

RS 300÷1200/M BLU SERIES

The RS 300-400-500-650-800-1000-1200/M BLU burners are characterised by a monoblock structure which means that all necessary components are combined in a single unit, making installation easier and faster.

The burners cover a firing range from 1350 to 11100 kW, and they have been designed for use in hot water boilers or industrial steam generators.

Operation can be "two stage progressive" or alternatively "modulating" with the installation of a PID logic regulator or by external 4-20 mA/0-10 V signal.

The mechanical cam device of regulation allows to catch up a high modulation ratio on all firing rates range. The burners can, therefore, supply with precision the demanded power, guaranteeing a high efficiency system level and the stability setting, obtaining fuel consumption and operating costs reduction.

The combustion head, engineered with advanced simulation devices, guarantees reduced polluting emissions ($NO_x < 80 \text{ mg/kWh}$).

FS1 and FS2 versions are available for intermittent and continuous operation applications.

An exclusive design, guarantees low sound emissions, low electrical consumption, easy use and maintenance.

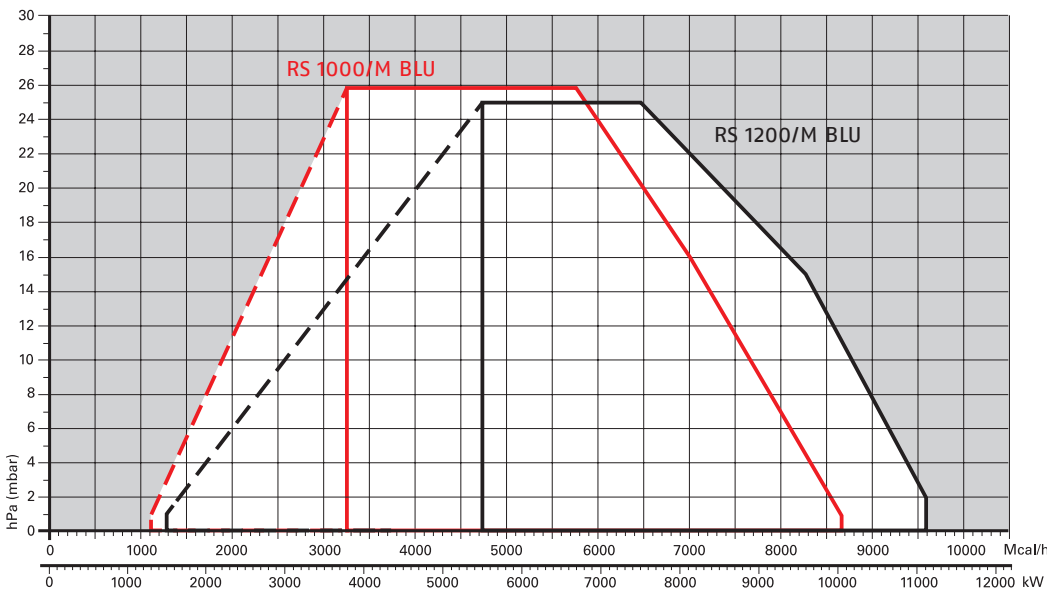
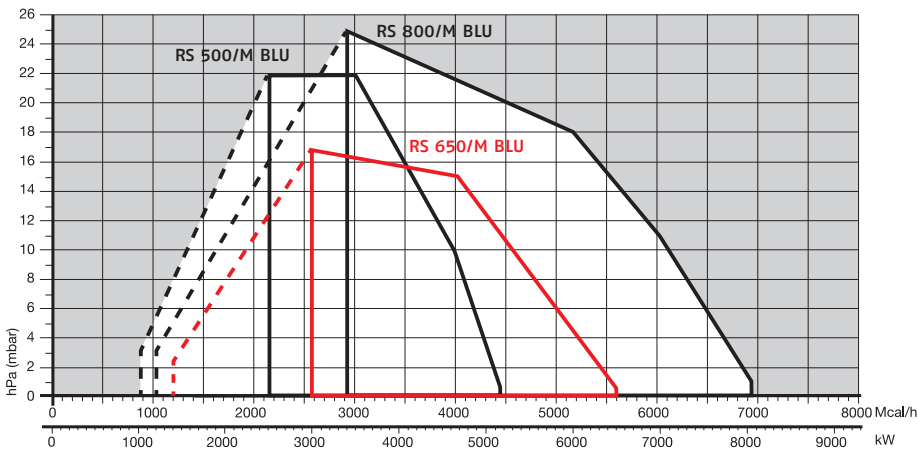
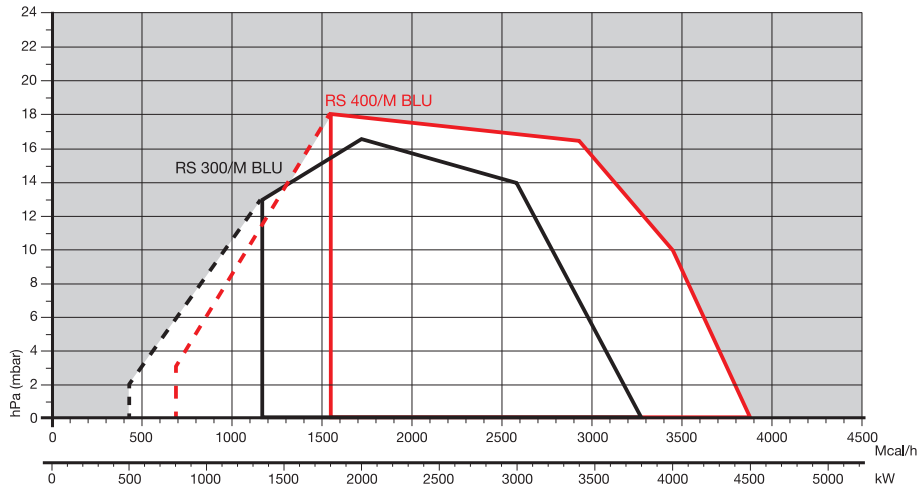


