

Ecoflam

LIGHT OIL RANGE

MAIOR



CUSTOMIZED BURNERS SOLUTIONS FOR ANY TYPE OF APPLICATION



OUR EXPERIENCE

Thanks to almost 50 years of experience in the design and production of burners, Ecoflam offers a full range of blown air pressure jet burners covering an extremely wide range of power, from small products for residential heating applications to high power burners dedicated to the industrial segment.

Ecoflam burners are renowned worldwide for providing high efficiency and reliable operation with significant energy savings and feature extreme ease of installation, maintenance and flexible boiler-burner matching.

OUR MISSION

Following a philosophy of continuous improving, the R&D Laboratory is constantly working to produce better results, such as the reduced NOx level emissions. The development of new advanced combustion technologies allows to propose solutions in respect of the most stringent environmental regulations and to create the perfect condition to face the new upcoming market requests, such as Ultra Low NOx performance and ErP-ready products.



OUR PRODUCT RANGE

The flexibility of Ecoflam solutions allows the manufacturing of highly customized products covering a range from 17 kW to 34 MW:



MAX GAS

Gas range
17 - 700 kW



BLU

Gas range
245 - 17000 kW



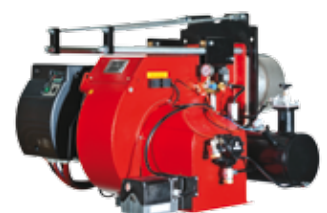
MAX

Light oil range
18 - 546 kW



MAIOR

Light oil range
300 - 17000 kW



MAXFLAM/OILFLAM

Heavy oil range
68 - 17000 kW



OUR PROFESSIONAL TEAM

Ability to design state-of-the-art burners, manage demands of products for specific applications, ability to solve problems in real time are just some of the characteristics of our technicians and engineers.

But not only: Ecoflam has a worldwide network of service technicians able to support the installation, the commissioning and the periodic maintenance activities of the burner.

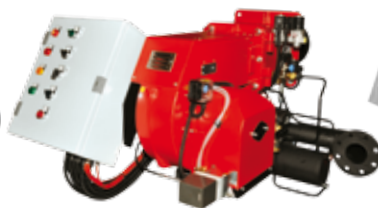
OUR INTERNATIONAL APPROACH

Our products are designed, developed and manufactured in Italy, combining quality, reliability and high performance. All these features are necessary for the end-user satisfaction, which is the first target for Ecoflam. Reaching this outcome throughout its extensive worldwide network of distributors and customers has always been a challenging task for Ecoflam, which was achieved only by developing a close and personalized relationship with each customer, always taking into account the needs and the distinctive characteristics of each individual market.



