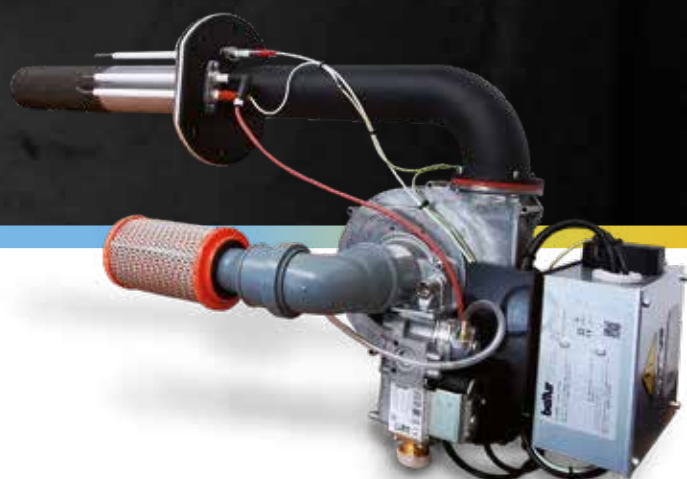




PREMIXED BURNERS

BPM
SERIES



baltur
Energy for People

ООО Промэлектроника
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АНКАС



Premix Burners

More than 30-year
experience in premix
combustion technology.



Ideal for OEM applications

- ✓ Heat generators
- ✓ Heat generators
- ✓ Ovens for food applications
- ✓ Spray booths
- ✓ Heat exchangers
- ✓ Special custom applications



ENERGY
SAVINGS



COMBUSTION
OPTIMISATION

BALTUR PREMIXING KNOW HOW

The new **BPM** series burner range makes use of the combustion and premixing technology.

Combustion air and fuel gas are mixed in the right proportions before being introduced into the burner.

The main characteristics of these new compact burners are the energy savings deriving from the high modulating ratios, together with an extremely silent operation.

Thanks to the special metal fibre combustion head, it is possible to obtain low nitric oxide (NO_x) and CO polluting emissions.

Baltur is proud to offer its Customers the benefits of its know-how on premixing technology gained in thirty years of experience, i.e. since, as early as 1986, a first premixed burner was an integral part of the historic wall-mounted Balturella boiler.

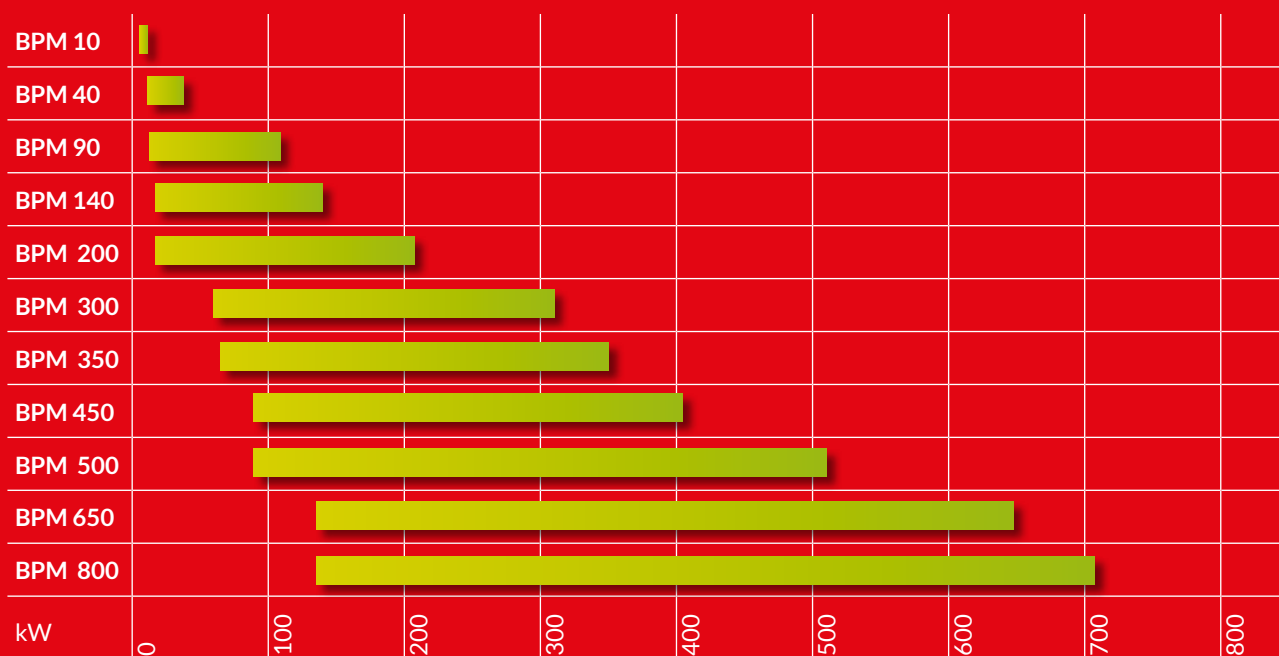
Customised solutions:

we support the customer with the definition and optimisation of the system.