| | |
|---------------|----------------------|
| RS 300/M BLU | 500/1350 ÷ 3800 kW |
| RS 400/M BLU | 950/1830 ÷ 4590 kW |
| RS 500/M BLU | 1000/2500 ÷ 5170 kW |
| RS 650/M BLU | 1410/3000 ÷ 6500 kW |
| RS 800/M BLU | 1200/3500 ÷ 8100 kW |
| RS 1000/M BLU | 1100/4000 ÷ 10100 kW |
| RS 1200/M BLU | 1500/5500 ÷ 11100 kW |

Low NOx Modulating Gas Burners

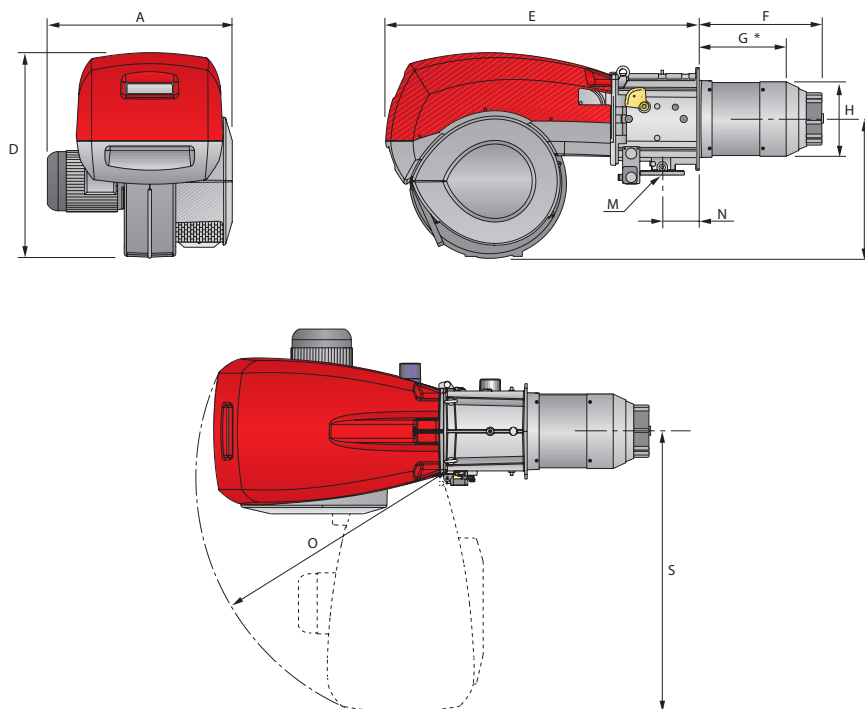
RS 300÷1200/M BLU SERIES

FIRING RATES



Overall dimensions (mm)

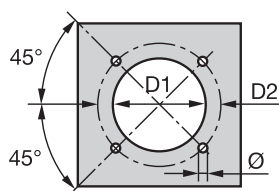
BURNER



| MODEL | A | D | E | F | G* | H | I | M | N | O | S |
|----------------|-----|-----|------|-----|-----|-----|-----|---------|-----|------|------|
| ▶ RS 300/M BLU | 720 | 867 | 1325 | 521 | 373 | 313 | 588 | DN65 | 164 | 1055 | 1175 |
| ▶ RS 400/M BLU | 775 | 867 | 1325 | 521 | 373 | 313 | 588 | DN65 | 164 | 1055 | 1175 |
| ▶ RS 500/M BLU | 775 | 867 | 1325 | 521 | 357 | 370 | 588 | DN65 | 164 | 1055 | 1175 |
| ▶ RS 650/M BLU | 800 | 950 | 1325 | 549 | 397 | 363 | 588 | DN65/80 | 175 | 1055 | 1175 |
| ▶ RS 800/M BLU | 940 | 867 | 1325 | 582 | 418 | 363 | 588 | DN65/80 | 164 | 1055 | 1175 |

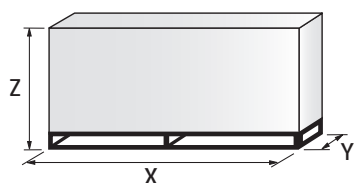
* Maximum depth of the boiler door including the depth of the burner flange insulating gasket.