MULTICALOR

Dual fuel (gas/light oil)
190 - 17000 kW



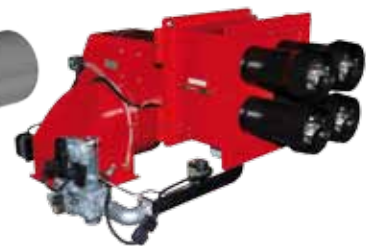
MULTIFLAM

Dual fuel (gas/heavy oil)
414 - 17000 kW



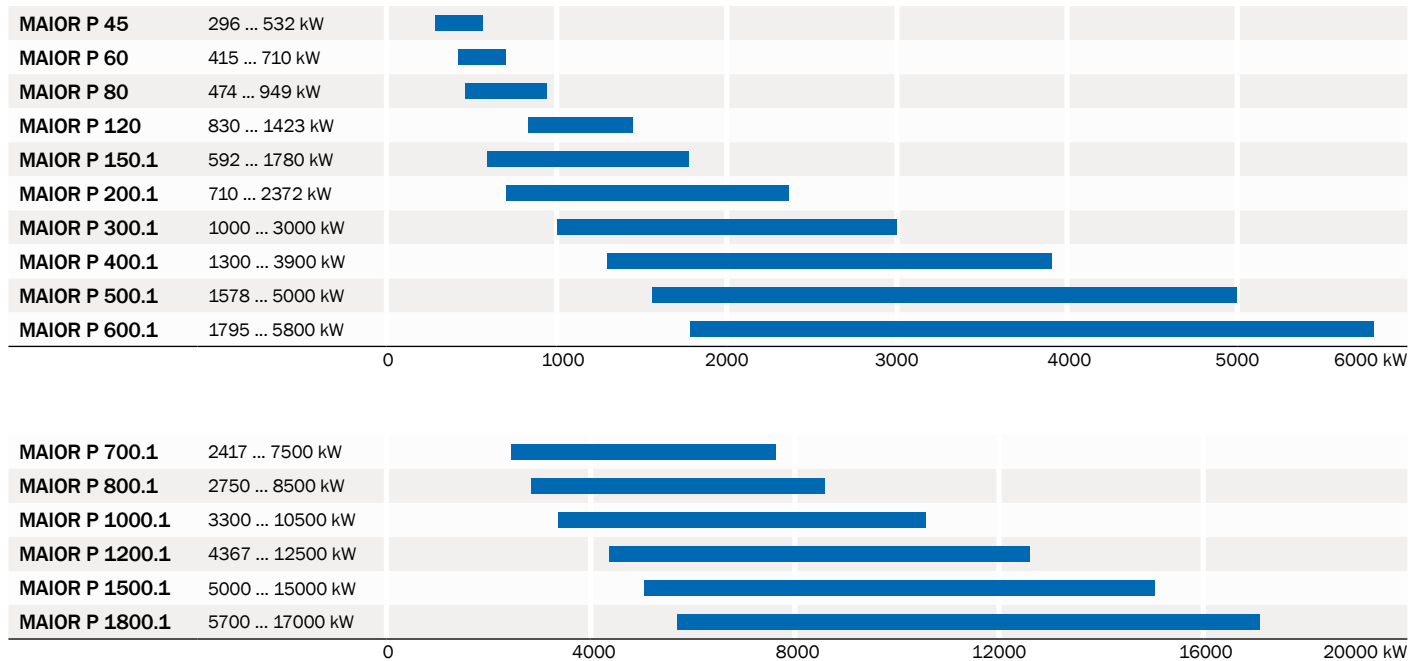
TS RANGE

All fuels
230 - 34000 kW



SPECIAL VERSIONS

RANGE OVERVIEW



MAIN FEATURES

- Two stage version with hydraulic jack or electric servomotor up to MAIOR P 400.1
- Progressive mechanical version with flow return nozzle
- Modulating version with PID system controller with digital set point display and real time value
- Version with fully electronic Burner Management System available for all models
- Version with sliding bars standard for models from MAIOR 700.1 to MAIOR 1200.1
- Adjustable combustion head for easy regulation and matching with different combustion chambers

MAIOR P60 AB HS



MAIOR P120 AB HS



MAIOR P200.1 AB



CONFIGURATIONS

MAIOR range is available in the following operation modes:

MAIOR P ... AB	Two stages	MAIOR P 60 AB ... P 400.1 AB
MAIOR P ... AB HS	Two stages with hydraulic jack	MAIOR P 60 AB HS ... P 400.1 AB HS
MAIOR P ... PR	Two stages progressive/modulating mechanical	MAIOR P 45 PR ... P 1800.1 PR
MAIOR P ... PRE	Two stages progressive/modulating electronic	MAIOR P 45 PRE ... P 1800.1 PRE

Other available configurations:

- Continuous ventilation versions
- Versions with specific pump for light oil with maximum viscosity 5 °E at 20 °C
- OEM and other special versions on request according to feasibility

FUEL

- Light oil (viscosity from 1,6 cSt to 6 cSt at 20 °C)

