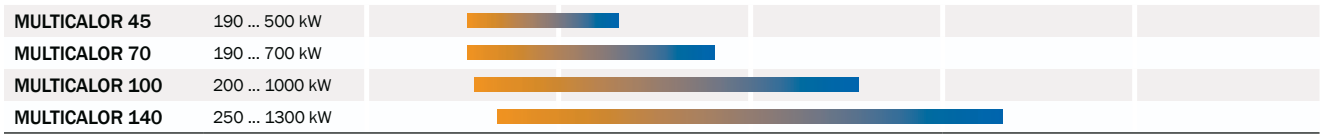
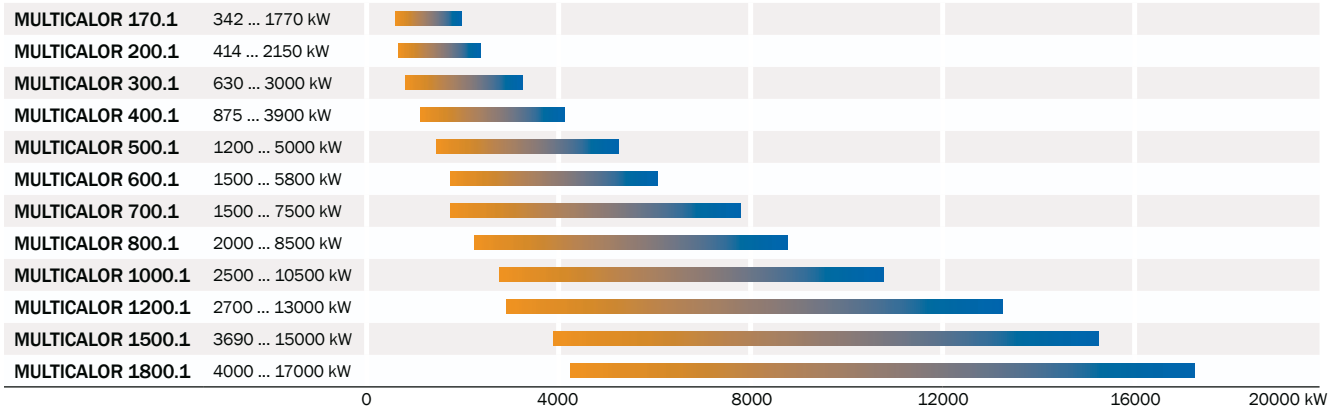
Ecoflam

# TECHNICAL CATALOGUE

www.ecoflam-burners.com

## RANGE OVERVIEW




## MAIN FEATURES

- Two stage version with electric servomotor and integrated system for the regulation of air and fuel (from MULTICALOR 45 to MULTICALOR 200.1)
- Progressive version with electric servomotor and double adjustable mechanical cam that allows air and fuel fine tuning
- Version with fully electronic Burner Management System available for all models
- Adjustable combustion head for easy regulation and matching with different combustion chambers
- Configurated and special versions on request according to feasibility



## CONFIGURATIONS

MULTICALOR range is available in the following operation modes:

| | | |
|---|---|---|
| **MULTICALOR** | Two stages in gas and in light oil | MULTICALOR 45 ... 200.1 |
| **MULTICALOR ... PR/AB** | Two stage progressive/modulating mechanical in gas / two stages in light oil | MULTICALOR 70 PR/AB ... 200.1 PR/AB |
| **MULTICALOR ... PR** | Two stage progressive/modulating mechanical in gas and in light oil | MULTICALOR 70 PR ... 1800.1 PR |
| **MULTICALOR ... PRE** | Two stages progressive/modulating electronic in gas and in light oil | MULTICALOR 70 PRE ... 1800.1 PRE |

**Other available configurations:**
- Continuous ventilation versions
- Swirl system for flame geometry customization
- OEM and special versions on request according to feasibility

### FUEL

- Natural gas (G20, G25 according to EN676)
- LPG
- Light oil (viscosity from 1,6 cSt to 6 cSt at 20°C)

### EMISSIONS

| Class | Gas NOx mg/kWh |
|---|---|
| 1 | 170 |
| **2** | **120** |
| 3 | 80 |

| Class | Oil NOx mg/kWh |
|---|---|
| **1** | **250** |
| 2 | 185 |
| 3 | 120 |

All models are in compliance with EN 676 and EN 267 European Standard

### CONFORM TO

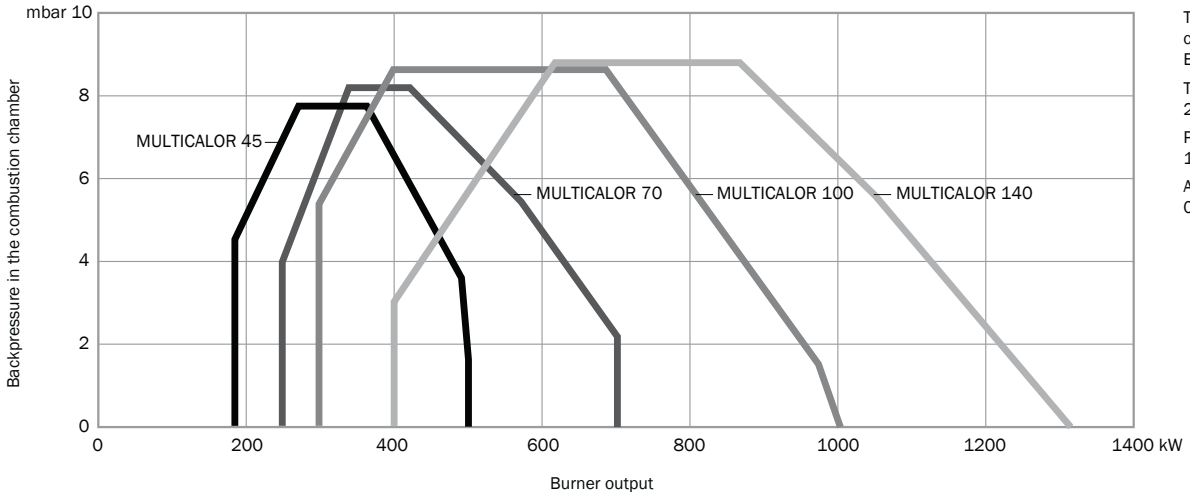
All products are built in accordance with the following directives:
- 2006/42/EC Machinery Directive
- 2014/30/UE EMC Directive
- 2014/35/UE Low Voltage Directive
- 2009/142/CEE Gas Appliances Directive

MULTICALOR 800.1 PR

MULTICALOR 1200.1 PR

- Fuel: natural gas, LPG; light oil (viscosity from 1,6 cSt to 6 cSt at 20°C)
- Operation: two stages
- Emission class: Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas and class 1 (≤250 mg/kWh) according to EN267 in oil

## WORKING DIAGRAM




Test conditions conforming to EN676 and EN267

Temperature: 20°C

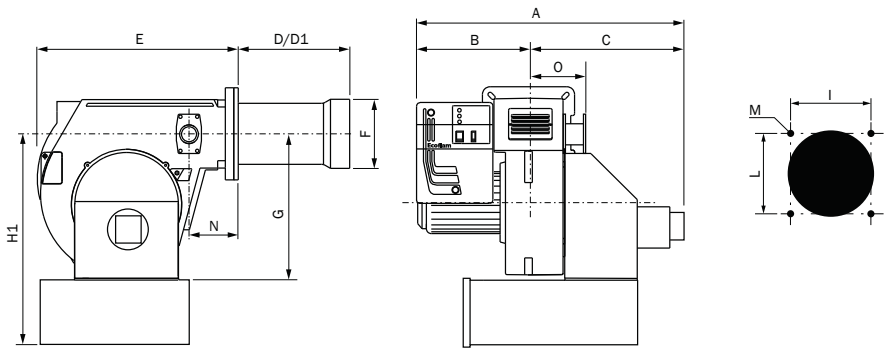
Pressure: 1013,5 mbar

Altitude: 0 m a.s.l.

## TECHNICAL DATA

| | Burner output (kW) | Flow rate (kg/h) | Power supply | Motor (kW) | NOx class | Operation |
|---|---|---|---|---|---|---|
| **MULTICALOR 45** | 190 - 500 | 16 - 42,2 | 3/230-400/50Hz | 0,55 | Class 2 / Class 1 | 2 stages |
| **MULTICALOR 70** | 250 - 700 | 21 - 59 | 3/230-400/50Hz | 1,1 | Class 2 / Class 1 | 2 stages |
| **MULTICALOR 100** | 300 - 1000 | 25,3 - 84,3 | 3/230-400/50Hz | 1,1 | Class 2 / Class 1 | 2 stages |
| **MULTICALOR 140** | 400 - 1300 | 33,1 - 110 | 3/230-400/50Hz | 2,2 | Class 2 / Class 1 | 2 stages |

## OVERALL DIMENSIONS




Dimensions in **mm**
Head lenght: **D** short / **D1** long
*: with silencer (optional)

| | A | B | C | D | D1 | E | F | G | H1* | I | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MULTICALOR 45** | 1045 | 510 | 535 | 175 | 335 | 555 | 160 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |
| **MULTICALOR 70** | 1045 | 510 | 535 | 175 | 395 | 555 | 180 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |
| **MULTICALOR 100** | 1045 | 510 | 535 | 175 | 395 | 555 | 190 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |
| **MULTICALOR 140** | 1070 | 510 | 560 | 307 | 457 | 555 | 215 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |

## BURNERS

### Two stages in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 45 | TC | 3140429 |
| | TL | 3140428 |
| MULTICALOR 70 | TC | 3140431 |
| | TL | 3140430 |
| MULTICALOR 100 | TC | 3140433 |
| | TL | 3140432 |
| MULTICALOR 140 | TC | 3140439 |
| | TL | 3140438 |

MULTICALOR 100

## OTHER AVAILABLE CONFIGURATIONS

| 60 Hz | Continuous Ventilation (CV) | Post-purge |
|---|---|---|
| ● | ● | ● |

● Codes available on request

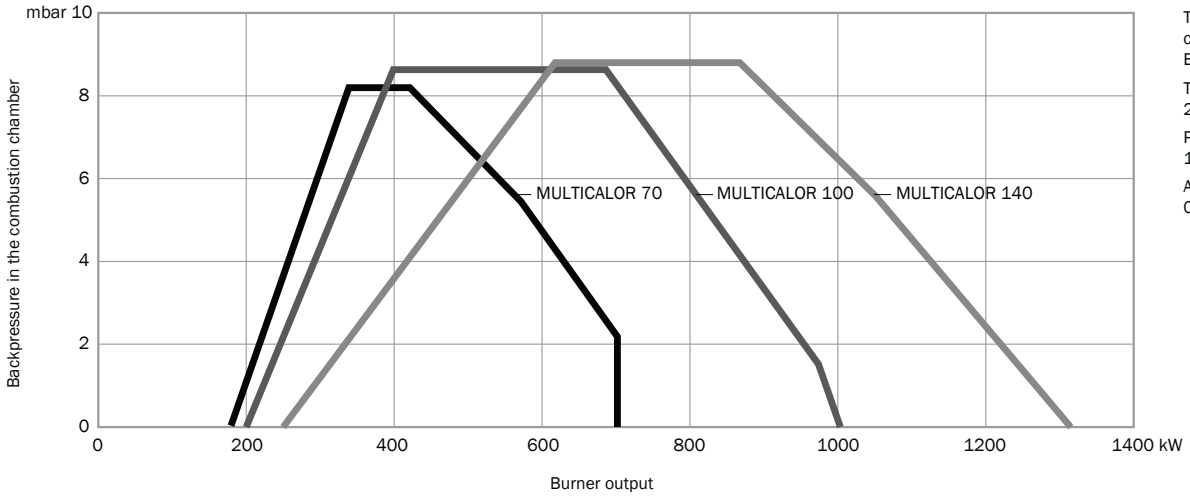
## GAS TRAINS

| | Pressure (mbar) | | Model | Size | Code | Filter |
|---|---|---|---|---|---|---|
| | min | max | | | | |
| for MULTICALOR 45 | 15 | 360 | MB-DLE 415 | 1"1/2 | 3141846 | included |
| | 30 | 360 | MB-DLE 412 | 1"1/4 | 3141845 | included |
| | 50 | 360 | MB-DLE 410 | 1" | 3142022 | included |
| | 85 | 360 | MB-DLE 407 | 3/4" | 3141843 | included |
| for MULTICALOR 70 | 17 | 360 | MB-DLE 420 | 2" | 3141847 | included |
| | 25 | 360 | MB-DLE 415 | 1"1/2 | 3141846 | included |
| | 75 | 360 | MB-DLE 410 | 1" | 3142022 | included |
| for MULTICALOR 100 | 27 | 360 | MB-DLE 420 | 2" | 3141847 | included |
| | 35 | 360 | MB-DLE 415 | 1"1/2 | 3141846 | included |
| | 75 | 360 | MB-DLE 412 | 1"1/4 | 3141845 | included |
| for MULTICALOR 140 | 25 | 500 | VGD 20.503 | 2” | 3123860 | 3121384 |
| | 40 | 360 | MB-DLE 420 | 2" | 3141847 | included |
| | 50 | 360 | MB-DLE 415 | 1"1/2 | 3141846 | included |
| | 100 | 360 | MB-DLE 412 | 1"1/4 | 3141845 | included |

! For minimum inlet pressures higher than 250 mbar, choose the pressure switch GW500 (to be fitted during installation on site) - see page 105
For gas trains in EN676 Configuration a tightness control device must be included over 1200 kW (already included on PRE burners) - see page 112

- Fuel: natural gas, LPG; light oil (viscosity from 1,6 cSt to 6 cSt at 20°C)
- Operation: two stage progressive or modulating with the installation of a power regulator and dedicated probes (see page 102) in gas operation and two stages (AB-PR versions) or two stages progressive (PR versions) in light oil operation
- Emission class: Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas and class 1 (≤250 mg/kWh) according to EN267 in oil

## WORKING DIAGRAM




Test conditions conforming to EN676 and EN267

Temperature: 20°C

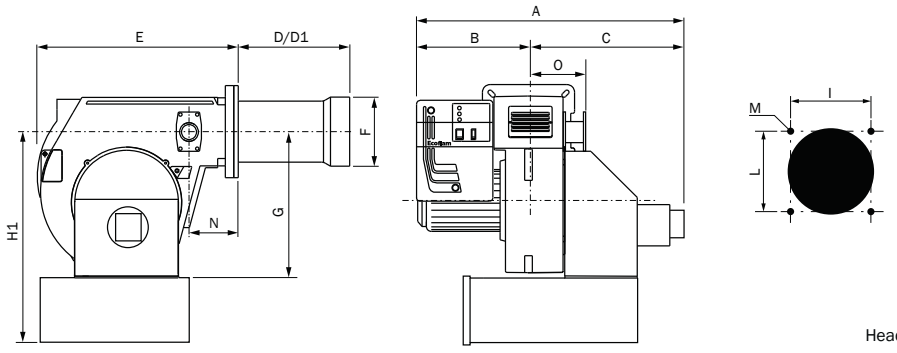
Pressure: 1013,5 mbar

Altitude: 0 m a.s.l.