BURNER - BOILER MOUNTING FLANGE



| MODEL | D1 | D2 | Ø |
|----------------|-----|-----|-----|
| ▶ RS 300/M BLU | 350 | 452 | M18 |
| ▶ RS 400/M BLU | 350 | 452 | M18 |
| ▶ RS 500/M BLU | 390 | 452 | M18 |
| ▶ RS 650/M BLU | 400 | 495 | M18 |
| ▶ RS 800/M BLU | 400 | 495 | M18 |

PACKAGING



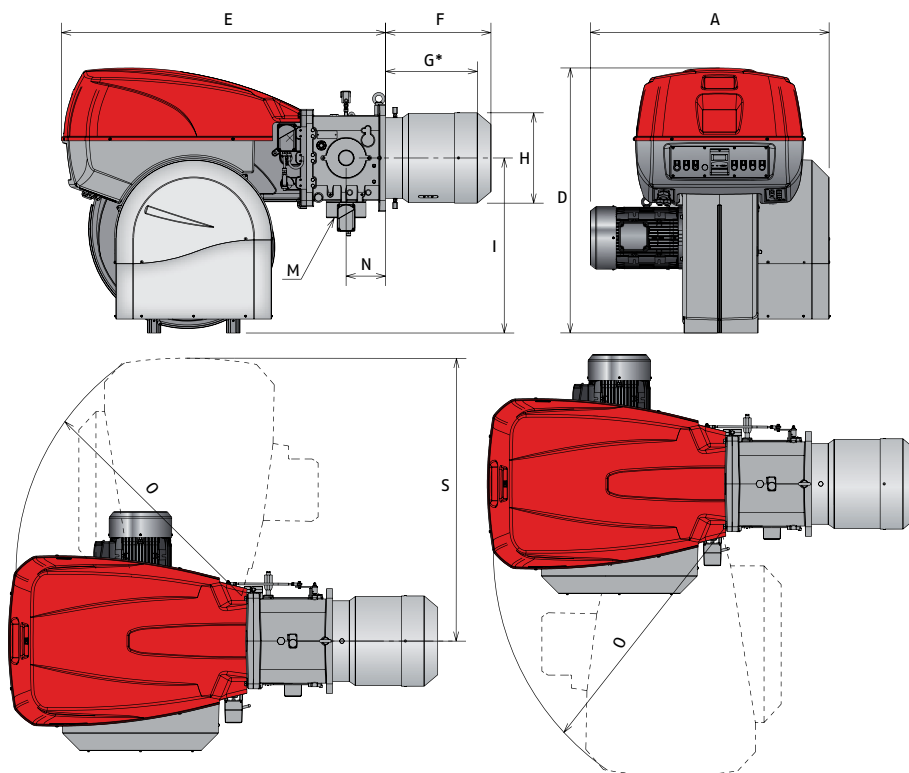
| MODEL | X | Y | Z | kg |
|----------------|------|------|------|-----|
| ▶ RS 300/M BLU | 1960 | 945 | 1100 | 225 |
| ▶ RS 400/M BLU | 1960 | 945 | 1100 | 236 |
| ▶ RS 500/M BLU | 1960 | 945 | 1100 | 250 |
| ▶ RS 650/M BLU | 2040 | 1180 | 1125 | 300 |
| ▶ RS 800/M BLU | 2040 | 1180 | 1125 | 300 |

Low NOx Modulating Gas Burners

RS 300-1200/M BLU SERIES

Overall dimensions (mm)

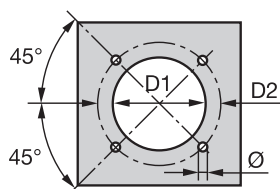
BURNER



| MODEL | A | D | E | F | G* | H | I | M | N | O | S |
|-----------------|------|------|------|-----|-----|-----|-----|------|-----|------|------|
| ▶ RS 1000/M BLU | 1206 | 1338 | 1637 | 669 | 485 | 413 | 885 | DN80 | 200 | 1350 | 1493 |
| ▶ RS 1200/M BLU | 1250 | 1338 | 1637 | 670 | 485 | 456 | 885 | DN80 | 200 | 1350 | 1493 |

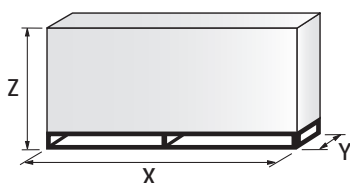
* Maximum depth of the boiler door including the depth of the burner flange insulating gasket.