EMISSIONS

Class	NOx mg/kWh
1	250
2	185
3	120

All models are in compliance with EN 267 European Standard

CONFORM TO

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

MAIOR 800.1 PR

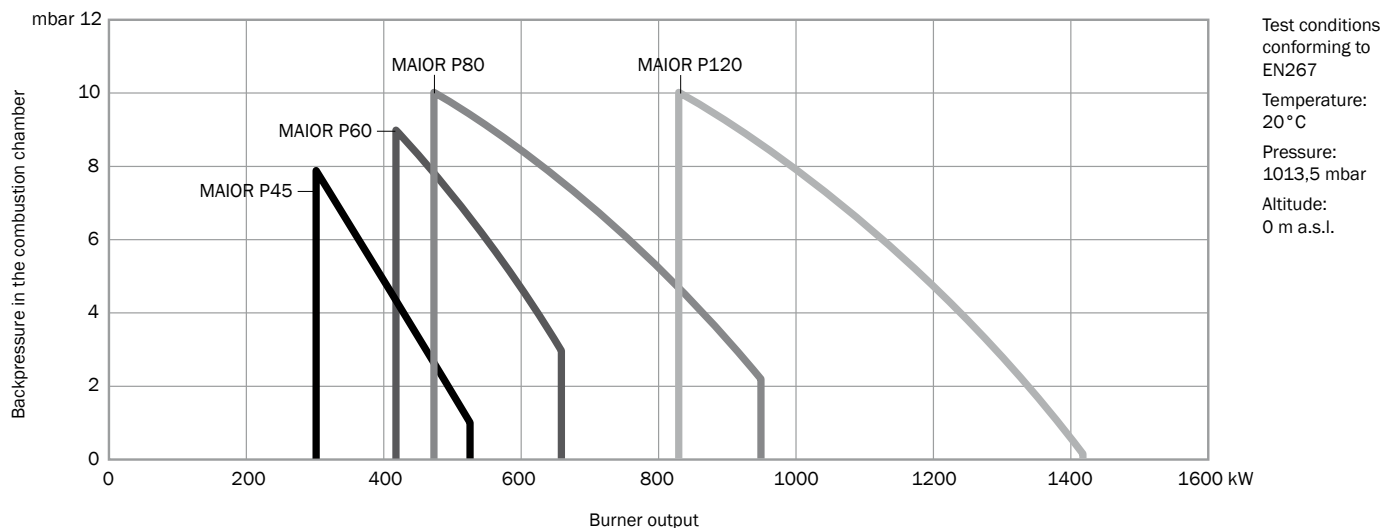


MAIOR P1500.1 PR



- Fuel: light oil (viscosity from 1,6 cSt to 6 cSt at 20 °C)
- Operation: two stages, two stages with hydraulic jack, two stage progressive or modulating with the installation of a power regulator and dedicated probes (see page 102)
- Emission class: class 1 (≤ 250 mg/kWh) according to EN267

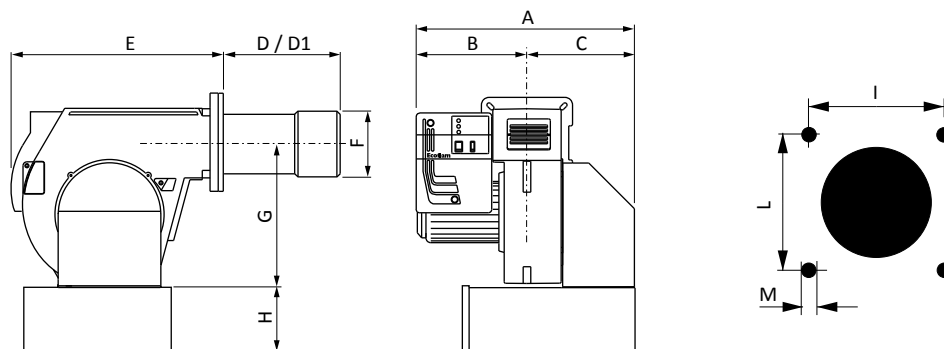
WORKING DIAGRAM



TECHNICAL DATA

	Burner output (kW)	Flow rate (kg/h)	Power supply	Motor (kW)	NOx class	Operation
MAIOR P 45	296 - 532	25 - 45	3/230-400V/50Hz	0,55	Class 1	PR, PRE
MAIOR P 60	415 - 710	35 - 60	3/230-400V/50Hz	1,1	Class 1	AB, AB HS, PR, PRE
MAIOR P 80	474 - 949	40 - 80	3/230-400V/50Hz	1,1	Class 1	AB, AB HS, PR, PRE
MAIOR P 120	830 - 1423	70 - 120	3/230-400V/50Hz	2,2	Class 1	AB, AB HS, PR, PRE