## TECHNICAL DATA

| | Burner output (kW) | Flow rate (kg/h) | Power supply | Motor (kW) | NOx class | Operation |
|---|---|---|---|---|---|---|
| **MULTICALOR 70** | 190 - 700 | 16 - 59 | 3/230-400/50Hz | 1,1 | Class 2 / Class 1 | PR- AB, PR, PRE |
| **MULTICALOR 100** | 200 - 1000 | 16,9 - 84,3 | 3/230-400/50Hz | 1,1 | Class 2 / Class 1 | PR- AB, PR, PRE |
| **MULTICALOR 140** | 250 - 1300 | 21,1 - 110 | 3/230-400/50Hz | 2,2 | Class 2 / Class 1 | PR- AB, PR, PRE |

## OVERALL DIMENSIONS




Dimensions in **mm**
Head lenght: **D** short / **D1** long
*: with silencer (optional)

| | A | B | C | D | D1 | E | F | G | H1* | I | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MULTICALOR 70 PR-AB** | 780 | 330 | 450 | 175 | 395 | 555 | 180 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |
| **MULTICALOR 100 PR-AB** | 780 | 330 | 450 | 175 | 395 | 555 | 190 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |
| **MULTICALOR 140 PR-AB** | 800 | 350 | 450 | 307 | 457 | 555 | 215 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |
| **MULTICALOR 70 PR** | 1045 | 510 | 535 | 175 | 395 | 760 | 180 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |
| **MULTICALOR 100 PR** | 1045 | 510 | 535 | 175 | 395 | 760 | 190 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |
| **MULTICALOR 140 PR** | 1070 | 510 | 560 | 307 | 457 | 760 | 215 | 390 | 600 | 190 | 190 | M10 | 140 | 165 |

## BURNERS

### Two stage progressive/modulating mechanical in gas - Two stages in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 70 PR-AB | TC | 3142632 |
| | TL | 3142633 |
| MULTICALOR 100 PR-AB | TC | 3142634 |
| | TL | 3142635 |
| MULTICALOR 140 PR-AB | TC | 3142636 |
| | TL | 3142637 |

MULTICALOR 140 PR

### Two stage progressive/modulating mechanical in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 70 PR | TL | on request |
| MULTICALOR 100 PR | TL | on request |
| MULTICALOR 140 PR | TL | on request |

### Two stage progressive/modulating electronic in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 70 PRE | TL | 3145139 |
| MULTICALOR 100 PRE | TL | 3145140 |
| MULTICALOR 140 PRE | TL | 3145141 |

! Nozzle not included in the code of the burner - see pag. 114

## OTHER AVAILABLE CONFIGURATIONS

| 60 Hz | Continuous Ventilation (CV) | Post-purge |
|---|---|---|
| ● | ● | ● |

● Codes available on request

## GAS TRAINS

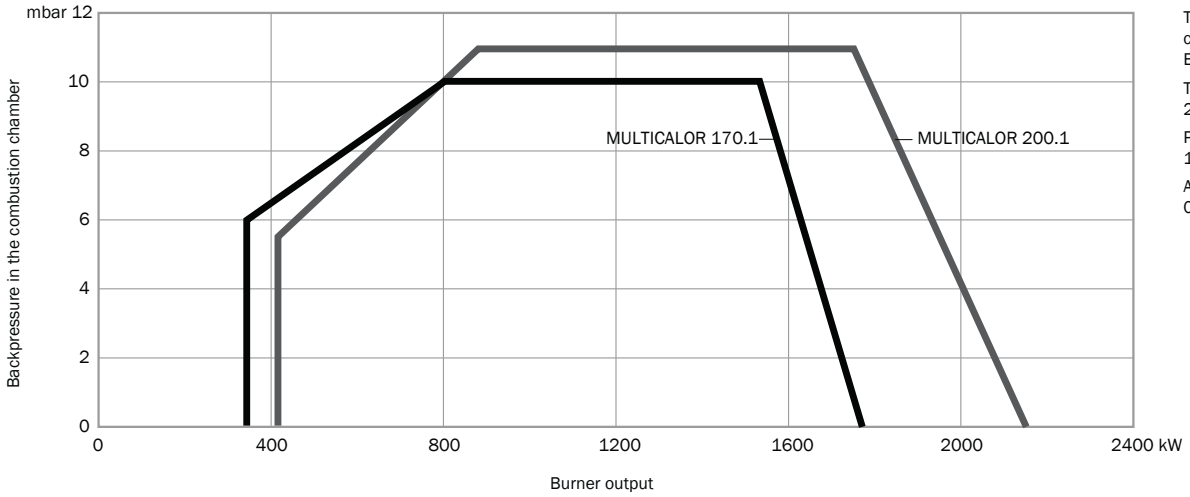
| | Pressure (mbar) | | Model | Size | Code |
|---|---|---|---|---|---|
| | min | max | | | |
| for MULTICALOR 70 | 17 | 360 | MB-DLE 420 | 2" | 3141847 |
| | 25 | 360 | MB-DLE 415 | 1"1/2 | 3141846 |
| | 75 | 360 | MB-DLE 410 | 1" | 3142022 |
| for MULTICALOR 100 | 27 | 360 | MB-DLE 420 | 2" | 3141847 |
| | 35 | 360 | MB-DLE 415 | 1"1/2 | 3141846 |
| | 75 | 360 | MB-DLE 412 | 1"1/4 | 3141845 |
| for MULTICALOR 140 | 40 | 360 | MB-DLE 420 | 2" | 3141847 |
| | 50 | 360 | MB-DLE 415 | 1"1/2 | 3141846 |
| | 100 | 360 | MB-DLE 412 | 1"1/4 | 3141845 |

Note: gas governor and filter are included

! For minimum inlet pressures higher than 250 mbar, choose the pressure switch GW500 (to be fitted during installation on site) - see page 105
For gas trains in EN676 Configuration a tightness control device must be included over 1200 kW (already included on PRE burners) - see page 112

- Fuel: natural gas, LPG; light oil (viscosity from 1,6 cSt to 6 cSt at 20°C)
- Operation: two stages and two stage progressive or modulating with the installation of a power regulator and dedicated probes (see page 102)
- Emission class: Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas and class 1 (≤250 mg/kWh) according to EN267 in oil

## WORKING DIAGRAM




Test conditions conforming to EN676 and EN267

Temperature: 20°C

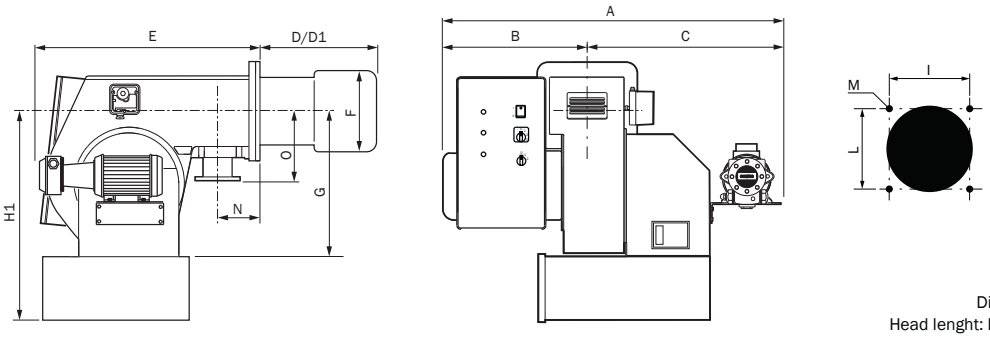
Pressure: 1013,5 mbar

Altitude: 0 m a.s.l.

## TECHNICAL DATA

| | Burner output (kW) | Flow rate (kg/h) | Power supply | Motor (kW) | NOx class | Operation |
|---|---|---|---|---|---|---|
| **MULTICALOR 170.1** | 342 - 1770 | 29 - 150 | 3/230-400/50Hz | 3 | Class 2 / Class 1 | 2 stages, PR-AB, PR, PRE |
| **MULTICALOR 200.1** | 414 - 2150 | 35 - 182 | 3/230-400/50Hz | 4 | Class 2 / Class 1 | 2 stages, PR-AB, PR, PRE |

## OVERALL DIMENSIONS




Dimensions in **mm**
Head lenght: **D** short / **D1** long
*: with silencer (optional)

| | A | B | C | D | D1 | E | F | G | H1* | I | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MULTICALOR 170.1** | 965 | 395 | 570 | 290 | 490 | 700 | 250 | 420 | 680 | 240 | 240 | M14 | 125 | 250 |
| **MULTICALOR 200.1** | 990 | 420 | 570 | 290 | 490 | 700 | 270 | 420 | 680 | 240 | 240 | M14 | 125 | 250 |
| **MULTICALOR 170.1 PR/AB** | 950 | 400 | 550 | 290 | 490 | 770 | 250 | 420 | 680 | 240 | 240 | M14 | 125 | 250 |
| **MULTICALOR 200.1 PR/AB** | 950 | 400 | 550 | 290 | 490 | 770 | 270 | 420 | 680 | 240 | 240 | M14 | 125 | 250 |
| **MULTICALOR 170.1 PR** | 1030 | 520 | 510 | 290 | 490 | 820 | 250 | 420 | 680 | 240 | 240 | M14 | 125 | 250 |
| **MULTICALOR 200.1 PR** | 1030 | 520 | 510 | 290 | 490 | 820 | 270 | 420 | 680 | 240 | 240 | M14 | 125 | 250 |

## BURNERS

### Two stages in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 170.1 | TC | 3142628 |
| | TL | 3142629 |
| MULTICALOR 200.1 | TC | 3142630 |
| | TL | 3142631 |


MULTICALOR 170.1 PR-AB

### Two stage progressive/modulating mechanical in gas - 2 stages in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 170.1 PR-AB | TC | 3142638 |
| | TL | 3142639 |
| MULTICALOR 200.1 PR-AB | TC | 3142640 |
| | TL | 3142641 |

### Two stage progressive/modulating mechanical in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 170.1 PR | TL | on request |
| MULTICALOR 200.1 PR | TL | on request |

### Two stage progressive/modulating electronic in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 170.1 PRE | TL | 3145142 |
| MULTICALOR 200.1 PRE | TL | 3145143 |

! Nozzle not included in the code of the burner - see pag. 114

## OTHER AVAILABLE CONFIGURATIONS

| 60 Hz | Continuous Ventilation (CV) | Post-purge |
|---|---|---|
| ● | ● | ● |

● Codes available on request

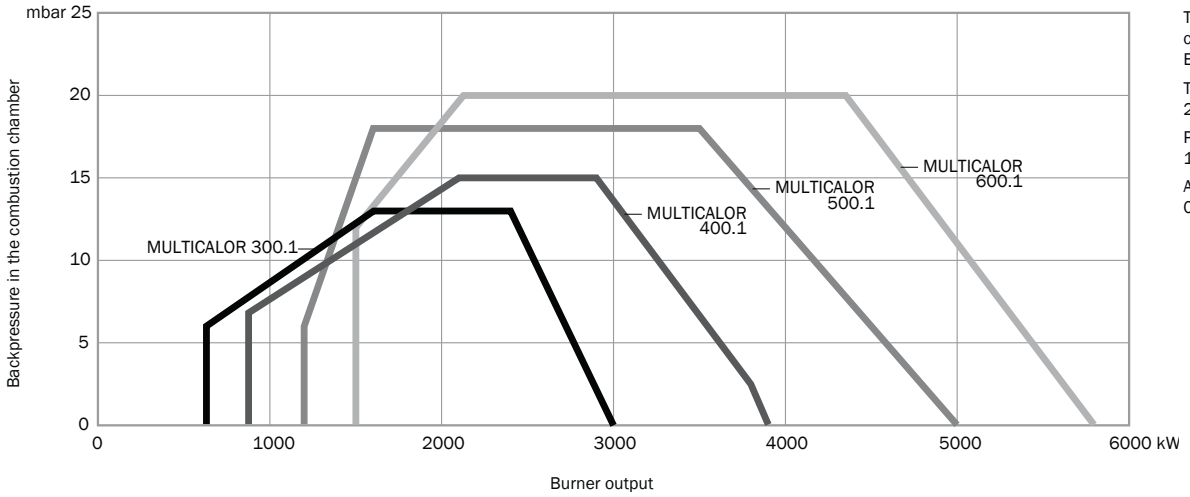
## GAS TRAINS

| | Pressure (mbar) | | Model | Size | Code | Connection pipe | Filter |
|---|---|---|---|---|---|---|---|
| | min | max | | | | | |
| for MULTICALOR 170.1 | 20 | 500 | VGD 40.080 | DN80 | 3142026 | 3142069 | 3142088 |
| | 45 | 500 | VGD 20.503 | 2" | 3123860 | 3142075 | 3121384 |
| | 60 | 360 | MB-DLE 420 | 2" | 3141847 | 3142075 | included |
| | 85 | 360 | MB-DLE 415 | 1"1/2 | 3141846 | 3142075 | included |
| for MULTICALOR 200.1 | 23 | 500 | VGD 40.080 | DN80 | 3142026 | 3142069 | 3142088 |
| | 35 | 500 | VGD 40.065 | 2"1/2 | 3124110 | 3142197 | 3124111 |
| | 60 | 500 | VGD 20.503 | 2" | 3123860 | 3142075 | 3121384 |
| | 75 | 360 | MB-DLE 420 | 2" | 3141847 | 3142075 | included |
| | 100 | 360 | MB-DLE 415 | 1"1/2 | 3141846 | 3142075 | included |