BURNER - BOILER MOUNTING FLANGE



| MODEL | D1 | D2 | Ø |
|-----------------|-----|-----|-----|
| ▶ RS 1000/M BLU | 460 | 608 | M20 |
| ▶ RS 1200/M BLU | 500 | 608 | M20 |

PACKAGING



| MODEL | X | Y | Z | kg |
|-----------------|------|------|------|-----|
| ▶ RS 1000/M BLU | 2400 | 1400 | 1595 | 500 |
| ▶ RS 1200/M BLU | 2400 | 1400 | 1595 | 550 |

Specification

DESIGNATION OF SERIES

| | | | | | | | | | |
|---|---|-----|----|-----|----|-----|--------------|-----------|--|
| Series: R | | | | | | | | | |
| Fuel: S Natural Gas | | | | | | | | | |
| L Light oil | | | | | | | | | |
| LS Light oil/Natural Gas | | | | | | | | | |
| N Heavy oil | | | | | | | | | |
| Size | | | | | | | | | |
| Setting : /1 Single stage | | | | | | | | | |
| /B Two stage | | | | | | | | | |
| /M Modulating - Mechanical cam | | | | | | | | | |
| /P Proportioning air/gas valve | | | | | | | | | |
| /E Electronic cam | | | | | | | | | |
| /EV Electronic cam predisposed for variable speed (with inverter) | | | | | | | | | |
| Emission : ... Class 1 EN267 - EN676 | | | | | | | | | |
| MZ Class 2 EN267 - EN676 | | | | | | | | | |
| BLU Class 3 EN267 - EN676 | | | | | | | | | |
| MX Class 2 EN267 | | | | | | | | | |
| Class 3 EN676 | | | | | | | | | |
| Head length: TC standard head | | | | | | | | | |
| TL extended head | | | | | | | | | |
| Flame control system: FS1 Standard (1 stop every 24 h) | | | | | | | | | |
| FS2 Continuous working (1 stop every 72 h) | | | | | | | | | |
| Electrical supply to the system: | | | | | | | | | |
| 1/230/50 1/230V/50Hz | | | | | | | | | |
| 3/230/50 3/230V/50Hz | | | | | | | | | |
| 3/400/50 3N/400V/50Hz | | | | | | | | | |
| 3/230-400/50 3/230V/50Hz - 3N/400V/50Hz | | | | | | | | | |
| 3/220/60 3/220V/60Hz | | | | | | | | | |
| 3/380/60 3N/380V/60Hz | | | | | | | | | |
| 3/220-380/60 3/220/60Hz - 3N/380V/60Hz | | | | | | | | | |
| Auxiliary voltage: 230/50-60 230V/50-60Hz | | | | | | | | | |
| 110/50-60 110V/50-60Hz | | | | | | | | | |
| R | S | 500 | /M | BLU | TC | FS1 | 3/230-400/50 | 230/50-60 | |
| BASIC DESIGNATION | | | | | | | | | |
| EXTENDED DESIGNATION | | | | | | | | | |

Low NOx Modulating Gas Burners

RS 300÷1200/M BLU SERIES

Specification

STATE OF SUPPLY

Monoblock forced draught gas burner with modulating operation, fully automatic, made up of:

- High performance fan with low sound emissions, reverse curve blades for RS 300-400-1000-1200/M BLU, forward curve blades for RS 500-650-800/M BLU
- Air suction circuit lined with sound-proofing material
- Air damper for air setting controlled by a high precision servomotor
- Air pressure switch
- Fan starting motor at 2900 rpm, three-phase 230/400 - 400/690 V with neutral, 50 Hz
- Low emission 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; or UV sensor (RS 1000-1200) for flame detection
 - flame stability disk
- Maximum gas pressure switch, with pressure test point, for halting the burner in the case of over pressure on the fuel supply line
- Burner safety control box for controlling the system safety (RMG/M for FS1 intermittent operation - LFL for FS1 intermittent operation for RS 1000-1200 model - LGK16 for FS2 continuous operation)
- UV photocell or ionisation probe for flame detection
- Star/delta starter for the fan motor (burners with motor electrical power $\geq 7,5$ kW)
- Main electrical supply terminal board
- Burner on/off switch
- Auxiliary voltage led signal
- Manual or automatic output increase/decrease switch
- Burner working led signal
- Contacts motor and thermal relay with release button
- Motor internal thermal protection
- Motor failure led signal
- Burner failure led signal and lighted release button
- Led signal for correct rotation direction of fan motor
- Emergency button
- Coded connection plugs-sockets
- Burner opening hinge
- Lifting rings
- IP 54 electric protection level

Standard equipment:

- 1 flange gasket
- 8 screws for fixing the flange
- 1 thermal screen
- 4 screws for fixing the burner flange to the boiler
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