OVERALL DIMENSIONS

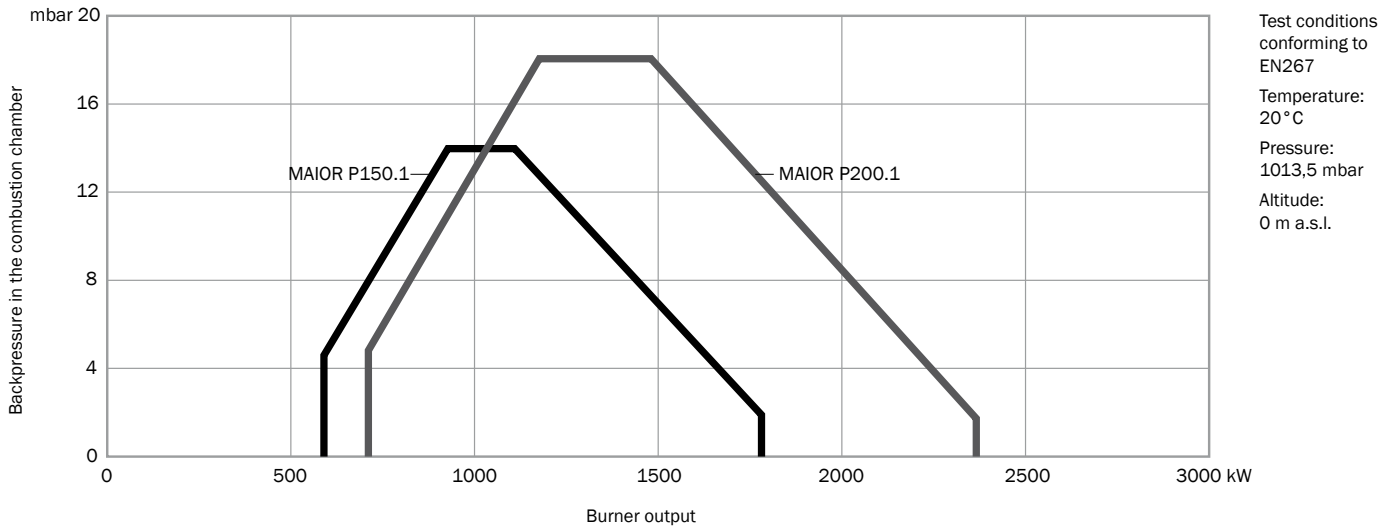


Dimensions in mm
 Head length: D short / D1 long
 *: with silencer (optional)

	A	B	C	D	D1	E	F	G	H*	I	L	M
MAIOR P 45	590	330	260	200	390	555	160	390	225	190	190	M10
MAIOR P 60	590	330	260	235	395	555	180	390	225	190	190	M10
MAIOR P 80	590	330	260	235	395	555	180	390	225	190	190	M10
MAIOR P 120	690	350	340	225	445	555	190	390	225	190	190	M10

- Fuel: light oil (viscosity from 1,6 cSt to 6 cSt at 20 °C)
- Operation: two stages, two stages with hydraulic jack, two stage progressive or modulating with the installation of a power regulator and dedicated probes (see page 102)
- Emission class: class 1 (≤ 250 mg/kWh) according to EN267

