MB LMT 700

Monoblock High Ratio Regulation
THERMAL STEEL FLAME TUBE
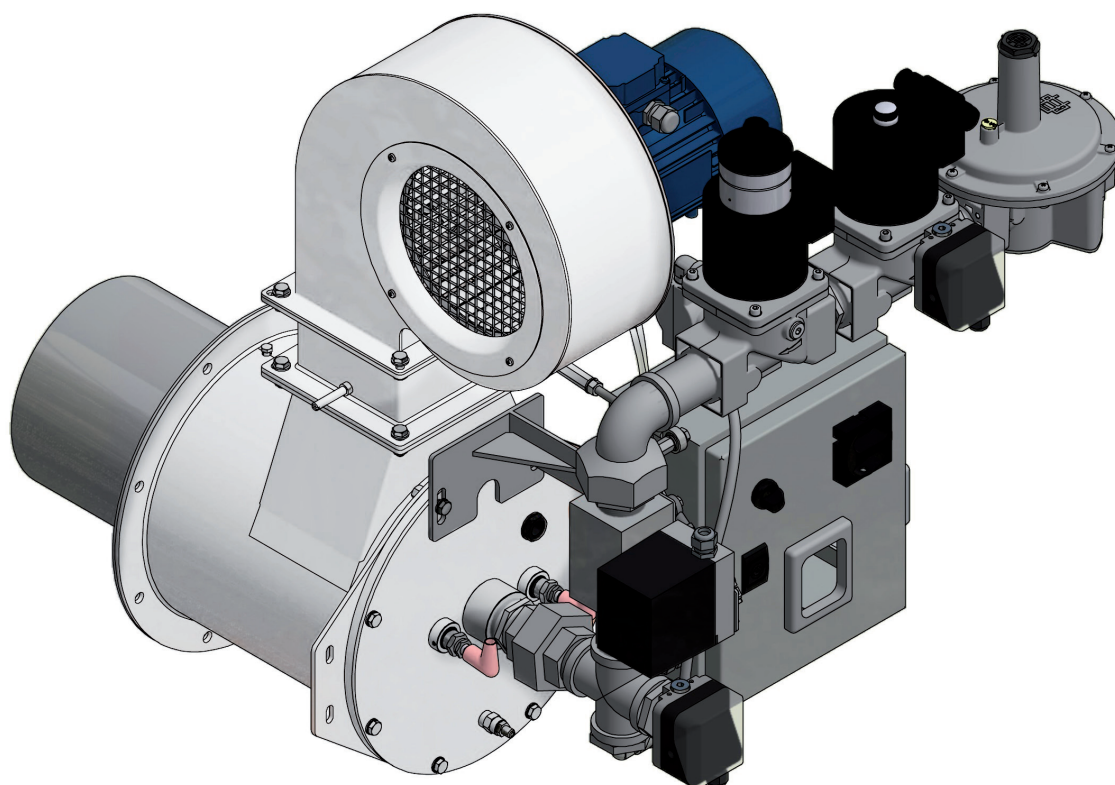
MB LMT 700

Maximum output [kW]		700
Minmum output (air/gas regulation) [kW]		23
Fuel pressure at maximum capacity (upstream of the stabilizer) [mbar]	Natural gas (8250 kcal/Nm³)	50
	LPG (22500 kcal/Nm³)	32
Operating conditions in the combustion chamber at maximum capacity [mbar]	Maximum back pressure	0
	Minimum depression	-8
Flame length at maximum capacity [mm] (measured at the end of the burner body)	Natural gas (8250 kcal/Nm³)	900
	LPG (22500 kcal/Nm³)	1050
Flame detection	Ionization flame detection electrode (UV cell on request)	
Fuel	Natural gas (LPG and other gaseous fuel on request)	

All information is based on laboratory tests in a neutral pressure chamber. Different conditions and chamber sizes can affect the data.
All information is based on a standard combustor design. Modifications to the combustor will alter performance and pressures.
All data are based on gross calorific values.
All information is based on tests conducted on generally acceptable air and gas piping systems.
Data reported in this technical sheet are subject to change without notice.
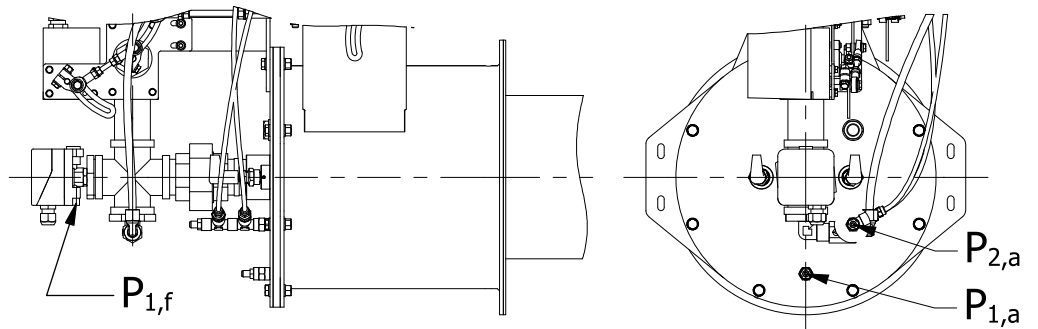Performance data and dimensions are guidelines only and are not binding.
ELCO reserves the right to modify the construction and / or configuration of its products at any time