! For minimum inlet pressures higher than 250 mbar, choose the pressure switch GW500 (to be fitted during installation on site) - see page 105
For gas trains in EN676 Configuration a tightness control device must be included over 1200 kW (already included on PRE burners) - see page 112

- Fuel: natural gas, LPG; light oil (viscosity from 1,6 cSt to 6 cSt at 20°C)
- Operation: two stage progressive or modulating with the installation of a power regulator and dedicated probes (see page 102)
- Emission class: Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas and class 1 (≤250 mg/kWh) according to EN267 in oil

## WORKING DIAGRAM




Test conditions conforming to EN676 and EN267

Temperature: 20°C

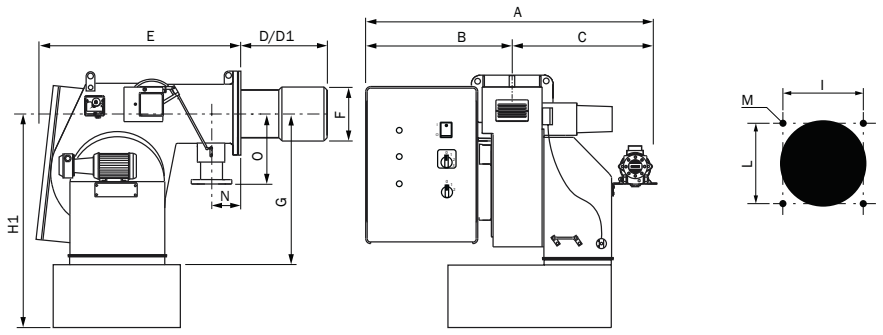
Pressure: 1013,5 mbar

Altitude: 0 m a.s.l.

## TECHNICAL DATA

| | Burner output (kW) | Flow rate (kg/h) | Power supply | Motor (kW) | NOx class | Operation |
|---|---|---|---|---|---|---|
| **MULTICALOR 300.1** | 630 - 3000 | 53 - 253 | 3/400/50Hz | 5,5 | Class 2 / Class 1 | PR, PRE |
| **MULTICALOR 400.1** | 875 - 3900 | 74 - 330 | 3/400/50Hz | 7,5 | Class 2 / Class 1 | PR, PRE |
| **MULTICALOR 500.1** | 1200 - 5000 | 101 - 423 | 3/400/50Hz | 11 | Class 2 / Class 1 | PR, PRE |
| **MULTICALOR 600.1** | 1500 - 5800 | 126 - 490 | 3/400/50Hz | 15 | Class 2 / Class 1 | PR, PRE |

## OVERALL DIMENSIONS




Dimensions in **mm**
Head lenght: **D** short / **D1** long
*: with silencer (optional)

| | A | B | C | D | D1 | E | F | G | H1* | I | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MULTICALOR 300.1** | 1230 | 610 | 620 | 330 | 530 | 900 | 290 | 471 | 746 | 315 | 315 | M16 | 195 | 250 |
| **MULTICALOR 400.1** | 1230 | 610 | 620 | 345 | 545 | 900 | 320 | 471 | 746 | 315 | 315 | M16 | 195 | 250 |
| **MULTICALOR 500.1** | 1200 | 590 | 610 | 355 | 555 | 1000 | 320 | 570 | 965 | 330 | 330 | M16 | 195 | 250 |
| **MULTICALOR 600.1** | 1200 | 590 | 610 | 355 | 555 | 1000 | 320 | 570 | 965 | 330 | 330 | M16 | 195 | 250 |

## BURNERS

### Two stage progressive/modulating mechanical in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 300.1 PR | TC | 3143765 |
| | TL | 3143766 |
| MULTICALOR 400.1 PR | TC | 3143767 |
| | TL | 3143768 |
| MULTICALOR 500.1 PR | TC | 3143769 |
| | TL | 3143770 |
| MULTICALOR 600.1 PR | TC | 3143771 |
| | TL | 3143772 |

MULTICALOR 300.1 PR

### Two stage progressive/modulating electronic in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 300.1 PRE | TC | 3145144 |
| | TL | 3145145 |
| MULTICALOR 400.1 PRE | TC | 3145146 |
| | TL | 3145147 |
| MULTICALOR 500.1 PRE | TC | 3145148 |
| | TL | 3145149 |
| MULTICALOR 600.1 PRE | TC | 3145150 |
| | TL | 3145151 |

! Nozzle not included in the code of the burner - see pag. 114

## OTHER AVAILABLE CONFIGURATIONS

| 60 Hz | Continuous Ventilation (CV) | Post-purge |
|---|---|---|
| ● | ● | ● |

● Codes available on request

## GAS TRAINS

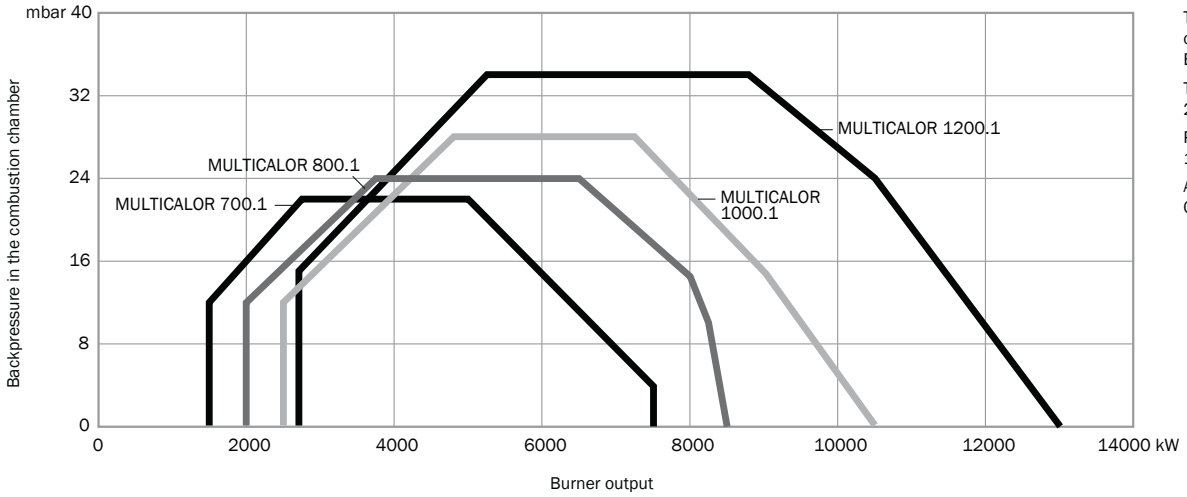
| | Pressure (mbar) | | Model | Size | Code | Connection pipe | Filter |
|---|---|---|---|---|---|---|---|
| | min | max | | | | | |
| for MULTICALOR 300.1 | 22 | 500 | VGD 40.100 | DN100 | 3141869 | 3142069+3142073* | 3142205 |
| | 35 | 500 | VGD 40.080 | DN80 | 3142026 | 3142069 | 3142088 |
| | 55 | 500 | VGD 40.065 | DN65 | 3124110 | 3142197 | 3124111 |
| | 100 | 500 | VGD 20.503 | 2" | 3123860 | 3142075 | 3121384 |
| for MULTICALOR 400.1 | 30 | 500 | VGD 40.100 | DN100 | 3141869 | 3142069+3142073* | 3142205 |
| | 50 | 500 | VGD 40.080 | DN80 | 3142026 | 3142069 | 3142088 |
| | 90 | 500 | VGD 40.065 | DN65 | 3124110 | 3142197 | 3124111 |
| | 170 | 500 | VGD 20.503 | 2" | 3123860 | 3142075 | 3121384 |
| for MULTICALOR 500.1 | 35 | 500 | VGD 40.125 | DN125 | 3142666 | 3142198 | 3142206 |
| | 45 | 500 | VGD 40.100 | DN100 | 3141869 | 3142070+3142073* | 3142205 |
| | 75 | 500 | VGD 40.080 | DN80 | 3142026 | 3142070 | 3142088 |
| | 140 | 500 | VGD 40.065 | DN65 | 3124110 | 3142071 | 3124111 |
| | 250 | 500 | VGD 20.503 | 2" | 3123860 | 3142075 | 3121384 |
| for MULTICALOR 600.1 | 50 | 500 | VGD 40.125 | DN125 | 3142666 | 3142198 | 3142206 |
| | 60 | 500 | VGD 40.100 | DN100 | 3141869 | 3142070+3142073* | 3142205 |
| | 100 | 500 | VGD 40.080 | DN80 | 3142026 | 3142070 | 3142088 |
| | 180 | 500 | VGD 40.065 | DN65 | 3124110 | 3142071 | 3124111 |
| | 340 | 500 | VGD 20.503 | 2" | 3123860 | 3142075 | 3121384 |

*: both codes have to be selected in case of order

! Default blank spring: head pressure 0...22 mbar; choose and change spring and damping (to be fitted during installation on site) - see page 105
For minimum inlet pressures higher than 250 mbar, choose the pressure switch GW500 (to be fitted during installation on site) - see page 105
For gas trains in EN676 Configuration a tightness control device must be included over 1200 kW (already included on PRE burners) - see page 112

- Fuel: natural gas, LPG; light oil (viscosity from 1,6 cSt to 6 cSt at 20°C)
- Operation: two stage progressive or modulating with the installation of a power regulator and dedicated probes (see page 102)
- Emission class: Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas and class 1 (≤250 mg/kWh) according to EN267 in oil

## WORKING DIAGRAM




Test conditions conforming to EN676 and EN267

Temperature: 20°C

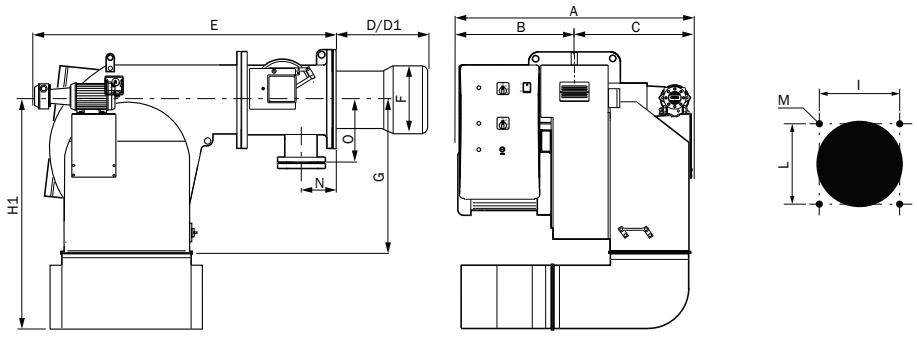
Pressure: 1013,5 mbar

Altitude: 0 m a.s.l.