The range



Burner	BPM 300
Fuel	Methane Gas
System power	300 kW
Type of application	Painting system for car bodywork
Location	Spray booths, Turin



Burners	no. 2 BPM 500
Fuel	Methane Gas
System power	1.2 MW
Type of application	Heating and domestic hot water production
Location	Litocartotecnica, Mantova



Burner	BPM 500
Fuel	Methane Gas
System power	520 kW
Type of application	Heating and domestic hot water production
Location	Educational institution, Naples



**RESPECT FOR THE
ENVIRONMENT**



**MAXIMUM
FLEXIBILITY**

GAS BURNERS WITH PREMIXED FLAME AND LOW EMISSIONS

The premixed burner is made up of a combustion head consisting of a special wire cloth on which a very compact flame (microflame) develops radially, thus allowing the application of BPM burners on furnaces with contained dimensions and reducing the boiler overall dimensions.

The premixed burner is supplied by a brushless modulating blower and an electro-pneumatic gas valve.

This technical solution makes it possible to obtain high modulating ratios (up to 1/6 depending on the model) which mean a better operating efficiency, since the capability to modulate the heat gain based on real current needs reduces cooling caused by switching on and off to the minimum.

BENEFITS

- Flexible and adaptable to any type of application in various industrial sectors: heat generators, steam generators, ovens for food applications, spray booths, heat exchangers, special custom applications.
- Ideal for OEM applications: burners are designed in partnership with the customer in various forms and dimensions according to the exchanger and application.
- Compact flame with radial development and incandescence burner: reduction of contact between the flame and furnace walls.
- Low nitric oxide (NOx) and CO polluting emissions.
- Modulating operation.
- Extremely silent operation.
- Compact design.
- Wide range available: from 10 kW to 720 kW.
- Natural gas and LPG operation* (*on request).
- High modulation ratios (up to 1/6).
- Electrical consumption reduced by up to 40%.
- Easy adjustment and maintenance.



TECHNICAL DATA

Code	Model	Flow rate Thermal (kW)	Emission class		Electric power supply	Fuel	Type of control	Operation
			Methane	LPG				
18000103	BPM 10	2-10	3	3	1N AC 230V 50 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18000409	BPM 40	22-43	3	3	1N AC 230V 50 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18000708	BPM 90	20-103	3	3	1N AC 230V 50 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18000907	BPM 140	30-142	3	3	1N AC 230V 50 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18001204	BPM 200	30-210	3	3	1N AC 230V 50/60 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18001302	BPM 300	63-310	3	3	1N AC 230V 50/60 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18001402	BPM 350	70-350	3	3	1N AC 230V 50/60 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18001501	BPM 450	90-410	3	3	1N AC 230V 50/60 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18001603	BPM 500	90-520	2	3	1N AC 230V 50/60 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18001701	BPM 650	142-650	3	3	1N AC 230V 50/60 Hz	Natural gas/LPG	Siemens LME 71	Modulating
18001801	BPM 800	142-720	3	3	1N AC 230V 50/60 Hz	Natural gas/LPG	Siemens LME 71	Modulating

* For the correct burner-generator combination in particular applications, contact our sales office.

(1) NOx and Co emissions using G20 fuel and according to European standard EN 676 - (1)