CHARACTERISTICS OF THE BURNER
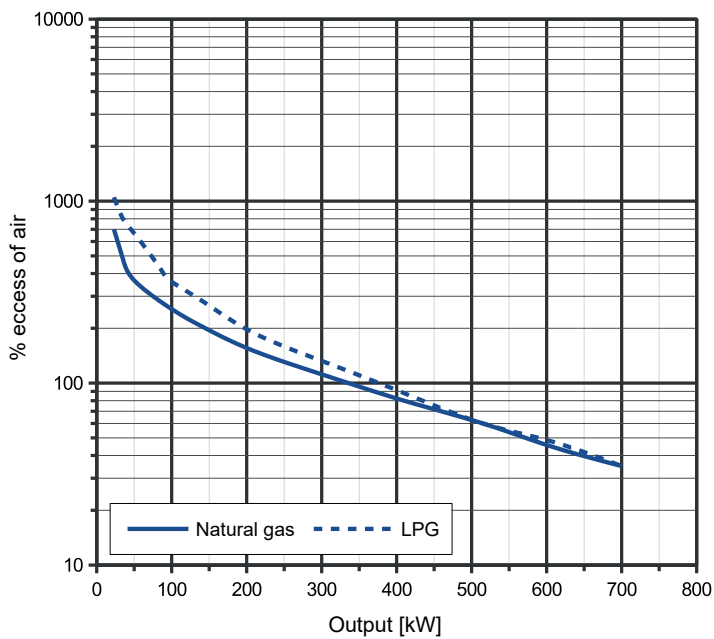
Fuel 1: CH4
Fuel 1 diaphragm: Ø**

Fuel 2: LPG
Fuel 2 diaphragm: Ø**

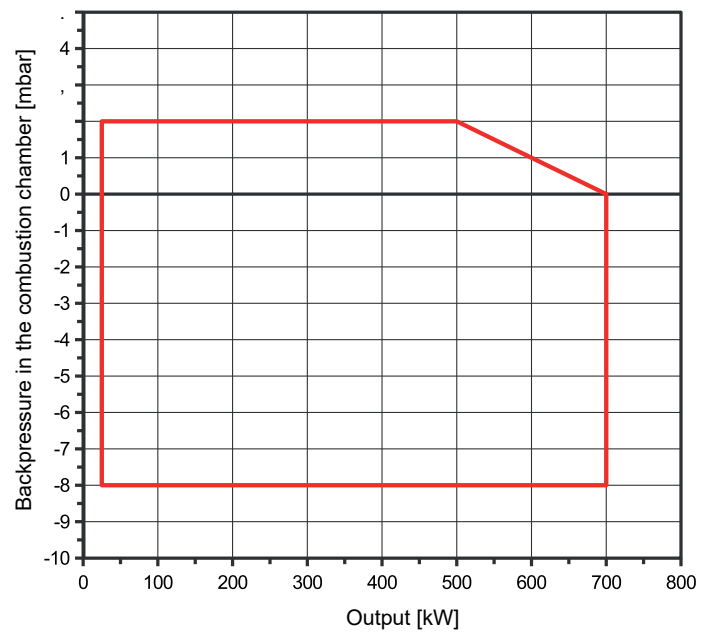Comburent: Air
Comburent diaphragm: Sp.28

$P_{1,f}$

$P_{2,a}$

$P_{1,a}$

OPERATING RANGE

TYPICAL OPERATING RANGE

% eccess of air vs Output [kW]