## TECHNICAL DATA

| | Burner output (kW) | Flow rate (kg/h) | Power supply | Motor (kW) | NOx class | Operation |
|---|---|---|---|---|---|---|
| **MULTICALOR 700.1** | 1500 - 7500 | 126 - 634 | 3/400/50Hz | 15 | Class 2 / Class 1 | PR, PRE |
| **MULTICALOR 800.1** | 2000 - 8500 | 169 - 718 | 3/400/50Hz | 18,5 | Class 2 / Class 1 | PR, PRE |
| **MULTICALOR 1000.1** | 2500 - 10500 | 211 - 887 | 3/400/50Hz | 22 | Class 2 / Class 1 | PR, PRE |
| **MULTICALOR 1200.1** | 2700 - 13000 | 228 - 1099 | 3/400/50Hz | 37 | Class 2 / Class 1 | PR, PRE |

## OVERALL DIMENSIONS




Dimensions in **mm**
Head lenght: **D** short / **D1** long
*: with silencer (optional)

| | A | B | C | D | D1 | E | F | G | H1* | I | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MULTICALOR 700.1** | 1370 | 740 | 630 | 470 | - | 1640 | 420 | 775 | 1270 | 460 | 460 | M20 | 195 | 232 |
| **MULTICALOR 800.1** | 1370 | 740 | 630 | 470 | - | 1640 | 420 | 775 | 1270 | 460 | 460 | M20 | 195 | 232 |
| **MULTICALOR 1000.1** | 1370 | 740 | 630 | 470 | - | 1640 | 420 | 775 | 1270 | 460 | 460 | M20 | 195 | 232 |
| **MULTICALOR 1200.1** | 1430 | 800 | 630 | 470 | - | 1640 | 450 | 775 | 1270 | 460 | 460 | M20 | 195 | 232 |

## BURNERS

### Two stage progressive/modulating mechanical in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 700.1 PR | TC | 3143773 |
| MULTICALOR 800.1 PR | TC | 3143774 |
| MULTICALOR 1000.1 PR | TC | 3143775 |
| MULTICALOR 1200.1 PR | TC | 3143776 |

### Two stage progressive/modulating electronic in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 700.1 PRE | TC | 3145152 |
| MULTICALOR 800.1 PRE | TC | 3145153 |
| MULTICALOR 1000.1 PRE | TC | 3145154 |
| MULTICALOR 1200.1 PRE | TC | 3145155 |

MULTICALOR 800.1 PR

! Nozzle not included in the code of the burner - see pag. 114

## OTHER AVAILABLE CONFIGURATIONS

| 60 Hz | Continuous Ventilation (CV) | Post-purge |
|---|---|---|
| ● | ● | ● |

● Codes available on request

## GAS TRAINS

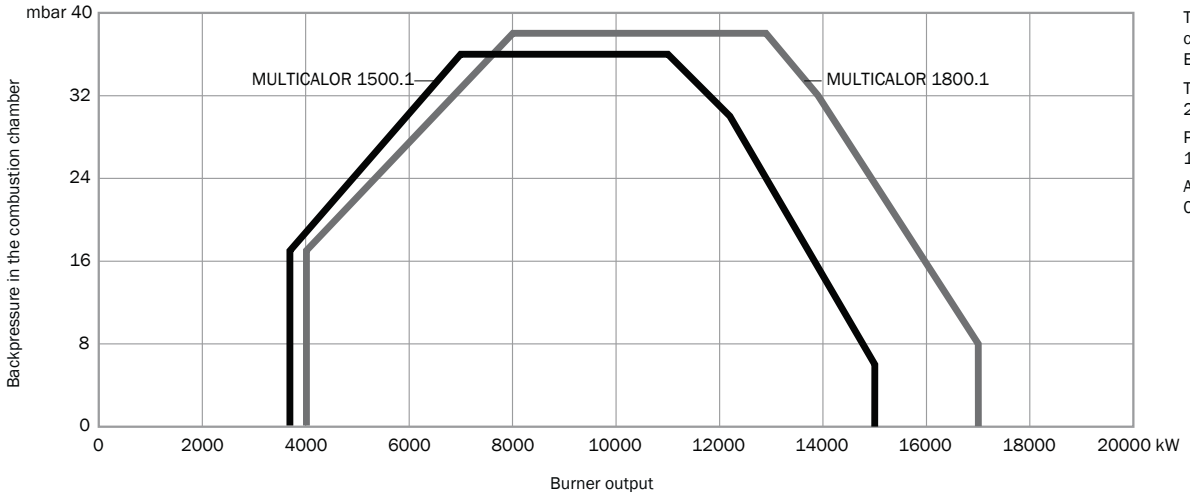
| | Pressure (mbar) | | Model | Size | Code | Connection pipe | Filter |
|---|---|---|---|---|---|---|---|
| | min | max | | | | | |
| for MULTICALOR 700.1 | 60 | 500 | VGD 40.125 | DN125 | 3142666 | 3142422+3142425* | 3142206 |
| | 75 | 500 | VGD 40.100 | DN100 | 3141869 | 3142422 | 3142205 |
| | 140 | 500 | VGD 40.080 | DN80 | 3142026 | 3142424 | 3142088 |
| | 280 | 500 | VGD 40.065 | DN65 | 3124110 | 3142423 | 3124111 |
| for MULTICALOR 800.1 | 85 | 500 | VGD 40.125 | DN125 | 3142666 | 3142422+3142425* | 3142206 |
| | 110 | 500 | VGD 40.100 | DN100 | 3141869 | 3142422 | 3142205 |
| | 210 | 500 | VGD 40.080 | DN80 | 3142026 | 3142424 | 3142088 |
| | 410 | 500 | VGD 40.065 | DN65 | 3124110 | 3142423 | 3124111 |
| for MULTICALOR 1000.1 | 115 | 500 | VGD 40.125 | DN125 | 3142666 | 3142422+3142425* | 3142206 |
| | 165 | 500 | VGD 40.100 | DN100 | 3141869 | 3142422 | 3142205 |
| | 290 | 500 | VGD 40.080 | DN80 | 3142026 | 3142424 | 3142088 |
| | 550 | 500 | VGD 40.065 | DN65 | 3124110 | 3142423 | 3124111 |
| for MULTICALOR 1200.1 | 175 | 500 | VGD 40.125 | DN125 | 3142666 | 3142422+3142425* | 3142206 |
| | 230 | 500 | VGD 40.100 | DN100 | 3141869 | 3142422 | 3142205 |
| | 420 | 500 | VGD 40.080 | DN80 | 3142026 | 3142424 | 3142088 |

*: both codes have to be selected in case of order

! Default blank spring: head pressure 0...22 mbar; choose and change spring and damping (to be fitted during installation on site) - see page 105
For minimum inlet pressures higher than 250 mbar, choose the pressure switch GW500 (to be fitted during installation on site) - see page 105
For gas trains in EN676 Configuration a tightness control device must be included over 1200 kW (already included on PRE burners) - see page 112

- Fuel: natural gas, LPG; light oil (viscosity from 1,6 cSt to 6 cSt at 20°C)
- Operation: two stage progressive or modulating with the installation of a power regulator and dedicated probes (see page 102)
- Emission class: Low NOx class 2 (≤120 mg/kWh) according to EN676 in gas and class 1 (≤250 mg/kWh) according to EN267 in oil

## WORKING DIAGRAM




Test conditions conforming to EN676 and EN267

Temperature: 20°C

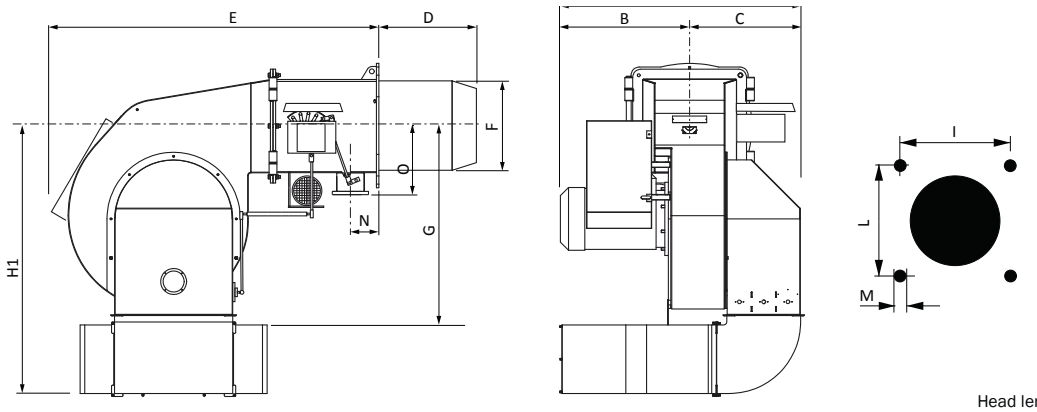
Pressure: 1013,5 mbar

Altitude: 0 m a.s.l.

## TECHNICAL DATA

| | Burner output (kW) | Flow rate (kg/h) | Power supply | Motor (kW) | NOx class | Operation |
|---|---|---|---|---|---|---|
| **MULTICALOR 1500.1** | 3690 - 15000 | 312 - 1268 | 3/400/50Hz | 45 | Class 2 / Class 1 | PR, PRE |
| **MULTICALOR 1800.1** | 4000 - 17000 | 338 - 1437 | 3/400/50Hz | 55 | Class 2 / Class 1 | PR, PRE |

## OVERALL DIMENSIONS




Dimensions in **mm**
Head lenght: **D** short / **D1** long
*: with silencer (optional)

| | A | B | C | D | D1 | E | F | G | H1* | I | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MULTICALOR 1500.1** | 1700 | 800 | 900 | 590 | - | 1910 | 550 | 1320 | 1670 | 619 | 619 | M20 | 210 | 320 |
| **MULTICALOR 1800.1** | 1770 | 870 | 900 | 590 | - | 1910 | 550 | 1320 | 1670 | 619 | 619 | M20 | 210 | 320 |

## BURNERS

### Two stage progressive/modulating mechanical in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 1500.1 PR | TC | 3143777 |
| MULTICALOR 1800.1 PR | TC | 3143778 |

### Two stage progressive/modulating electronic in gas and in light oil

| Model | Head | Code |
|---|---|---|
| MULTICALOR 1500.1 PRE | TC | 3145156 |
| MULTICALOR 1800.1 PRE | TC | on request |

! Nozzle not included in the code of the burner - see pag. 114

MULTICALOR 1500.1 PR

## OTHER AVAILABLE CONFIGURATIONS

| 60 Hz | Continuous Ventilation (CV) | Post-purge |
|---|---|---|
| ● | ● | ● |

● Codes available on request

## GAS TRAINS

| | Pressure (mbar) | | Model | Size | Code | Connection pipe | Filter |
|---|---|---|---|---|---|---|---|
| | min | max | | | | | |
| for MULTICALOR 1500.1 | 150 | 500 | VGD 40.125 | DN125 | 3142666 | 3142422+3142425* | 3142206 |
| | 230 | 500 | VGD 40.100 | DN100 | 3141869 | 3142422 | 3142205 |
| | 450 | 500 | VGD 40.080 | DN80 | 3142026 | 3142424 | 3142088 |
| for MULTICALOR 1800.1 | 210 | 500 | VGD 40.125 | DN125 | 3142666 | 3142422+3142425* | 3142206 |
| | 330 | 500 | VGD 40.100 | DN100 | 3141869 | 3142422 | 3142205 |

*: both codes have to be selected in case of order

! Default blank spring: head pressure 0...22 mbar; choose and change spring and damping (to be fitted during installation on site) - see page 105
For minimum inlet pressures higher than 250 mbar, choose the pressure switch GW500 (to be fitted during installation on site) - see page 105
For gas trains in EN676 Configuration a tightness control device must be included over 1200 kW (already included on PRE burners) - see page 112

# MODULATION KIT

## MODULATING PID CONTROLLER - KIT FOR PROGRESSIVE VERSIONS

| Model | Code |
|---|---|
| KITMD-RWF50 | 3143713 |
| KITMD-RWF50 (only for MAX GAS 170...500 PR with Ariston BCU) | 3143922 |
| KITMD-RWF50 (only for MULTICALOR 45...200 PR-AB) | 3144025 |
| KITMD-RWF55 | 3143714 |
| KITMD-RWF55.6 (PID controller with Profibus communication) | 3143830 |

RWF50
Standard solution

RWF55
More functions than RWF50
Not suitable for all burners

## TEMPERATURE AND PRESSURE PROBES

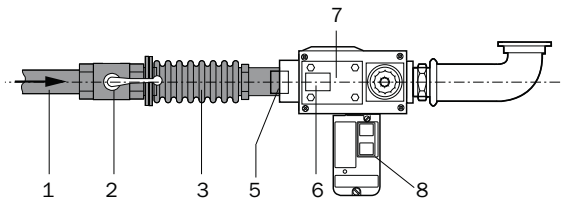
| Model | Designation | Code |
|---|---|---|
| Water probe up to 0÷130°C | PROBE-WATER130C | 3122316 |
| Steam probe 0÷2 bar | PROBE-STEAM2BAR | 3124100 |
| Steam probe 0÷4 bar | PROBE-STEAM4BAR | 3122317 |
| Steam probe 0÷10 bar | PROBE-STEAM10BAR | 3122318 |
| Steam probe 0÷16 bar | PROBE-STEAM16BAR | 3122319 |
| Steam probe 0÷40 bar | PROBE-STEAM40BAR | 3122320 |
| Probe for external temperature from -35° up to 50°C | PROBE-EXTERNAL50C | 3122315 |
| Hot air or liquid probe up to 0÷450°C | PROBE-HOTAIR-LIQUID450C | 3122314 |

## GAS TRAIN COMPOSITION

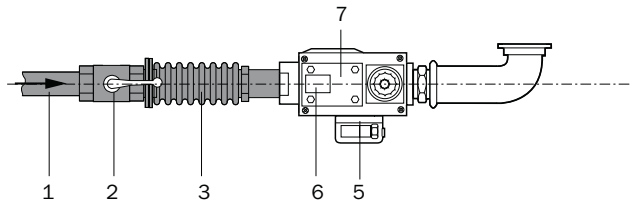
ECOFLAM gas trains are delivered separately for all gas and dual fuel burners and are available in different configurations:
- EN676 standard gas train + kit/accessories in compliance with EN676;
- Export configuration + other additional options to be added by installer in compliance with local safety regulations and codes of practise.