RS 300÷1200/M BLU SERIES

Available models

Burners

| CODE | MODEL | | | | | HEAT OUTPUT | | TOTAL ELECTRICAL POWER (kW) | CERTIFICATION | NOTE |
|----------|---------------|----|-----|--------------|-----------|-----------------|----------------------|-----------------------------|---------------|---------|
| | | | | | | NATURAL GAS | | | | |
| | | | | | | (kW) | (Nm ³ /h) | | | |
| 3899410 | RS 300/M BLU | TC | FS1 | 3/230-400/50 | 230/50-60 | 500/1350-3800 | 50/135-380 | 5 | CE 0085BR0480 | (1) |
| 20008428 | RS 300/M BLU | TC | FS1 | 3/220-380/60 | 220/50-60 | 500/1350-3800 | 50/135-380 | 5 | - | (1) |
| 3899510 | RS 400/M BLU | TC | FS1 | 3/400/50 | 230/50-60 | 950/1830-4590 | 95/183-459 | 8,8 | CE 0085BR0481 | (1) |
| 20008404 | RS 400/M BLU | TC | FS1 | 3/380/60 | 220/50-60 | 950/1830-4590 | 95/183-459 | 8,8 | - | (1) |
| 3899110 | RS 500/M BLU | TC | FS1 | 3/400/50 | 230/50-60 | 1000/2500-5170 | 100/250-517 | 10,6 | CE 0085B00341 | (1) |
| 3899115 | RS 500/M BLU | TC | FS2 | 3/400/50 | 230/50-60 | 1000/2500-5170 | 100/250-517 | 10,6 | CE 0085B00341 | (1) |
| 20006131 | RS 500/M BLU | TC | FS1 | 3/380/60 | 220/50-60 | 1000/2500-5170 | 100/250-517 | 10,6 | - | (1) |
| 20040330 | RS 650/M BLU | TC | FS1 | 3/400/50 | 230/50-60 | 1410/3000-6500 | 143/300-655 | 20,5 | CE 0085BT0337 | (1) |
| 3911010 | RS 800/M BLU | TC | FS1 | 3/400/50 | 230/50-60 | 1200/3500-8100 | 120/350-810 | 24 | CE 0085BT0337 | (1) |
| 3911050 | RS 800/M BLU | TC | FS2 | 3/400/50 | 230/50-60 | 1200/3500-8100 | 120/350-810 | 24 | CE 0085BT0337 | (1) |
| 20008894 | RS 800/M BLU | TC | FS1 | 3/380/60 | 220/50-60 | 1200/3500-8100 | 120/350-810 | 26 | - | (1) |
| 20051940 | RS 1000/M BLU | TC | FS1 | 3/400/50 | 230/50-60 | 1100/4000-10100 | 130/380-940 | 24 | CE-0085CN0119 | (1) (2) |
| 20072966 | RS 1000/M BLU | TC | FS1 | 3/400/50 | 230/50-60 | 1100/4000-10100 | 130/380-940 | 24 | CE-0085CN0119 | (1) (3) |
| 20051941 | RS 1200/M BLU | TC | FS1 | 3/400/50 | 230/50-60 | 1500/5500-11100 | 150/550-1150 | 27,2 | CE-0085CN0120 | (1) (2) |
| 20072965 | RS 1200/M BLU | TC | FS1 | 3/400/50 | 230/50-60 | 1500/5500-11100 | 150/550-1150 | 27,2 | CE-0085CN0120 | (1) (3) |

Natural gas, net calorific value: 10 kWh/Nm³ - Density: 0,71 kg/Nm³

(1) according to 2009/142 EC - 2004/108 - 2006/95 EC - 2006/42 EC Directives

(2) UV photocell

(3) ionization probe

Low NOx Modulating Gas Burners

RS 300÷1200/M BLU SERIES

Available models

Gas Trains

| Code | Gas train | | | VPS Code | Adapter Code | | |
|------------|----------------------|-----------|------|----------|---|--------|--------|
| | Model | Ø | C.T. | | RS 300 | RS 400 | RS 500 |
| 3970180* | MB 415/1 - RT 30 | Rp 1" 1/2 | - | 3010123 | 20064220 + 20064169 / (20068062) ¹ | ● | ● |
| 3970198** | MB 415/1 CT RT 30 | Rp 1" 1/2 | ◆ | - | | ● | ● |
| 3970250* | MB 415/1 - RT 52 | Rp 1" 1/2 | - | 3010123 | | ● | ● |
| 3970253** | MB 415/1 CT RT 52 | Rp 1" 1/2 | ◆ | - | | ● | ● |
| 3970232* | MB 415/1 - RSM 30 | Rp 1" 1/2 | - | 3010123 | | ● | ● |
| 3970181* | MB 420/1 - RT 30 | Rp 2" | - | 3010123 | 20042324 + 20064169 / (20068062) ¹ | ● | ● |
| 3970182** | MB 420/1 CT RT 30 | Rp 2" | ◆ | - | | ● | ● |
| 3970257* | MB 420/1 - RT 52 | Rp 2" | - | 3010123 | | ● | ● |
| 3970252** | MB 420/1 CT RT 52 | Rp 2" | ◆ | - | | ● | ● |
| 3970233* | MB 420/1 - RSM 30 | Rp 2" | - | 3010123 | | ● | ● |
| 3970234** | MB 420/1 CT RSM 30 | Rp 2" | ◆ | - | ● | ● | |
| 3970221* | MBC 1200/1 - RSM 60 | Rp 2" | - | 3010367 | 20042324 + 20064169 / (20068062) ¹ | | |
| 3970225** | MBC 1200/1 CT RSM 60 | Rp 2" | ◆ | - | | | |
| 3970222* | MBC 1900/1 - FSM 40 | DN 65 | - | 3010367 | 20059330 / (20065924 + 20059330) ¹ / (3010221 + 20059331) ² | | |
| 3970226** | MBC 1900/1 CT FSM 40 | DN 65 | ◆ | - | | | |
| 3970223* | MBC 3100/1 - FSM 40 | DN 80 | - | 3010367 | 20059331 / (20065937 + 20059331) ¹ / (3010222 + 20059331) ² | | |
| 3970227** | MBC 3100/1 CT FSM 40 | DN 80 | ◆ | - | | | |
| 3970224* | MBC 5000/1 - FSM 80 | DN 100 | - | 3010367 | 20059332 / (20065960 + 20059332) ¹ / (3010223 + 20059331) ² | | |
| 3970228** | MBC 5000/1 CT FSM 80 | DN 100 | ◆ | - | | | |
| 3970145* | CB 512/1 - RSM 30 | Rp 1" 1/2 | - | 3010367 | 20064220 + 20064169 / (20068062) ¹ | ● | ● |
| 20045589** | CB 512/1 CT RSM 30 | Rp 1" 1/2 | ◆ | - | | ● | ● |
| 3970146* | CB 520/1 - RSM 30 | Rp 2" | - | 3010367 | 20042324 + 20064169 / (20068062) ¹ | | |
| 3970160** | CB 520/1 CT RSM 30 | Rp 2" | ◆ | - | | | |
| 20044659* | CB 525/1 - RSM 30 | Rp 2" | - | 3010367 | 20042324 + 20064169 / (20068062) ¹ | | |
| 20044660** | CB 525/1 CT RSM 30 | Rp 2" | ◆ | - | | | |
| 3970147* | CB 5065/1 - FSM 30 | DN 65 | - | 3010367 | 20059330 / (20065924 + 20059330) ¹ / (3010221 + 20059331) ² | | |
| 3970161** | CB 5065/1 CT FSM 30 | DN 65 | ◆ | - | | | |
| 3970148* | CB 5080/1 - FSM 30 | DN 80 | - | 3010367 | 20059331 / (20065937 + 20059331) ¹ / (3010222 + 20059331) ² | | |
| 3970162** | CB 5080/1 CT FSM 30 | DN 80 | ◆ | - | | | |
| 3970149* | CB 50100/1 - FSM 30 | DN 100 | - | 3010367 | 20059332 / (20065960 + 20059332) ¹ / (3010223 + 20059331) ² | | |
| 3970163** | CB 50100/1 CT FSM 30 | DN 100 | ◆ | - | | | |
| 20015871* | CB 50125/1 - FSM 30 | DN 125 | - | 3010367 | 20059333 / (20065968 + 20059333) ¹ / (3010224 + 20059331) ² | | |
| 3970196** | CB 50125/1 CT FSM 30 | DN 125 | ◆ | - | | | |