- Natural gas
- LPG

WORKING FIELD
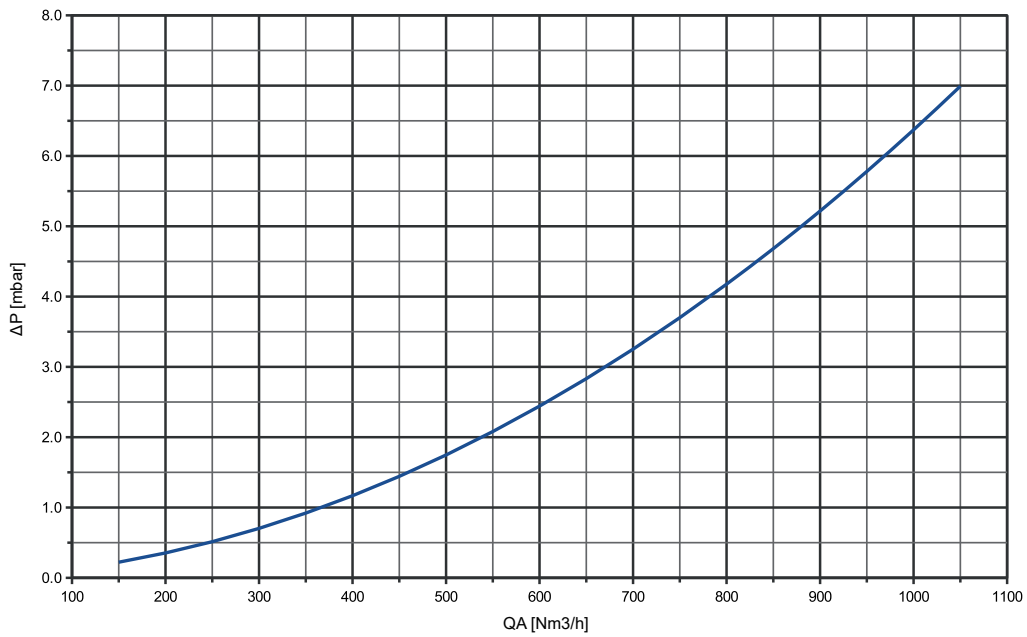
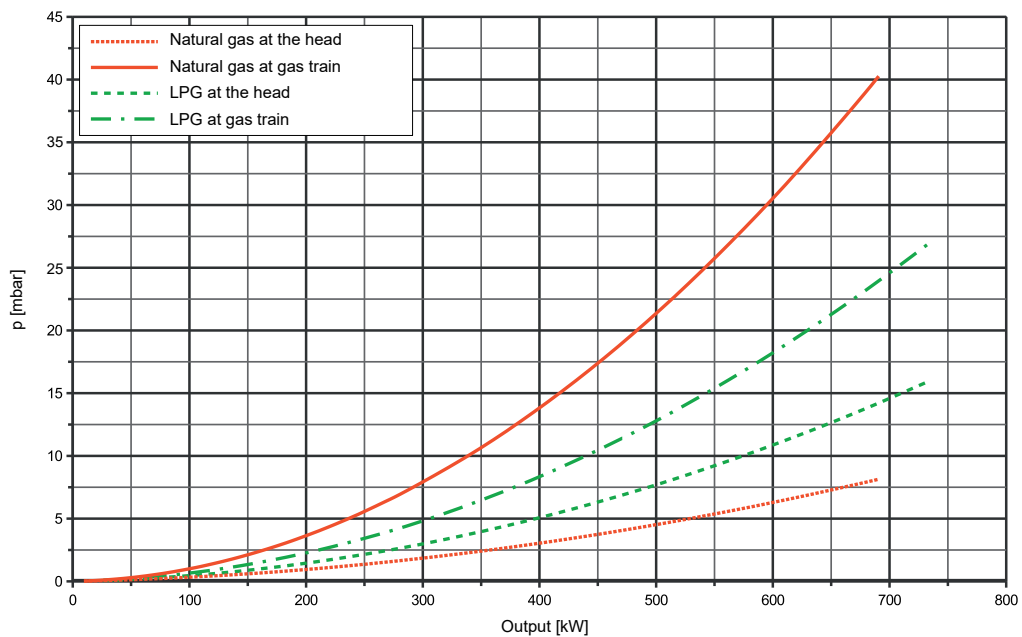Backpressure in the combustion chamber [mbar] vs Output [kW]

LEGENDA

Q_A Air flow
$P_{1.F}$ Fuel pressure
$P_{1.A}$ Air pressure upstream the diaphragm
$P_{2.A}$ Air pressure downstream the diaphragm
ΔP_A Differential pressure between ports 1 and 2

FLOW RATE CURVES

FUEL SUPPLY PRESSURE

Legend:
- Natural gas at the head
- Natural gas at gas train
- LPG at the head
- LPG at gas train

DIMENSIONS [mm]

GAS INLET
G 1 1/2

635 635

304

914

31

208

518

853

594

642

310

215 635

Ø370

Ø220

215

499

1134

FIXING FLANGE DETAIL

Ø11.5 N.8 HOLES

45°

22.5°

Ø240

Ø340

Ø370