### MULTIBLOC DUNGS

Compact double solenoid valve with built-in filter, gas governor and gas pressure switch



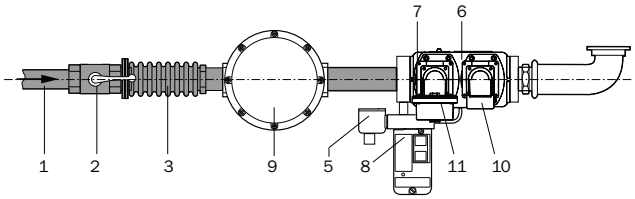

Configuration for electronic burners (PRE):



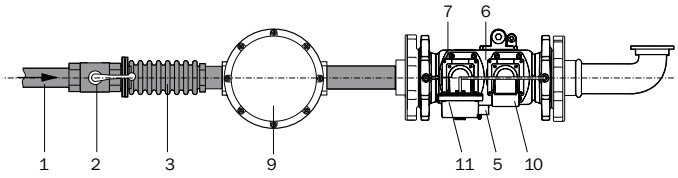

| | | |
|---|---|---|
| 1. Main gas pipe | | |
| 2. Ball valve | | ACS |
| 3. Antivibrating joint | | ACS |
| 5. Gas pressure switch | EN676 CONFIGURATION | GAS TRAIN |
| 6. Safety + Working gas valve | EN676 CONFIGURATION | GAS TRAIN |
| 7. Gas governor and filter | EN676 CONFIGURATION | GAS TRAIN |
| 8. Tightness control [1] | EN676 CONFIGURATION | KITTC [1] |
| Maximum gas pressure switch (kit) | | KITPRES |
| Gas train connection pipe [2] | | GTCP [2] |

### VGD SIEMENS

Double gas valve with actuators, gas regulator and gas pressure switch (gas filter not included)




Configuration for electronic burners (PRE):




| | | |
|---|---|---|
| 1. Main gas pipe | | |
| 2. Ball valve | | ACS |
| 3. Antivibrating joint | | ACS |
| 5. Gas pressure switch | EXPORT / EN676 CONFIGURATION | GAS TRAIN |
| 6. Safety gas valve + 10. Actuator | EXPORT / EN676 CONFIGURATION | GAS TRAIN |
| 7. Working gas valve + 11. Actuator | EXPORT / EN676 CONFIGURATION | GAS TRAIN |
| 8. Tightness control [1] | EN676 CONFIGURATION | KITTC [1] |
| 9. Gas filter | EN676 CONFIGURATION | ACS |
| Maximum gas pressure switch (kit) | | KITPRES |
| Gas train connection pipe [2] | | GTCP [2] |

! [1]: according to the European Standard for gas trains in EN676 Configuration a tightness control device must be included over 1200 kW (already included on PRE burners)
[2]: starting from models BLU 1700.1 / MULTICALOR 170.1 / MULTIFLAM 300.1, in order to fit the gas train, the corresponding connection pipe must be ordered

! for VGD gas trains in EN676 Configuration a filter must be ordered as a separate device

! Default blank spring: head pressure 0...22 mbar; starting from BLU 3000.1/MULTICALOR 300.1/MULTIFLAM 300.1 choose and change spring and damping (to be fitted during installation on site)

! For minimum inlet pressures higher than 250 mbar, choose the pressure switch GW500 (to be fitted during installation on site)

## Gas trains for MAX GAS in EN676 Configuration

**MB-DLE MultiBloc Dungs for MAX GAS 40-250**

| Model | Size | Code |
|---|---|---|
| GT-D1-MBC65DLE-RP15-MAXGAS40-120 | RP 15 - 1/2” | 3141885 |
| GT-D1-MBC120DLE-RP20-MAXGAS40-120 | RP 20 - 3/4” | 3141886 |
| GT-D1-MBDLE403-RP15-MAXGAS40-120 | RP 15 - 1/2” | 3123944 |
| GT-D1-MBDLE405-RP20-MAXGAS40-120 | RP 20 - 3/4” | 3123560 |
| GT-D1-MBDLE407-RP20-MAXGAS170-250 | RP 20 - 3/4” | 3123525 |
| GT-D1-MBDLE410-RP25-MAXGAS170-250 | RP 25 - 1” | 3123947 |
| GT-D1-MBDLE412-RP32-MAXGAS170-250 | RP 32 - 1”1/4 | 3141899 |
| GT-D1-MBDLE415-RP40-MAXGAS170-250 | RP 40 - 1”1/2 | 3123969 |

**MB-ZRDLE MultiBloc Dungs for MAX GAS 40-250**

| Model | Size | Code |
|---|---|---|
| GT-D2-MBZRDLE405-RP20-MAXGAS40-120 | RP 20 - 3/4” | 3123960 |
| GT-D2-MBZRDLE407-RP20-MAXGAS170-250 | RP 20 - 3/4” | 3123961 |
| GT-D2-MBZRDLE410-RP25-MAXGAS170-250 | RP 25 - 1” | 3123962 |
| GT-D2-MBZRDLE412-RP32-MAXGAS170-250 | RP 32 - 1”1/4 | 3141901 |
| GT-D2-MBZRDLE415-RP40-MAXGAS170-250 | RP 40 - 1”1/2 | 3123879 |

**MB-DLE MultiBloc Dungs for MAX GAS 350-500**

| Model | Size | Code |
|---|---|---|
| GT-D2-MBDLE407-RP20-MAXGAS350-500 | RP 20 - 3/4” | 3142392 |
| GT-D2-MBDLE410-RP25-MAXGAS350-500 | RP 25 - 1” | 3142665 |
| GT-D2-MBDLE412-RP32-MAXGAS350-500 | RP 32 - 1”1/4 | 3142295 |
| GT-D2-MBDLE415-RP40-MAXGAS350-500 | RP 40 - 1”1/2 | 3142296 |

! “EN676 Configuration” includes all the mandatory components in order to comply with EN676 regulation. Additional accessories and kits shall be installed by the installer in accordance to the local safety regulations and codes of practise.

## Gas trains for MAX GAS in EXPORT Configuration

**Export gas trains for MAX GAS 40-250**

| Model | Size | Code |
|---|---|---|
| GT-B1-E6GSRP-RP15-MAXGAS40-120 | RP 15 - 1/2” | 3141888 |
| GT-B1-EG12L-RP15-MAXGAS40-120 | RP 15 - 1/2” | 3141887 |
| GT-K1-VAS125-RP25-MAXGAS170-250 | RP 25 - 1” | 3142815 |
| GT-K1-VAS240-RP40-MAXGAS170-250 | RP 40 - 1”1/2 | 3142816 |

! Additional accessories and kits shall be installed by the installer in accordance to the local safety regulations and codes of practise.

### Gas trains for BLU, MULTICALOR and MULTIFLAM in EN676 Configuration

| Model | Size | Code |
|---|---|---|
| GT-D2-MBDLE407-RP20-BLU/MULTI | RP 20 - 3/4" | 3141843 |
| GT-D2-MBDLE410-RP25-BLU/MULTI | RP 25 - 1" | 3142022 |
| GT-D2-MBDLE412-RP32-BLU/MULTI | RP 32 - 1"1/4 | 3141845 |
| GT-D2-MBDLE415-RP40-BLU/MULTI | RP 40 - 1"1/2 | 3141846 |
| GT-D2-MBDLE420-RP50-BLU/MULTI | RP 50 - 2" | 3141847 |

### Gas trains for BLU, MULTICALOR and MULTIFLAM in EXPORT Configuration

| Model | Size | Code |
|---|---|---|
| GT-S1-VGD20-RP50-PS1 | RP 50 - 2" | 3123860 |
| GT-S1-VGD40-DN65-PS1 | DN 65 | 3124110 |
| GT-S1-VGD40-DN80-PS1 | DN 80 | 3142026 |
| GT-S1-VGD40-DN100-PS1 | DN 100 | 3141869 |
| GT-S1-VGD40-DN125-PS1 | DN 125 | 3142666 |
| Gas pressure switch GW500 A5 150÷500 mbar for VGD4x (flanged valves) | | 3143350 |
| Gas pressure switch GW500 A6 150÷500 mbar for VGD20 (threaded valves) | | 3145164 |
| Yellow spring | Head pressure: 15...120 mbar | 3142204 |
| Damping throttle | | 3142207 |

! Default blank spring: head pressure 0...22 mbar; starting from BLU 3000.1/MULTICALOR 300.1/MULTIFLAM 300.1 choose the yellow spring and the damping throttle (to be fitted during installation on site)

! For minimum inlet pressures higher than 250 mbar, choose the pressure switch GW500 (to be fitted during installation on site)

## GAS TRAINS FOR ELECTRONIC VERSION BURNERS (PRE)

### Gas trains for BLU PRE, MULTICALOR PRE and MULTIFLAM PRE in EN676 Configuration

| Model | Size | Code |
|---|---|---|
| GT-D2-MBDLE407-RP20-BLU/MULTI PS2 | RP 20 - 3/4" | 3144269 |
| GT-D2-MBDLE410-RP25-BLU/MULTI PS2 | RP 25 - 1" | 3144270 |
| GT-D2-MBDLE412-RP32-BLU/MULTI PS2 | RP 32 - 1"1/4 | 3144271 |
| GT-D2-MBDLE415-RP40-BLU/MULTI PS2 | RP 40 - 1"1/2 | 3144272 |
| GT-D2-MBDLE420-RP50-BLU/MULTI PS2 | RP 50 - 2" | 3144273 |

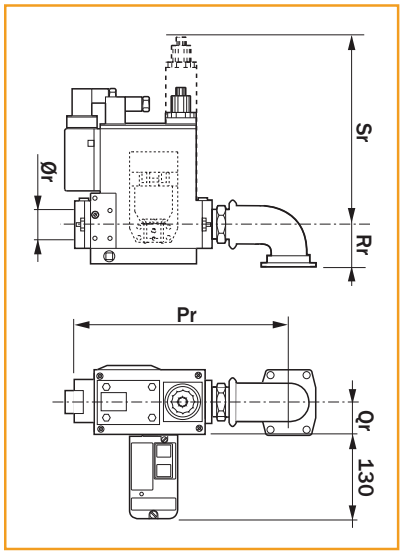
### Gas trains for BLU PRE, MULTICALOR PRE and MULTIFLAM PRE in EXPORT Configuration

| Model | Size | Code |
|---|---|---|
| GT-S2-VGD20-RP50-BLU/MULTI PS2 | RP 50 - 2" | 3144277 |
| GT-S2-VGD40-DN65-BLU/MULTI PS2 | DN 65 | 3144278 |
| GT-S2-VGD40-DN80-BLU/MULTI PS2 | DN 80 | 3144279 |
| GT-S2-VGD40-DN100-BLU/MULTI PS2 | DN 100 | 3144280 |
| GT-S2-VGD40-DN125-BLU/MULTI PS2 | DN 125 | 3144282 |
| Gas pressure switch GW500 A5 150÷500 mbar for VGD4x (flanged valves) | | 3143350 |
| Gas pressure switch GW500 A6 150÷500 mbar for VGD20 (threaded valves) | | 3145164 |
| Yellow spring | Head pressure: 15...120 mbar | 3142204 |
| Damping throttle | | 3142207 |

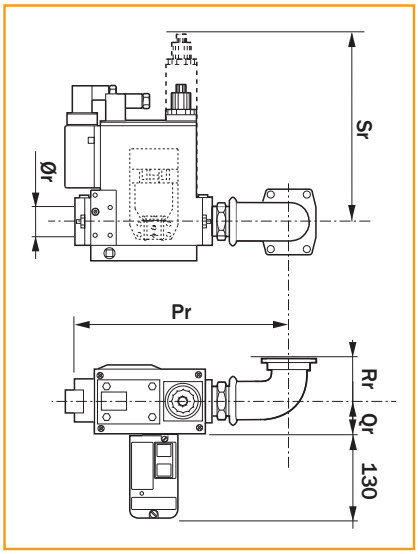
! Default blank spring: head pressure 0...22 mbar; starting from BLU 3000.1/MULTICALOR 300.1/MULTIFLAM 300.1 choose the yellow spring and the damping throttle (to be fitted during installation on site)

! For minimum inlet pressures higher than 250 mbar, choose the pressure switch GW500 (to be fitted during installation on site)