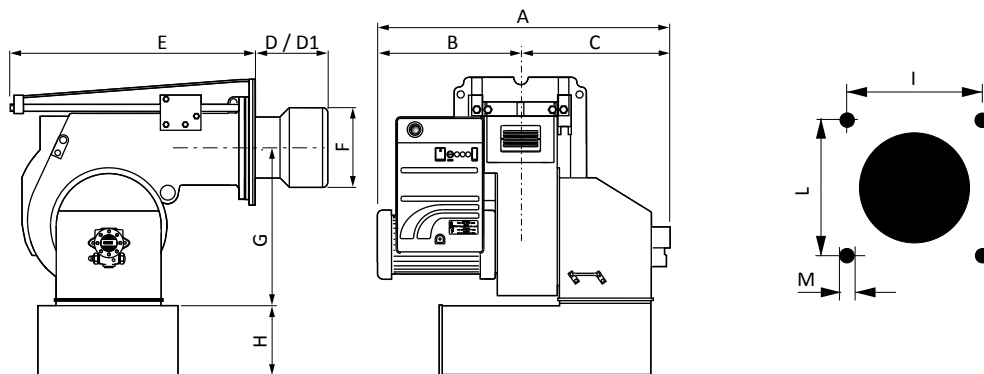
WORKING DIAGRAM



TECHNICAL DATA

	Burner output (kW)	Flow rate (kg/h)	Power supply	Motor (kW)	NOx class	Operation
MAIOR P 150.1	592 - 1780	50 - 150	3/230-400V/50Hz	3	Class 1	AB, AB HS, PR, PRE
MAIOR P 200.1	710 - 2372	60 - 200	3/230-400V/50Hz	4	Class 1	AB, AB HS, PR, PRE

OVERALL DIMENSIONS



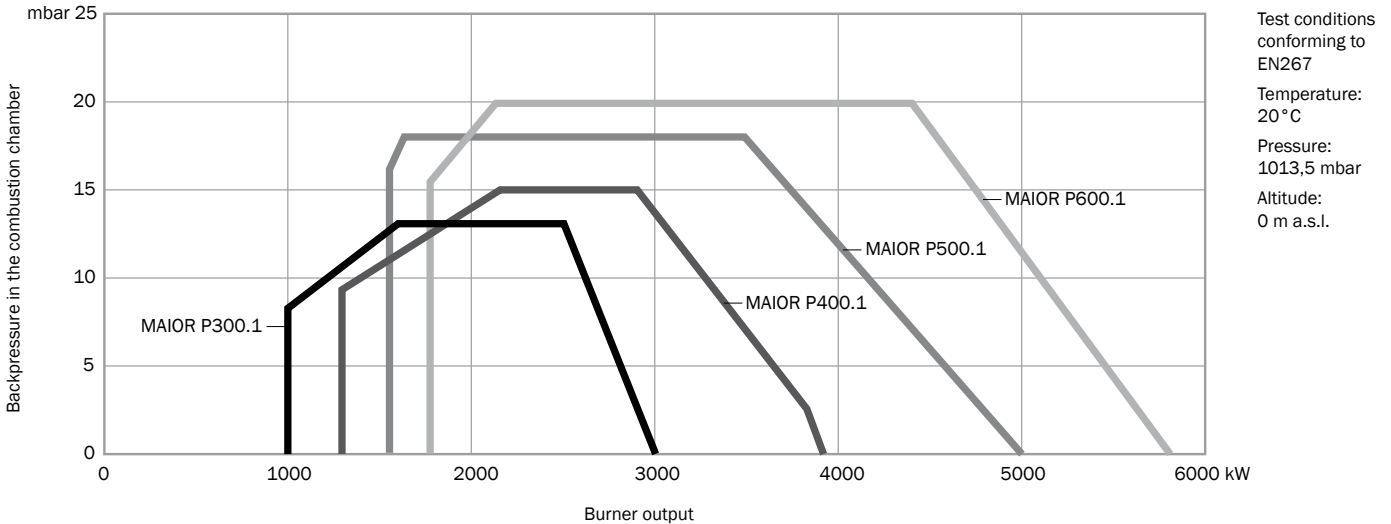
Dimensions in mm
 Head length: D short / D1 long
 *: with silencer (optional)

	A	B	C	D	D1	E	F	G	H*	I	L	M
MAIOR P 150.1	775	385	390	285	485	660	250	398	283	240	240	M14
MAIOR P 200.1	795	405	390	285	485	660	270	398	283	240	240	M14

