

Vibration reduction kit

The kit allow you to improve flame stability in some applications, where the boiler/flue assembly is liable to resonate.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 50 TC - RS 50 TL</td>
<td>3010200</td>
</tr>
<tr>
<td>RS 70 TC - RS 70 TL</td>
<td>3010201</td>
</tr>
<tr>
<td>RS 100 TC - RS 100 TL</td>
<td>3010202</td>
</tr>
<tr>
<td>RS 130 TC</td>
<td>3010373</td>
</tr>
<tr>
<td>RS 130 TL</td>
<td>3010374</td>
</tr>
<tr>
<td>RS 190 TC</td>
<td>3010375</td>
</tr>
</tbody>
</table>

Ground fault interrupter kit

A “Ground fault interrupter kit” is available as a safety device for electrical system fault.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ - 44 MZ</td>
<td>3010448</td>
</tr>
<tr>
<td>RS 50 - RS 64 MZ</td>
<td>3010321</td>
</tr>
<tr>
<td>RS 70 - 100 - 130 - 150 - 190</td>
<td>3010329</td>
</tr>
</tbody>
</table>

Gas max pressure switch kit

If necessary a Gas max pressure Switch kit is available.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ - 44 MZ*</td>
<td>3010418</td>
</tr>
<tr>
<td>RS 50 - 64 MZ - 70 - 100 - 130 - 150 - 190</td>
<td>3010493</td>
</tr>
</tbody>
</table>

* Connectable to the burner electrical wiring through Plugs & Sockets system
Burner accessories

Volt free contact kit

A volt free contact kit is available for installation onto the burner. It can be used for a remote interface between burner operating signals. Every burner can be equipped with a single kit for a remote check of the flame presence signal and the burner lockout indication.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ - 44 MZ - 64 MZ</td>
<td>3010419</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ - 44 MZ - 50 - 64 MZ - 70 - 100 - 130 - 150 - 190</td>
<td>3002719</td>
</tr>
</tbody>
</table>

Hours counter kit

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

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 34 MZ - 44 MZ</td>
<td>3010450</td>
</tr>
</tbody>
</table>

DN80 gas flange kit

To modify the standard 2” burner gas input connection in to DN80 connection, a specific gas flange is available.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 64 MZ - 70 - 100 - 130 - 150 - 190</td>
<td>3010439</td>
</tr>
</tbody>
</table>
Burner accessories

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.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>3010386</td>
</tr>
</tbody>
</table>

Head kit for “reverse flame chamber”

In certain cases, the use of the burner on reverse flame boilers can be improved by using an additional cylinder.

<table>
<thead>
<tr>
<th>BURNER</th>
<th>STANDARD HEAD LENGTH WITH CYLINDER (mm)</th>
<th>EXTENDED HEAD LENGTH WITH CYLINDER (mm)</th>
<th>KIT CODE (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 190</td>
<td>493</td>
<td>~</td>
<td>3010241</td>
</tr>
</tbody>
</table>

(*) EC certification in progress

Gas train accessories

Adapters

In certain cases, an adapter must be fitted between the gas train and the burner, when the diameter of the gas train is different from the set diameter of the burner. Below are given the available adapters; please see on the Gas Train list the correct adapter codes to select.

<table>
<thead>
<tr>
<th>ADAPTER</th>
<th>LENGTH mm</th>
<th>ADAPTER CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” 1/2</td>
<td>70</td>
<td>3000822</td>
</tr>
<tr>
<td>3/4”</td>
<td>31</td>
<td>3000824</td>
</tr>
<tr>
<td>DN 65</td>
<td>300</td>
<td>3000825</td>
</tr>
<tr>
<td>DN 80</td>
<td>300</td>
<td>3000826</td>
</tr>
<tr>
<td>1” 1/2</td>
<td>35</td>
<td>3000843</td>
</tr>
<tr>
<td>1” 1/4</td>
<td>35</td>
<td>3010124</td>
</tr>
<tr>
<td>1” 1/8</td>
<td>35</td>
<td>3010126</td>
</tr>
</tbody>
</table>
Gas train accessories

Stabiliser spring

Accessory springs are available to vary the pressure range of the gas train stabilisers. The following table shows these accessories with their application range. Please refer to the technical manual for the correct choice of spring.

<table>
<thead>
<tr>
<th>GAS TRAIN</th>
<th>SPRING COLOUR</th>
<th>SPRING PRESSURE RANGE mbar</th>
<th>SPRING CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBC 1900/1 - 3100/1 MBC 5000/1</td>
<td>White</td>
<td>4 - 20</td>
<td>3010381</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>20 - 40</td>
<td>3010382</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>40 - 80</td>
<td>3010383</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>80 - 150</td>
<td>3010384</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>25 - 55</td>
<td>3010131</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>60 - 110</td>
<td>3010157</td>
</tr>
<tr>
<td></td>
<td>Pink</td>
<td>90 - 150</td>
<td>3090486</td>
</tr>
<tr>
<td>CB 520/1 - 525/1</td>
<td>Red</td>
<td>25 - 55</td>
<td>3010132</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>60 - 110</td>
<td>3010158</td>
</tr>
<tr>
<td></td>
<td>Pink</td>
<td>100 - 150</td>
<td>3090487</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>25 - 55</td>
<td>3010133</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>60 - 110</td>
<td>3010135</td>
</tr>
<tr>
<td></td>
<td>Pink</td>
<td>100 - 150</td>
<td>3090456</td>
</tr>
<tr>
<td></td>
<td>Grey</td>
<td>140 - 200</td>
<td>3090992</td>
</tr>
</tbody>
</table>

Seal control kit

To test the valve seals on the gas train, a special “seal control kit” is available. The valve seal control device is compulsory (EN 676) on gas trains to burners with a maximum output over 1200 kW. The seal control is type VPS 504.

<table>
<thead>
<tr>
<th>GAS TRAIN</th>
<th>KIT CODE for 50 Hz operation</th>
<th>KIT CODE for 60 Hz operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB/1 type</td>
<td>3010123</td>
<td>20050030</td>
</tr>
<tr>
<td>MBC/1 type</td>
<td>3010367</td>
<td>20029057</td>
</tr>
<tr>
<td>CB/1 type</td>
<td>3010367</td>
<td>20029057</td>
</tr>
</tbody>
</table>