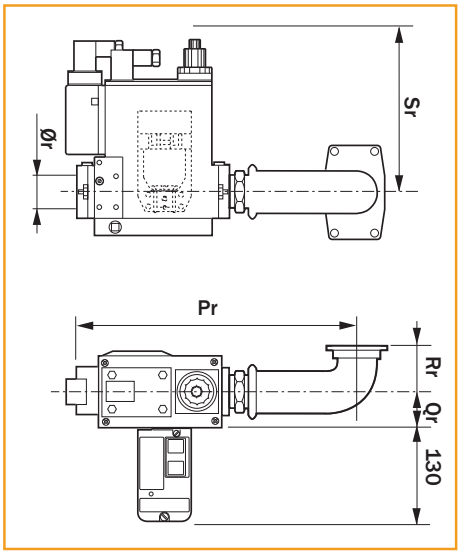
MAX GAS 40 ... 250




MAX GAS 350 - 500

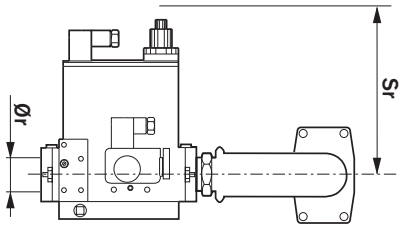


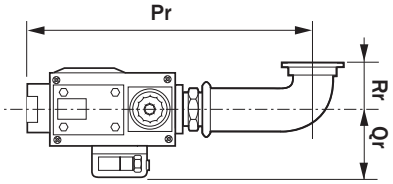

BLU / MULTICALOR / MULTIFLAM




| Code | Gas Train | Ø | Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|---|
| | | | Pr | Qr | Rr | Sr | Ør |
| 3141885 | GT-D1-MBC65DLE-RP15-MAXGAS40-120 | RP 15 - 1/2" | 250 | 42 | 35 | 140 | 1/2" |
| 3141886 | GT-D1-MBC120DLE-RP15-MAXGAS40-120 | RP 15 - 1/2" | 260 | 42 | 35 | 140 | 1/2" |
| 3123944 | GT-D1-MBDLE403-RP15-MAXGAS40-120 | RP 15 - 1/2" | 150 | 29 | 35 | 144 | 1/2" |
| 3123560 | GT-D1-MBDLE405-RP20-MAXGAS40-120 | RP 20 - 3/4" | 194 | 55 | 35 | 140 | 3/4" |
| 3123525 | GT-D1-MBDLE407-RP20-MAXGAS170-250 | RP 20 - 3/4" | 194 | 55 | 55 | 140 | 3/4" |
| 3123947 | GT-D1-MBDLE410-RP25-MAXGAS170-250 | RP 25 - 1" | 218 | 62 | 55 | 160 | 1" |
| 3141899 | GT-D1-MBDLE412-RP32-MAXGAS170-250 | RP 32 - 1"1/4 | 218 | 62 | 55 | 160 | 1"1/4 |
| 3123960 | GT-D2-MBZRDLE405-RP20-MAXGAS40-120 | RP 20 - 3/4" | 194 | 50 | 35 | 210 | 3/4" |
| 3123961 | GT-D2-MBZRDLE407-RP20-MAXGAS170-250 | RP 20 - 3/4" | 194 | 62 | 55 | 210 | 3/4" |
| 3123962 | GT-D2-MBZRDLE410-RP25-MAXGAS170-250 | RP 25 - 1" | 223 | 62 | 55 | 260 | 1" |
| 3141901 | GT-D2-MBZRDLE412-RP32-MAXGAS170-250 | RP 32 - 1"1/4 | 223 | 62 | 55 | 260 | 1"1/4 |
| 3142392 | GT-D1-MBDLE407-RP20-MAXGAS350-500 | RP 20 - 3/4" | 335 | 55 | 150 | 140 | 3/4" |
| 3142665 | GT-D1-MBDLE410-RP25-MAXGAS350-500 | RP 25 - 1" | 335 | 62 | 150 | 160 | 1" |
| 3142295 | GT-D1-MBDLE412-RP32-MAXGAS350-500 | RP 32 - 1"1/4 | 335 | 62 | 150 | 160 | 1"1/4 |
| 3142296 | GT-D1-MBDLE415-RP40-MAXGAS350-500 | RP 40 - 1"1/2 | 400 | 50 | 150 | 175 | 1"1/2 |
| 3141843 | GT-D1-MBDLE407-RP20-BLU/MULTI | RP 20 - 3/4" | 315 | 55 | 85 | 140 | 3/4" |
| 3142022 | GT-D1-MBDLE410-RP25-BLU/MULTI | RP 25 - 1" | 330 | 62 | 85 | 160 | 1" |
| 3141845 | GT-D1-MBDLE412-RP32-BLU/MULTI | RP 32 - 1"1/4 | 330 | 62 | 85 | 160 | 1"1/4 |
| 3141846 | GT-D1-MBDLE415-RP40-BLU/MULTI | RP 40 - 1"1/2 | 410 | 50 | 85 | 175 | 1"1/2 |
| 3141847 | GT-D1-MBDLE420-RP50-BLU/MULTI | RP 50 - 2" | 420 | 50 | 85 | 175 | 2" |

## GAS TRAINS FOR ELECTRONIC VERSION BURNERS (PRE)

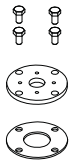


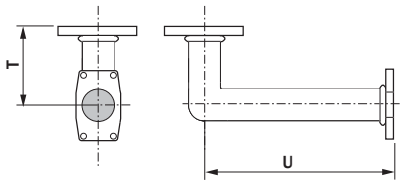

| Code | Gas Train | Ø | Dimensions (mm) | | | | |
|---|---|---|---|---|---|---|---|
| | | | Pr | Qr | Rr | Sr | Ør |
| 3144270 | GT-D1-MBDLE410-RP25-BLU/MULTI PS2 | RP 25 - 1" | 330 | 102 | 85 | 160 | 1" |
| 3144271 | GT-D1-MBDLE412-RP32-BLU/MULTI PS2 | RP 32 - 1"1/4 | 330 | 102 | 85 | 160 | 1"1/4 |
| 3144272 | GT-D1-MBDLE415-RP40-BLU/MULTI PS2 | RP 40 - 1"1/2 | 410 | 90 | 85 | 175 | 1"1/2 |
| 3143970 | GT-D1-MBDLE415-RP40-BLU/MULTI BT320 | RP 40 - 1"1/2 | 410 | 90 | 85 | 175 | 1"1/2 |
| 3144273 | GT-D1-MBDLE420-RP50-BLU/MULTI PS2 | RP 50 - 2" | 420 | 90 | 85 | 175 | 2" |

### GAS TRAIN CONNECTION PIPE

1

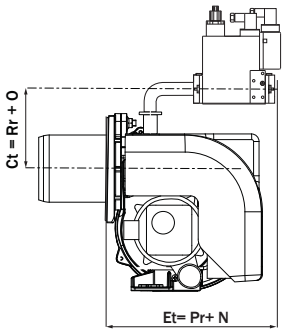


2

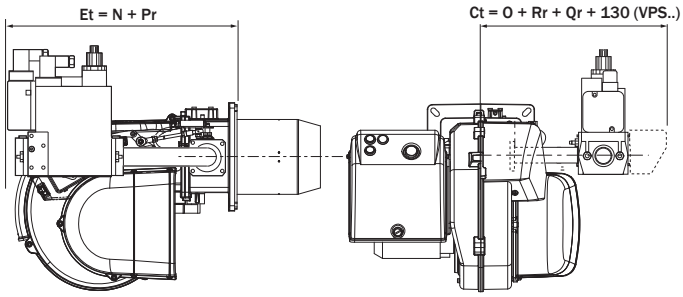



| Code | Designation | Ø | Ref. | Dimensions (mm) | |
|---|---|---|---|---|---|
| | | | | T | U |
| 3122300 | MAX GAS 170-250 | RP 25 - 1" | 1 | 588 | 1" |
| 3142074 | GTCP-RP50-280 | RP 32 - 1"1/4 | 2 | 330 | 1"1/4 |
| 3142075 | GTCP-RP50-280/320/380 | RP 40 - 1"1/2 | 2 | 410 | 1"1/2 |

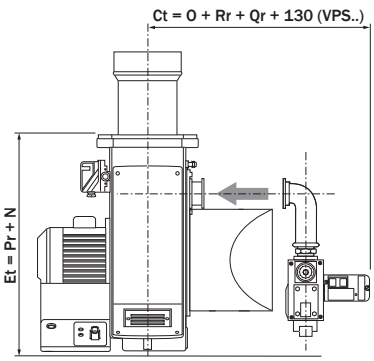
### MAX GAS 170 - 250



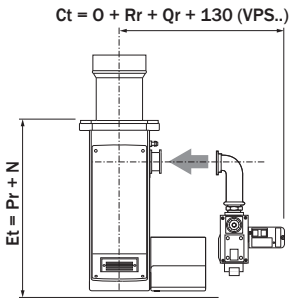

### MAX GAS 350 - 500

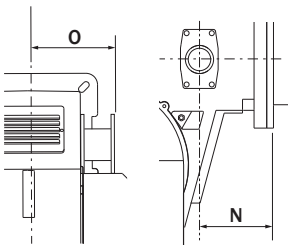



### BLU 700.1 ... 1500.1
### MULTICALOR 35 ... 140

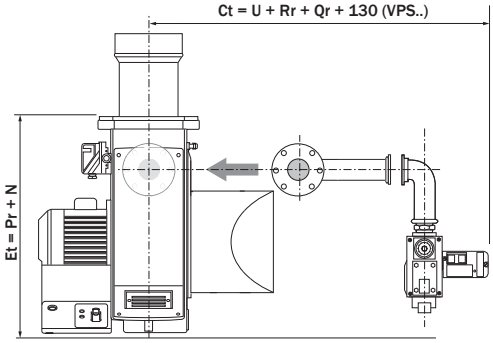



### BLU TS 500.1 - TS 1000.1
### MULTICALOR TS 100 - TS 140

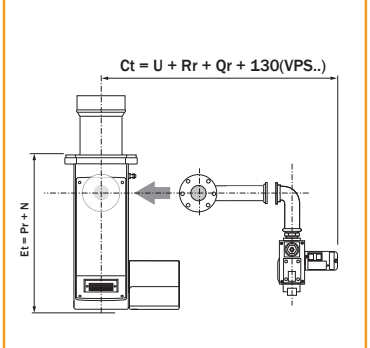


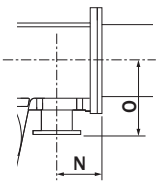




### BLU 1700.1 - 2000.1
### MULTICALOR 170.1 - 200.1

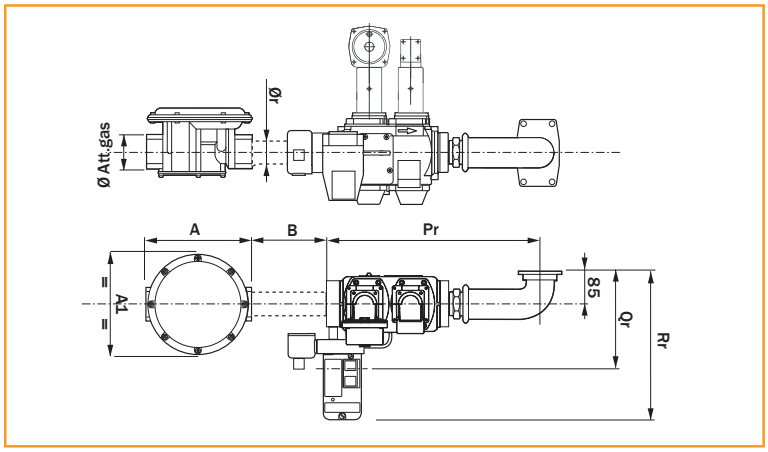



### BLU TS 1500.1 ... TS 34000.1
### MULTICALOR TS 200.1 ... TS 3400.1

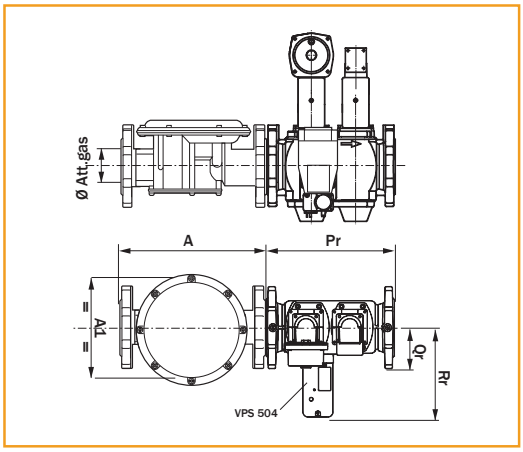


VGD 20...



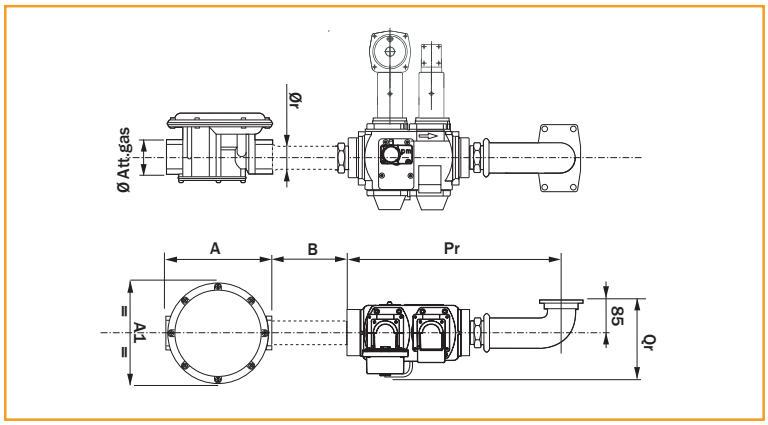

VGD 40...



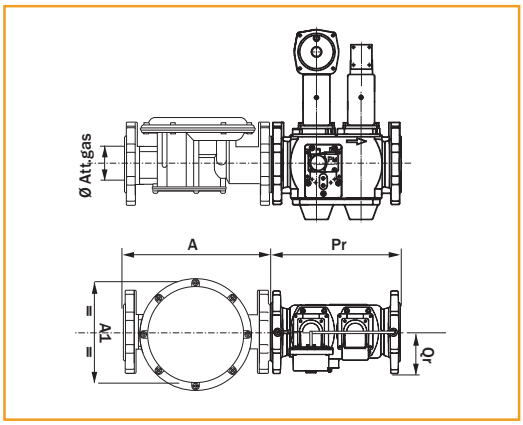

| Code | Gas Train | Ø | Dimensions (mm) | | | |
|---|---|---|---|---|---|---|
| | | | Pr | Qr | Rr | Ør |
| 3123860 | GT-S1-VGD20-RP50-BLU/MULTI | RP 50 - 2" | 450 | 185 | 315 | 2” |
| 3124110 | GT-S1-VGD40-DN65-BLU/MULTI | DN 65 - 2"1/2 | 290 | 97 | 211 | DN65 |
| 3142026 | GT-S1-VGD40-DN80-BLU/MULTI | DN 80 - 3" | 310 | 102 | 218 | DN80 |
| 3141869 | GT-S1-VGD40-DN100-BLU/MULTI | DN 100 - 4" | 350 | 113,5 | 229 | DN100 |
| 3142666 | GT-S1-VGD40-DN125-BLU/MULTI | DN 125 - 5" | 400 | 127,5 | 243 | DN125 |

## GAS TRAINS FOR ELECTRONIC VERSION BURNERS (PRE)

VGD 20...




VGD 40...