MAIOR | P 300.1 - P 400.1 - P 500.1 - P 600.1

- Fuel: light oil (viscosity from 1,6 cSt to 6 cSt at 20 °C)
- Operation: two stages, two stages with hydraulic jack, two stage progressive or modulating with the installation of a power regulator and dedicated probes (see page 102)
- Emission class: class 1 (≤250 mg/kWh) according to EN267

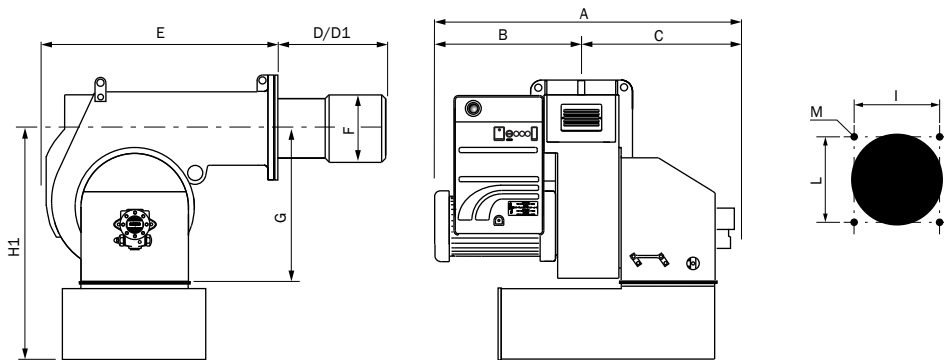
WORKING DIAGRAM



TECHNICAL DATA

	Burner output (kW)	Flow rate (kg/h)	Power supply	Motor (kW)	NOx class	Operation
MAIOR P 300.1	1000 - 3000	85 - 250	3/400V/50Hz	7,5	Class 1	AB, PR, PRE
MAIOR P 400.1	1300 - 3900	110 - 330	3/400V/50Hz	9	Class 1	AB, PR, PRE
MAIOR P 500.1	1578 - 5000	134 - 422	3/400V/50Hz	11	Class 1	PR, PRE
MAIOR P 600.1	1795 - 5800	153 - 490	3/400V/50Hz	15	Class 1	PR, PRE

OVERALL DIMENSIONS

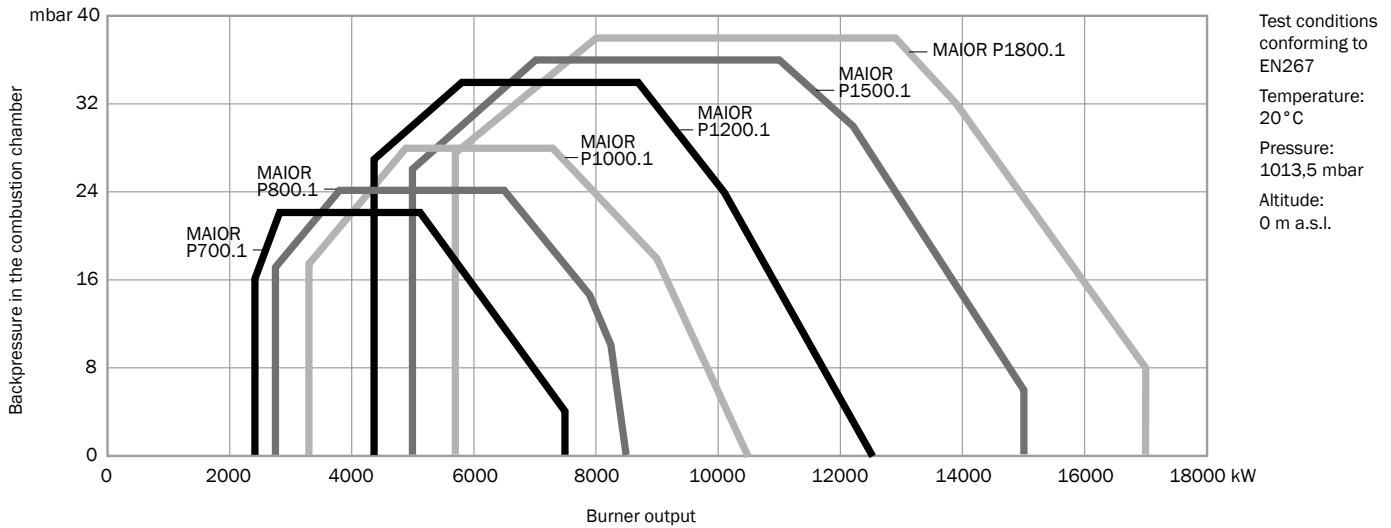


Dimensions in mm
 Head length: D short / D1 long
 *: with silencer (optional)