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.

1) To be used with gas train and burner opening on the left (fan motor side).

2) To be used with /M (mechanical cam) burners, gas train on the left (fan motor side) and burner opening on the right.

RS 300÷1200/M BLU SERIES

Available models

Gas Trains

| Code | Gas train | | | VPS Code | Adapter Code | | | |
|------------|----------------------|--------|------|----------|---|--------|---|---------|
| | Model | ∅ | C.T. | | RS 650 | RS 800 | RS 1000 | RS 1200 |
| 3970221* | MBC 1200/1 – RSM 60 | Rp 2" | - | 3010367 | 20042324 + 20064169 / (20068062) ¹ | | 20066253 / (20068058) ¹ | |
| 3970225** | MBC 1200/1 CT RSM 60 | Rp 2" | ◆ | - | | | | |
| 3970222* | MBC 1900/1 – FSM 40 | DN 65 | - | 3010367 | 20059330 / (20065924 + 20059330) ¹ / (3010221 + 20059331) ² | | 20066263 / (20065924 + 20066263) ¹ | |
| 3970226** | MBC 1900/1 CT FSM 40 | DN 65 | ◆ | - | | | | |
| 3970223* | MBC 3100/1 – FSM 40 | DN 80 | - | 3010367 | 20059331 / (20065937 + 20059331) ¹ / (3010222 + 20059331) ² | | 20066268 / (20065937 + 20066268) ¹ | |
| 3970227** | MBC 3100/1 CT FSM 40 | DN 80 | ◆ | - | | | | |
| 3970224* | MBC 5000/1 – FSM 80 | DN 100 | - | 3010367 | 20059332 / (20065960 + 20059332) ¹ / (3010223 + 20059331) ² | | 20066278 / (20065960 + 20066278) ¹ | |
| 3970228** | MBC 5000/1 CT FSM 80 | DN 100 | ◆ | - | | | | |
| 20044659* | CB 525/1 – RSM 30 | Rp 2" | - | 3010367 | 20042324 + 20064169 / (20068062) ¹ | ● | 20066263 / (20065924 + 20066263) ¹ | ● |
| 20044660** | CB 525/1 CT RSM 30 | Rp 2" | ◆ | - | | ● | | ● |
| 3970147* | CB 5065/1 – FSM 30 | DN 65 | - | 3010367 | 20059330 / (20065924 + 20059330) ¹ / (3010221 + 20059331) ² | | 20066268 / (20065937 + 20066268) ¹ | |
| 3970161** | CB 5065/1 CT FSM 30 | DN 65 | ◆ | - | | | | |
| 3970148* | CB 5080/1 – FSM 30 | DN 80 | - | 3010367 | 20059331 / (20065937 + 20059331) ¹ / (3010222 + 20059331) ² | | 20066278 / (20065960 + 20066278) ¹ | |
| 3970162** | CB 5080/1 CT FSM 30 | DN 80 | ◆ | - | | | | |
| 3970149* | CB 50100/1 – FSM 30 | DN 100 | - | 3010367 | 20059332 / (20065960 + 20059332) ¹ / (3010223 + 20059331) ² | | 20066284 / (20065968 + 20066284) ¹ | |
| 3970163** | CB 50100/1 CT FSM 30 | DN 100 | ◆ | - | | | | |
| 20015871* | CB 50125/1 – FSM 30 | DN 125 | - | 3010367 | 20059333 / (20065968 + 20059333) ¹ / (3010224 + 20059331) ² | | 20066284 / (20065968 + 20066284) ¹ | |
| 3970196** | CB 50125/1 CT FSM 30 | DN 125 | ◆ | - | | | | |