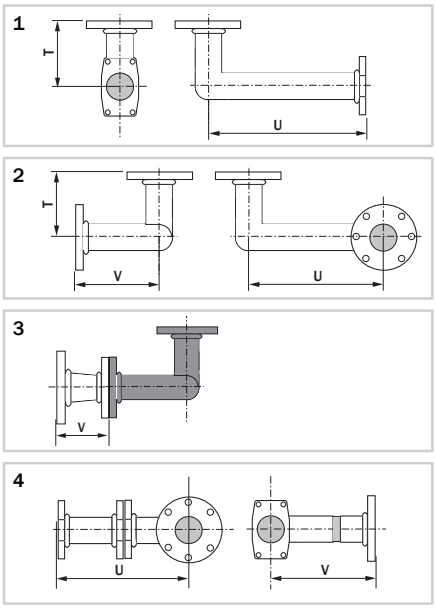

| Code | Gas Train | Ø | Dimensions (mm) | | | |
|---|---|---|---|---|---|---|
| | | | Pr | Qr | Rr | Ør |
| 3144277 | GT-S1-VGD20-RP50-BLU/MULTI PS2 | RP 50 - 2" | 450 | 185 | 315 | 2” |
| 3144278 | GT-S1-VGD40-DN65-BLU/MULTI PS2 | DN 65 - 2"1/2 | 290 | 97 | - | DN65 |
| 3144279 | GT-S1-VGD40-DN80-BLU/MULTI PS2 | DN 80 - 3" | 310 | 102 | - | DN80 |
| 3144280 | GT-S1-VGD40-DN100-BLU/MULTI PS2 | DN 100 - 4" | 350 | 113,5 | - | DN100 |
| 3144282 | GT-S1-VGD40-DN125-BLU/MULTI PS2 | DN 125 - 5" | 400 | 127,5 | - | DN125 |

GAS FILTER

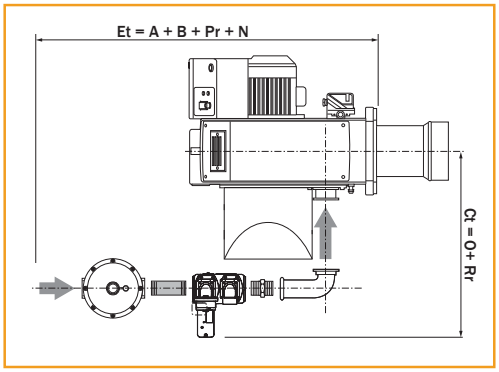
| Code | Gas Train | Ø | Dimensions (mm) | | |
|---|---|---|---|---|---|
| | | | A | A1 | B |
| 3121384 | Gas filter RP 50 - 2” | RP 50 - 2" | 186 | 186 | >100 |
| 3124111 | Gas filter DN 65 | DN 65 - 2"1/2 | 290 | 212 | - |
| 3142088 | Gas filter DN 80 | DN 80 - 3" | 320 | 240 | - |
| 3142205 | Gas filter DN 100 | DN 100 - 4" | 380 | 280 | - |
| 3142206 | Gas filter DN 125 | DN 125 - 5" | 380 | 280 | - |
| 3142808 | Gas filter DN 150 | DN 150 - 6" | 450 | 310 | - |

GAS TRAIN CONNECTION PIPE

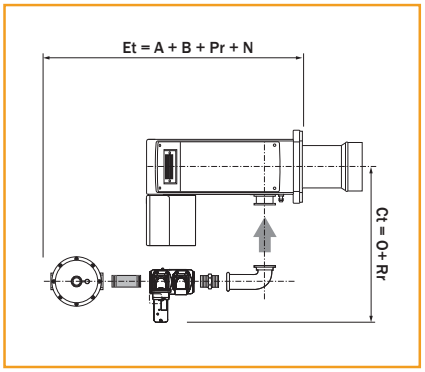
| Code | Designation | Ref. | Dimensions (mm) | | |
|---|---|---|---|---|---|
| | | | T | U | V |
| 3142074 | GTCP-RP50-280 | 1 | 85 | 400 | - |
| 3142075 | GTCP-RP50-280/320/380 | 1 | 85 | 588 | - |
| | | | | | |
| 3142197 | GTCP-DN65-280/320 | 2 | 104 | 560 | 104 |
| 3142069 | GTCP-DN80-280/320 | 2 | 125 | 560 | 125 |
| 3142071 | GTCP-DN65-380 | 2 | 125 | 668 | 125 |
| 3142070 | GTCP-DN80-380 | 2 | 125 | 668 | 125 |
| 3142198 | GTCP-DN125-380 | 2 | 125 | 718 | 164 |
| 3142423 | GTCP-DN65-630 | 2 | 202 | 820 | 108 |
| 3142424 | GTCP-DN80-630/710 | 2 | 221 | 820 | 129 |
| 3142422 | GTCP-DN100-630/710 | 2 | 165 | 820 | 165 |
| | | | | | |
| 3142073 | GTCP-REDUCERDN100TODN80 | 3 | - | - | 130 |
| 3142935 | GTCP-ADAPTORDN80TODN65 | 3 | - | - | 120 |
| 3143080 | GTCP-ADAPTORDN80TORP50 | 3 | - | - | 80 |
| 3142425 | GTCP-REDUCERDN125TODN100* | 3 | - | - | 137 |
| | | | | | |
| 3141842 | GTCP-RP50-DN65-260 | 4 | - | 211 | 165 |

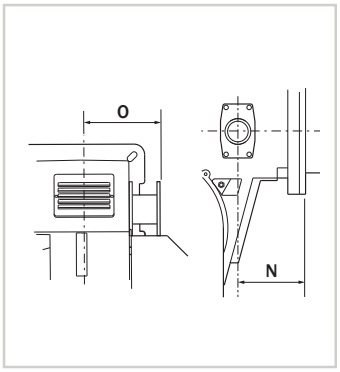



BLU 700.1 ... 1500.1
MULTICALOR 35 ... 140

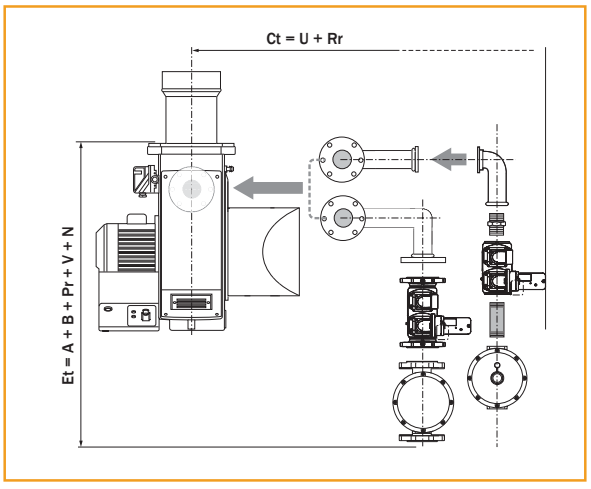



BLU TS 500.1 - TS 1000.1
MULTICALOR TS 100 - TS 140

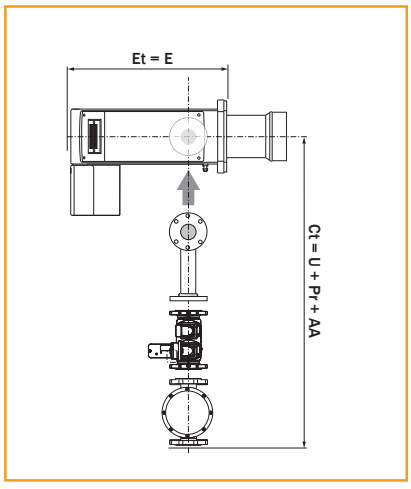


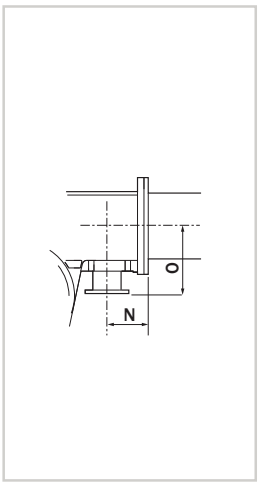




BLU 1700.1 ... 18000.1
MULTICALOR 170.1 ... 1800.1
MULTIFLAM 300.1 ... 1800.1




BLU TS 1500.1 ... TS 34000.1
MULTICALOR TS 200.1 ... TS 3400.1



## GAS GOVERNOR WITH BUILT-IN FILTER

| Size | Maximum gas pressure | Code |
|---|---|---|
| RP 15 - 1/2" (*) | 500 mbar | 3142519 |
| RP 20 - 3/4" (*) | 500 mbar | 3142520 |
| RP 25 - 1" (*) | 500 mbar | 3142521 |
| RP 32 - 1"1/4 (*) | 500 mbar | 3142522 |
| RP 40 - 1"1/2 (*) | 500 mbar | 3142523 |
| RP 50 - 2" (*) | 500 mbar | 3142524 |
| RP50 - 2" | 1 bar | 3142051 |
| DN 65 | 1 bar | 3141983 |
| DN 80 | 1 bar | 3142538 |
| DN 100 | 1 bar | on request |
| DN 125 | 1 bar | on request |

*: Default spring is neutral for outlet pressure range 10 - 30 mbar

## SPRINGS FOR GAS GOVERNOR

| Model | Gas pressure range | Code |
|---|---|---|
| Green spring for sizes 1/2", 3/4", 1" | 5÷15 mbar | 3142547 |
| Neutral spring for sizes 1/2", 3/4", 1" | 10÷30 mbar | 3142548 |
| Violet spring for sizes 1/2", 3/4", 1" | 25÷80 mbar | 3142549 |
| Brown spring for sizes 1/2", 3/4", 1" | 70÷160 mbar | 3142550 |
| Blue spring for sizes 1/2", 3/4", 1" | 150÷280 mbar | 3142551 |
| White spring for sizes 1/2", 3/4", 1" | 270÷350 mbar | 3142552 |
| Green spring for sizes 1"1/4, 1" 1/2 | 5÷15 mbar | 3142553 |
| Neutral spring for sizes 1"1/4, 1" 1/2 | 10÷30 mbar | 3142554 |
| Violet spring for sizes 1"1/4, 1" 1/2 | 20÷70 mbar | 3142555 |
| Brown spring for sizes 1"1/4, 1" 1/2 | 65÷130 mbar | 3142556 |
| White spring for sizes 1"1/4, 1" 1/2 | 120÷250 mbar | 3142557 |
| Black spring for sizes 1"1/4, 1" 1/2 | 240÷350 mbar | 3142558 |
| Green spring for size 2" | 5÷15 mbar | 3142559 |
| Neutral spring for size 2" | 10÷30 mbar | 3142560 |
| Violet spring for size 2" | 30÷80 mbar | 3142561 |
| Brown spring for size 2" | 70÷220 mbar | 3142562 |
| Blue spring for size 2" | 210÷350 mbar | 3142563 |
| Red spring for size DN 65-80 | 25-80 mbar | 3144252 |
| Violet spring for size DN 65-80 | 60-120 mbar | 3144253 |
| Blue spring for size DN 65-80 | 100-220 mbar | 3144254 |
| White spring for size DN 65-80 | 200-450 mbar | 3144255 |
| Red spring for size DN100 | 30-70 mbar | 3144256 |
| Violet spring for size DN100 | 60-110 mbar | 3144257 |
| Brown spring for size DN100 | 100-210 mbar | 3144258 |
| White spring Sfor size DN100 | 200-450 mbar | 3144060 |

## GAS FILTER

| Size | Code |
|---|---|
| RP 15 - 1/2” | 3141957 |
| RP 20 - 3/4” | 3142045 |
| RP 25 - 1” | 3142046 |
| RP 40 - 1”1/2 | 3141954 |
| RP 50 - 2” | 3121384 |
| DN 65 | 3124111 |
| DN 80 | 3142088 |
| DN 100 | 3142205 |
| DN 125 | 3142206 |

## ANTIVIBRATION JOINT

| Size | Code |
|---|---|
| RP 15 - 1/2” | 3122321 |
| RP 20 - 3/4” | 3122322 |
| RP 25 - 1” | 3122323 |
| RP 32 - 1”1/4 | 3122324 |
| RP 40 - 1”1/2 | 3122325 |
| RP 50 - 2” | 3122326 |
| DN 65 | 3142060 |
| DN 80 | 3122328 |
| DN 100 | 3122329 |
| DN 125 | 3142061 |

## MANUAL VALVE

| Size | Code |
|---|---|
| RP 15 - 1/2” | 3142000 |
| RP 20 - 3/4” | 3142254 |
| RP 25 - 1” | 3121430 |
| RP 32 - 1”1/4 | 3142253 |
| RP 40 - 1”1/2 | 3142101 |
| RP 50 - 2” | 3142102 |
| DN 65 | 3142062 |
| DN 80 | 3143730 |
| DN 100 | 3141997 |
| DN 125 | 3141998 |

## MAXIMUM GAS PRESSURE SWITCH

| Model | Output range | Setting range | Code |
|---|---|---|---|
| KITPRES50 | <6 MW | 5÷50 mbar | 3141921 |
| KITPRES150 | 6 MW ÷ 15 MW | 30÷150 mbar | 3142033 |
| KITPRES500 | >15 MW | 50÷500 mbar | 3145166 |