	A	B	C	D	D1	E	F	G	H1*	I	L	M
MAIOR P 300.1	1055	502	553	330	530	810	290	471	746	315	315	M16
MAIOR P 400.1	1100	547	553	345	545	810	320	471	746	315	315	M16
MAIOR P 500.1	1180	535	645	355	555	970	320	570	965	330	330	M16
MAIOR P 600.1	1190	545	645	355	555	970	320	570	965	330	330	M16

- Fuel: 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: class 1 (≤ 250 mg/kWh) according to EN267

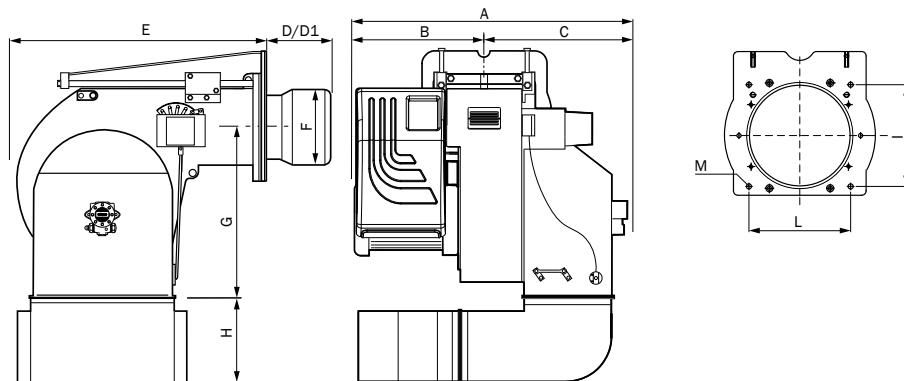
WORKING DIAGRAM



TECHNICAL DATA

	Burner output (kW)	Flow rate (kg/h)	Power supply	Motor (kW)	NOx class	Operation
MAIOR P 700.1	2417 - 7500	205 - 634	3/400V/50Hz	15	Class 1	PR, PRE
MAIOR P 800.1	2750 - 8500	234 - 718	3/400V/50Hz	18,5	Class 1	PR, PRE
MAIOR P 1000.1	3300 - 10500	281 - 887	3/400V/50Hz	22	Class 1	PR, PRE
MAIOR P 1200.1	4367 - 12500	371 - 1056	3/400V/50Hz	37	Class 1	PR, PRE
MAIOR P 1500.1	5000 - 15000	422 - 1268	3/400V/50Hz	45	Class 1	PR, PRE
MAIOR P 1800.1	5700 - 17000	482 - 1437	3/400V/50Hz	55	Class 1	PR, PRE

OVERALL DIMENSIONS



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

	A	B	C	D	D1	E	F	G	H*	I	L	M
MAIOR P 700.1	1340	585	755	457	-	1247	385	800	500	460	460	M20
MAIOR P 800.1	1410	655	755	557	-	1247	465	800	500	460	460	M20
MAIOR P 1000.1	1440	685	755	557	-	1247	465	800	500	460	460	M20
MAIOR P 1200.1	1550	795	755	557	-	1247	465	800	500	460	460	M20
MAIOR P 1500.1	1670	800	870	590	-	1750	550	1100	500	620	620	M20
MAIOR P 1800.1	1670	800	870	590	-	1750	550	1100	500	620	620	M20

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ECOFLAM Bruciatori S.p.A. reserve the right to make any adjustments, without prior notice, which is considered necessary or useful to its products, without affecting their main features.