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.

1) To be used with gas train and burner opening on the left (fan motor side).

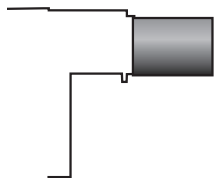
2) To be used with /M (mechanical cam) burners, gas train on the left (fan motor side) and burner opening on the right.

Low NOx Modulating Gas Burners

RS 300÷1200/M BLU SERIES

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.

| BURNER | STANDARD HEAD LENGTH (mm) | EXTENDED HEAD LENGTH (mm) | KIT CODE |
|--------------------|---------------------------|---------------------------|----------|
| ▶ RS 300-400/M BLU | 521 (1) - 373 (2) | 621 (1) - 473 (2) | 3091427 |
| ▶ RS 300-400/M BLU | 521 (1) - 373 (2) | 671 (1) - 523 (2) | 3091919 |
| ▶ RS 300-400/M BLU | 521 (1) - 373 (2) | 721 (1) - 573 (2) | 20022815 |
| ▶ RS 500/M BLU | 521 (1) - 357 (2) | 671 (1) - 507 (2) | 20028449 |

(1) referred to quote F
(2) referred to quote G

Accessories for modulating operation

POWER CONTROLLER



To obtain modulating operation, the RS/M BLU series of burners requires a regulator with three point outlet controls. The following table lists the accessories for modulating operation with their application range.

| BURNER | TYPE | CODE |
|--------------|--|---------|
| ▶ All models | RWF 40 - Basic version with 3 position output | 3010356 |
| | RWF 40 - High version with additional modulating output and RS 485 Interface | 3010357 |

PROBE



The relative temperature or pressure probes fitted to the power controller must be chosen on the basis of the application.

| BURNER | TYPE | RANGE (°C) (bar) | CODE |
|--------------|--------------------|------------------|---------|
| ▶ All models | Temperature PT 100 | -100 ÷ 500°C | 3010110 |
| | Pressure 4 ÷ 20 mA | 0 ÷ 2,5 bar | 3010213 |
| | Pressure 4 ÷ 20 mA | 0 ÷ 16 bar | 3010214 |
| | Pressure 4 ÷ 20 mA | 0 ÷ 25 bar | 3090873 |

ANALOG CONTROL SIGNAL CONVERTER



| BURNER | TYPE (INPUT SIGNAL) | CODE |
|--------------|--|---------|
| ▶ All models | 0/2 - 10 V (impedance 200 KΩ) 0/4 - 20 mA (impedance 250 Ω) | 3010390 |

POTENTIOMETER



| BURNER | KIT CODE |
|--------------------------------|-------------|
| ▶ RS 300-400-500-650-800/M BLU | 3010402 |
| ▶ RS 1000-1200/M BLU | In progress |

Burner accessories

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:

| BURNER | KIT CODE |
|----------------------------|----------|
| ► RS 300-400-500-800/M BLU | 3010094 |
| ► RS 1000-1200/M BLU | 20086519 |

UV cell kit



A UV cell is available for the supervision of the flame alternatively to ionisation probe for special applications.

| BURNER | KIT CODE |
|--------------------------------|----------|
| ► RS 300-400-500-650-800/M BLU | 3010359 |

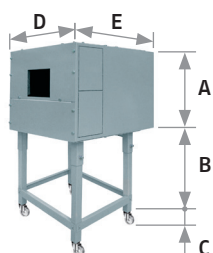
PC interface kit



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 |
|----------------------------|----------|
| ► RS 300-400-500-800/M BLU | 3002719 |

Sound proofing box

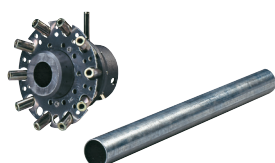


If noise emission needs reducing even further, sound-proofing boxes are available. In case of generator heights, where a lower dimension "B" is required, ask for the Box Support Kit code 20065135. The useful dimensions are 40 mm less than the total dimensions indicated in the table (A, D, E). Not suitable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

| BURNER | BOX TYPE | A (mm) | B (mm) min-max | C (mm) | D (mm) | E (mm) | [dB(A)] (*) | BOX CODE |
|--|----------|--------|----------------|--------|--------|--------|-------------|----------|
| ► RS 300-400-500/M BLU RS 650-800/M BLU | C7 | 1255 | 160 - 980 | 110 | 1140 | 1345 | 10 | 3010376 |
| ► RS 1000-1200/M BLU | C8 | 1425 | 285 - 1000 | 110 | 1500 | 1800 | 10 | 3010401 |