## TIGHTNESS CONTROL

| Model | Designation | Code |
|---|---|---|
| Kit VPS504 for MB-DLE, MB-ZRDLE and VGD65/80/100 valves (not for LPG) | KITTC-VPS504-MB-VGDDN65-80-100 | 3122303 |
| Kit VPS504 for MB-DLE, MB-ZRDLE and VGD65/80/100 valves (only for LPG) | KITTC-LPGVPS504-MB-VGDDN65-80-100 | 3142190 |
| Kit VPS504 for VGD20503 valve (not for LPG) | KITTC-VPS504-VGD20503 | 3122305 |
| Kit VPS504 for VGD20503 valve (only for LPG) | KITTC-LPGVPS504-VGD20503 | 3142688 |
| Kit VDK for VGD DN125/DN150 valves | KITTC-VDK200 | 3141922 |
| Kit LDU | KITTC-LDU11 | 3142314 |
| Adaptor for VPS pilot gas train | | 3142754 |

! For gas trains in EN676 Configuration a tightness control device must be included over 1200 kW (already included on PRE burners)

## MANOMETER + PUSH BUTTON

| Model | Size | Code |
|---|---|---|
| Gas manometer | 1/2", 0...60 mbar | 3142056 |
| Gas manometer | 1/4", 0...250 mbar | 3142055 |
| Gas manometer | 1/4", 0...1000 mbar | 3142054 |
| Push button 1/4" | 1/4" | 3142058 |
| Push button 1/2" | 1/2" | 3142057 |

## KIT LPG

| Model | Burner | Code |
|---|---|---|
| KITLPG-MAXGAS40-120 | MAX GAS 40 ... 120 | 3122301 |
| KITLPG-MAXGAS170-250 | MAX GAS 170 - 250 | 3122302 |
| KITADAPTOR-MAXGAS170-250 (only for MB-xxx 405) | MAX GAS 170 - 250 | 3122300 |
| KITLPG-MAXGAS350-500 | MAX GAS 350 - 500 | 3142431 |
| KIT LPG BLU 700.1/1500.1 | BLU 700.1 ... 1500.1 | 3144610 |

## KIT FOR AUTOMATIC FUEL SWITCH GAS/OIL FOR DUAL FUEL BURNERS

| Model | Code |
|---|---|
| KIT-AUTOMATIC FUEL SWITCH-MULTI for MULTICALOR and MULTIFLAM | 3142021 |

Standard version running on manual fuel selection mode and with the automatic changeover the system change fuel triggered by a gas pressure switch or by a timer

## KIT BIODIESEL

| Model | Suitable for | Code |
|---|---|---|
| KITBIODIESEL-PUMP-AS47 | MAX 1 ... 30 and MAX P 25 AB HS | 3141917 |
| KITBIODIESEL-PUMP-AT2/AT3 | MAX P 12/15 AB HS | 3124103 |

## MAGNETIC + SELFCLEANING FILTER

| Model | Suitable for | Code |
|---|---|---|
| KITOIL50KG-MAGNETIC+SELFCLEANING-Filter | MAXFLAM range | 3142092 |
| KITOIL250KG-MAGNETIC+SELFCLEANING-Filter | OILFLAM range | 3141965 |

## SEPARATE PRE-HEATER UNIT

| Description | Code |
|---|---|
| From OILFLAM 300.1 pre-heater can be supplied separately with extra cost | on request |

## OIL PUMPING UNIT AND DAILY TANK

| Description | Code |
|---|---|
| Separate daily tanks and pumping units | on request |

## HEAVY OIL HEATING AND PUMPING UNIT

| Description | Code |
|---|---|
| “OIL RING” can be design and delivered assembled on skid or offered as single component | on request |

## OIL SPILL BACK NOZZLES

| Size (kg/h) | Code |
|---|---|
| 40 | 3145231 |
| 50 | 3145232 |
| 60 | 3142763 |
| 70 | 3145233 |
| 80 | 3145234 |
| 90 | 3145235 |
| 100 | 3142704 |
| 115 | 3142564 |
| 130 | 3142515 |
| 145 | 3142516 |
| 160 | 3142421 |
| 180 | 3142492 |
| 200 | 3142690 |
| 225 | 3142489 |
| 250 | 3142768 |
| 275 | 3142805 |
| 300 | 3142490 |
| 330 | 3142703 |
| 360 | 3142513 |
| 400 | 3142497 |
| 450 | 3142483 |
| 500 | 3142699 |
| 550 | 3142416 |
| 600 | 3142506 |
| 650 | 3142870 |
| 700 | 3145236 |
| 750 | 3142491 |
| 800 | 3142833 |
| 850 | 3145237 |
| 900 | 3142510 |
| 950 | 3145238 |
| 1000 - A (for models from 700.1 up to 1200.1) | 3142947 |
| 1000 - B (for models 1500.1 and 1800.1) | 3142961 |
| 1100 | 3142769 |
| 1200 | 3144774 |
| 1300 | 3144490 |
| 1400 | 3142776 |
| 1500 | 3145239 |

# OTHER KITS AND ACCESSORIES

## SILENCER

| Designation | Gas | Light oil | Heavy oil | Gas/light oil | Gas/heavy oil |
|---|---|---|---|---|---|
| KITSIL-260 | BLU 700.1 - 1200.1 | MAIOR 45 ... 120 | OILFLAM 50.1 ... 120.1 | MULTICALOR 45 ... 140 | MULTIFLAM 50.1 ... 120.1 |
| KITSIL-280 | BLU 1500.1 - 2000.1 | MAIOR 150.1 - 200.1 | OILFLAM 170.1 - 200.1 | MULTICALOR 170.1 - 200.1 | MULTIFLAM 170.1 - 200.1 |
| KITSIL-320 | BLU 3000.1 - 4000.1 | MAIOR 300.1 - 400.1 | OILFLAM 300.1 - 400.1 | MULTICALOR 300.1 - 400.1 | MULTIFLAM 300.1 - 400.1 |
| KITSIL-380 | BLU 5000.1 - 6000.1 | MAIOR 500.1 - 600.1 | OILFLAM 500.1 - 600.1 | MULTICALOR 500.1 - 600.1 | MULTIFLAM 500.1 - 600.1 |
| KITSIL-630 | BLU 7000.1 ... 12000.1 | MAIOR 700.1 ... 1200.1 | OILFLAM 700.1 ... 1200.1 | MULTICALOR 700.1 ... 1200.1 | MULTIFLAM 700.1 ... 1200.1 |
| KITSIL-710 | BLU 15000.1 - 18000.1 | MAIOR 1500.1 - 1800.1 | OILFLAM 1500.1 - 1800.1 | MULTICALOR 1500.1 - 1800.1 | MULTIFLAM 1500.1 - 1800.1 |

| Designation | Code |
|---|---|
| KITSIL-260 | 3141911 |
| KITSIL-280 | 3122298 |
| KITSIL-320 | 3141913 |
| KITSIL-380 | 3141914 |
| KITSIL-630 | 3142276 |
| KITSIL-710 | 3142668 |

Separate ventilator silencer / silencing box on request

## DIAGNOSTIC TOOL FOR ARISTON BURNER CONTROL

| Description | Code |
|---|---|
| E-BCU Diagnostic tool for 1 stage BCU | 3142931 |
| PC interface for BCU | 3833018 |

## KIT WIELAND PLUGS

| Model | Burner | Code |
|---|---|---|
| KITWP-MAIOR35-300.1PAB | MAIOR 45 - 300.1 | 3142037 |
| KITWP-BLU700.1-2000.1PAB | BLU 700.1 - 2000.1 PAB | 3142034 |
| KITWP-BLU/MULTICALOR-PR/MD | BLU - MULTICALOR PR/MD | 3141932 |

## SWIRL SYSTEM

| Description | Code |
|---|---|
| Swirls for blast tube that can reduce flame lenght | on request |

# OPTIONS FOR ELECTRONIC BURNERS

## GUIDE FOR ELECTRONIC OPTIONS

| Required option / Burners with BT300 control | LCM module variant | Frequency converter arrangement | Frequency converter | $O_2$ trim kit | $O_2$ + CO trim kit | PID load controller kit | Probes | ModBUS/ ProfiBUS KITs |
|---|---|---|---|---|---|---|---|---|
| Power modulation with PID | | | | | | • | • | |
| Frequency converter (installed out of the burner control panel) | • | • | • | | | | | |
| $O_2$ control | • | | | • | | | | |
| $O_2$ + CO control | • | | | | • | | | |
| BUS communication | • | | | | | | | • |

Note: dual fuel burners include LCM module

- **BURNER VARIANTS (options already mounted in factory)**

## LCM MODULE (for communication via BUS, $O_2$ control, frequency converter)

| Description | Code |
|---|---|
| Module mounted in factory, required for $O_2$ control, frequency converter and communication buses connections | on request |

Note: only one LCM module is necessary for these 3 options;
the module is already included on dual fuel burners

## FREQUENCY CONVERTER ARRANGEMENT

| Description | Code |
|---|---|
| Burner prepared to be connected to an external frequency converter | on request |

Note: this variant includes the VSM module to control the frequency converter
LCM module is required and must be added separately
For frequency converter models selection see page 118

- **KITS (supplied loose)**

## REMOTE SOFTWARE

| Description | | Code |
|---|---|---|
| Kit to connect a PC laptop to the BT300 for its parametrization | LSA100 + USB/CAN + CD-Rom | 3751130 |

## COMMUNICATION MODULES

| Description | | Code |
|---|---|---|
| Additional module for BT3xx | ModBus/BT3 | on request |
| | ProfiBus/BT3 | on request |
| | Ethernet/BT3 | on request |

## $O_2$ TRIM for BT300, Etamatic and Etamatic OEM

This device optimizes the combustion in order to keep the air excess as much stable as possible irrespective of the changings that can occur during operations, for instance slight calorific value variations, combustion air temperature and pressure. This improves the seasonal efficiency and therefore reduces the fuel consumption.
The kit includes all the fittings for the installation. Main components are:
- control unit with display;
- probe;
- intake pipe to be fixed to the stack (choose the proper length).

The control unit has to be installed close to the probe (max 20 m of cable)
The probe needs a calibration but no calibration gas is necessary.
The display shows the $O_2$ content
This kit needs a “LCM module” kit installed in the burner control panel (see the relevant section in the catalogue)
Maximum distance between the control unit and the burner control panel is 500 m.

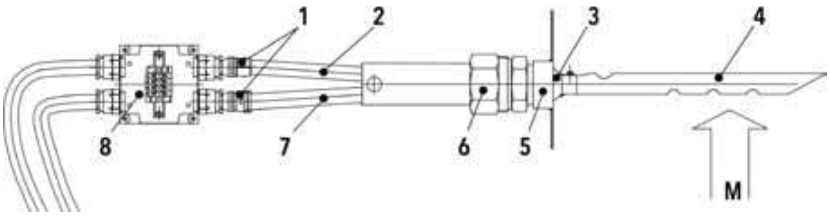
| Description | Output | Probe lenght | Code |
|---|---|---|---|
| Kit for $O_2$ trim - intake pipe 300 mm long - Flue temp max 300 °C - display for $O_2$ visualization | 1 x 4-20 mA | 300 mm | 3751129 |
| Kit for $O_2$ trim - intake pipe 450 mm long - Flue temp max 300 °C - display for $O_2$ visualization | 1 x 4-20 mA | 450 mm | 3756531 |

## $O_2$ TRIM with CO measure for BT300, Etamatic and Etamatic OEM

This device optimizes the combustion in order to keep the air excess as low as possible.
In order to maximize the seasonal efficiency and therefore minimize the fuel consumption.
In addition to the features of the $O_2$ trim only, this kit reduces the air excess to its minimum because this system continuously measures the CO content in the flue: should the air excess be reduced too much, the CO raises and the system reacts by increasing the air excess in order to keep firing in safe conditions.
The kit includes all the fittings for the installation. Main components are:
- control unit with display;
- probe;
- intake pipe to be fixed to the stack (choose the proper length),

The control unit has to be installed close to the probe (max 20 m of cable)
The probe needs a calibration but no calibration gas is necessary.
The display shows the $O_2$ content This kit need a “LCM module” kit installed in the burner control panel (see the relevant section in the catalogue)
Maximum distance between the control unit and the burner control panel is 500 m.

| Description | Output | Probe lenght | Code |
|---|---|---|---|
| $O_2$ trim and CO control kit with 300 mm long probe | None | 300 mm | 3755046 |
| $O_2$ trim and CO control kit with 450 mm long probe | None | 450 mm | 3756533 |




M - measuring gas 300 °C max
1 - plug
2 - probe signal
3 - Lambda Probe, type 650R1000
4 - gas extraction device (GED)
5 - half-collar R11/4“, type 655R1012
6 - probe installation fitting (PIF), type 655R1010
7 - probe heater
8 - probe connection box (PCB), type 655R1025 (optional)
9 - display and operating unit, type 657R0831

# FREQUENCY CONVERTER

## Frequency converter IP 21

| Description | Code |
|---|---|
| 3 kW | 3755418 |
| 4 kW | 3755419 |
| 5,5 kW | 3755420 |
| 7,5 kW | 3755421 |
| 11 kW | 3753996 |
| 15 kW | 3753997 |
| 18,5 kW | 3753998 |
| 22 kW | 3753999 |
| 30 kW | 3755422 |
| 37 kW | 3754484 |
| 45 kW | 3755423 |

## Frequency converter IP 54

| Description | Code |
|---|---|
| 3 kW | 3753013 |
| 4 kW | 3753014 |
| 5,5 kW | 3753015 |
| 7,5 kW | 3753016 |
| 11 kW | 3754361 |
| 15 kW | 3754362 |
| 18,5 kW | 3754363 |
| 22 kW | 3754364 |
| 30 kW | 3754037 |
| 37 kW | 3752317 |
| 45 kW | 3754365 |
| 55 kW | 3753218 |
| 75 kW | 3752318 |

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