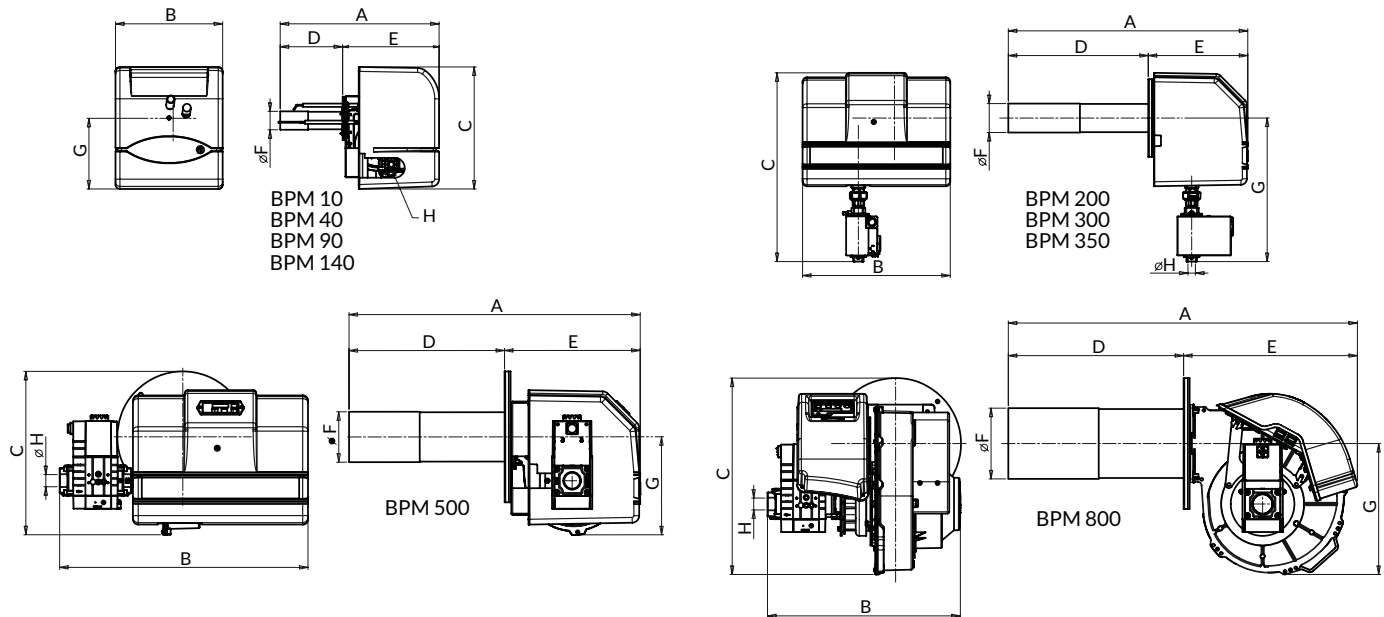
(2) LPG version on request -

HEAD AND COMBUSTION CHAMBER DIMENSIONS

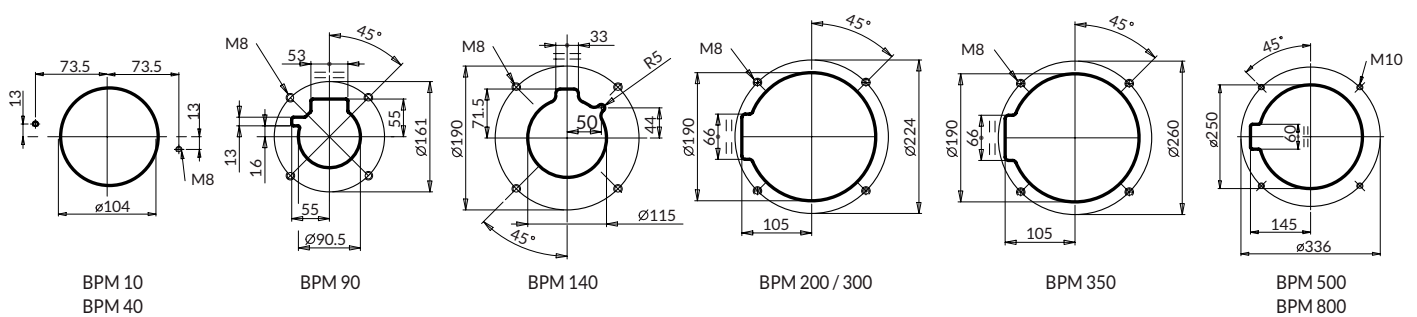
Code	Model	Combustion head dimensions			Minimum generator combustion chamber dimensions	
		Total length (mm)	Diameter (mm)	Torch length (mm)	Diameter (mm)	Length (mm)
18000103	BPM 10	175	53	77	120-150	225-300
18000409	BPM 40	250	35	150	190-230	350-450
18000708	BPM 90	295	66	200	250-290	325-400
18000907	BPM 140	311	84	205	450-490	500-700
18001204	BPM 200	420	97	240	450-500	700-950
18001302	BPM 300	500	97	360	500-590	700-1200
18001402	BPM 350	595	143	440	600-680	800-1300
18001501	BPM 450	680	143	440	620-670	900-1400
18001603	BPM 500	680	143	440	650-700	900-1400
18001701	BPM 650	550	200	350	670-750	1000-1500
18001801	BPM 800	615	200	450	670-500	1000-1500



DIMENSIONS



BOILER FLANGE



Model	A	B	C	D	AND	F Ø	G	H
BPM 10	450	305	345	175	275	53	193.5	3/4" M
BPM 40	525	305	345	250	275	35	193.5	3/4" M
BPM 90	573	305	345	295	278	66	191	3/4" M
BPM 140	595	305	345	311	284	84	232	3/4" F
BPM 200	760	495	660	420	340	97	500	1" F
BPM 300	840	495	660	500	340	97	500	1" F
BPM 350	935	495	660	595	340	143	500	1" F
BPM 450	1070	700	463	680	390	143	277	1 1/2" F
BPM 500	1070	700	463	680	390	143	277	1 1/2" F
BPM 650	1025	560	555	550	475	200	370	1 1/2" F
BPM 800	1110	560	555	615	495	200	370	1 1/2" F