(*) 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 of the burner.

| BURNER | CODE |
|--------------------|--------------|
| ► RS 300/M BLU | 3010445 (*) |
| ► RS 400-500/M BLU | 20012916 (*) |
| ► RS 650/M BLU | in progress |
| ► RS 800/M BLU | 20007822 (*) |

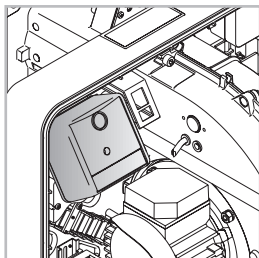
(*) CE approved.

Low NOx Modulating Gas Burners

RS 300÷1200/M BLU SERIES

Burner accessories

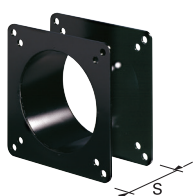
Post-ventilation kit



To have 20 s ventilation after opening of thermostats chain, a special kit is available.

| BURNER | KIT CODE |
|--------------------|----------|
| ► RS 300-400/M BLU | 3010451 |

Spacer kit



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

| BURNER | SPACER THICKNESS S (mm) | KIT CODE |
|--------------------------------|-------------------------|----------|
| ► RS 300-400-500-650-800/M BLU | 180 | 20008903 |

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.

| ADAPTER | DIMENSIONS | | | | ADAPTER CODE |
|-------------------|------------|---------|------|------|--------------|
| | Ø1 DN | Ø2 DN | A mm | B mm | |
| 1" 1/2 2" | - | - | 65 | - | 20064220 |
| 2" 2" | - | - | 65 | - | 20042324 |
| DN 80 2" 1/2 2" | - | - | 300 | - | 3000826 |
| | 2" | 65 / 80 | 230 | 230 | 20064169 |
| | 2" | 65 / 80 | 780 | 230 | 20068062 |
| | 2" | 65 / 80 | 780 | 230 | 20068058 |
| | 65 | 65 / 80 | 230 | 230 | 20059330 |
| | 80 | 65 / 80 | 230 | 230 | 20059331 |
| | 100 | 65 / 80 | 230 | 230 | 20059332 |
| | 125 | 65 / 80 | 245 | 230 | 20059333 |
| | 2" | 65 / 80 | 230 | 375 | 20066253 |
| | 65 | 65 / 80 | 230 | 375 | 20066263 |
| | 80 | 65 / 80 | 230 | 375 | 20066268 |
| | 100 | 65 / 80 | 230 | 375 | 20066278 |
| | 125 | 65 / 80 | 245 | 375 | 20066284 |
| | 65 | 80 | 400 | - | 3010221 |
| | 80 | 80 | 400 | - | 3010222 |
| | 100 | 80 | 400 | - | 3010223 |
| | 125 | 80 | 320 | - | 3010224 |
| | 65 | 65 | 800 | - | 20065924 |
| | 80 | 80 | 800 | - | 20065937 |
| | 100 | 100 | 800 | - | 20065960 |
| | 125 | 125 | 800 | - | 20065968 |

RS 300÷1200/M BLU SERIES

Gas train accessories

Stabiliser spring



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

| GAS TRAIN | SPRING COLOUR | SPRING PRESSURE RANGE mbar | SPRING CODE |
|-------------------------------------|---------------|----------------------------|-------------|
| ▶ MBC 1900/1 - 3100/1 MBC 5000/1 | White | 4 - 20 | 3010381 |
| | Red | 20 - 40 | 3010382 |
| | Black | 40 - 80 | 3010383 |
| | Green | 80 - 150 | 3010384 |
| ▶ CB 512/1 | Red | 25 - 55 | 3010131 |
| | Black | 60 - 110 | 3010157 |
| | Pink | 90 - 150 | 3090486 |
| ▶ CB 520/1 - 525/1 | Red | 25 - 55 | 3010132 |
| | Black | 60 - 110 | 3010158 |
| | Pink | 100 - 150 | 3090487 |
| ▶ CB 5065/1 - 5080/1 | Red | 25 - 55 | 3010133 |
| | Black | 60 - 110 | 3010135 |
| | Pink | 100 - 150 | 3090456 |
| | Grey | 140 - 200 | 3090992 |
| ▶ CB 50100/1 | Red | 25 - 55 | 3010134 |
| | Black | 60 - 110 | 3010136 |
| | Pink | 100 - 150 | 3090489 |
| | Grey | 140 - 200 | 3092174 |
| ▶ CB 50125/1 | Red | 25 - 55 | 3010315 |
| | Yellow | 30 - 70 | 3010316 |
| | Black | 60 - 110 | 3010317 |
| | Pink | 100 - 150 | 3010318 |

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.

| GAS TRAIN | KIT CODE for 50 Hz operation | KIT CODE for 60 Hz operation |
|--------------|------------------------------|------------------------------|
| ▶ MB/1 type | 3010123 | 20050030 |
| ▶ MCB/1 type | 3010367 | 20050030 |