

MVRT 520**METALLIC VOLUMETRIC FOR RADIANT TUBE****MVRT 520**

Maximum output [kW]	520	
Minimum Power (air/gas modulating) [kW]	52	
Fuel pressure at maximum power [mbar] (measured at tapping P _{1.F} – pag. 2)	Natural gas (8250 kcal/Nm ³) LPG (22500 kcal/Nm ³)	65 60
Air inlet pressure at maximum power [mbar] (measured at tapping P _{1.A} – pag. 2)	Natural gas (8250 kcal/Nm ³) LPG (22500 kcal/Nm ³)	18
Flame length at maximum power [mm] (measured from the end of the burner body)	Natural gas (8250 kcal/Nm ³) LPG (22500 kcal/Nm ³)	900
Flame speed at maximum power [m/s] (with 20% excess of air)	Medium speed	
Flame detection	Ionization probe or UV cell	
Fuel	Natural gas, LPG	

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 the information is based on tests undertaken using air and gas piping of generally acceptable design. Any deviation will affect the accuracy of orifice readings.

The information reported on this document may be subject to change without notice.

The data listed on this paper are purely for informational purposes and not binding.

ECOFLAM reserves the right to change the construction and/or configuration of its products in every moment without being obligated to alter previous supplies.

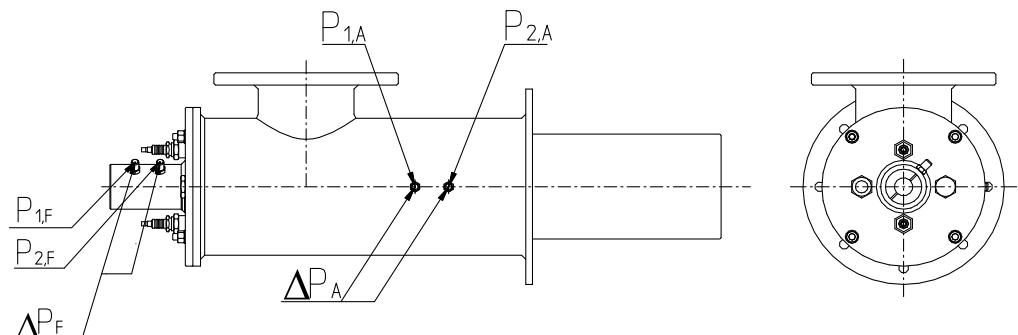
CHARACTERISTICS OF THE BURNER

Fuel 1: natural gas
 Fuel 1 orifice: Ø20

Fuel 2: LPG
 Fuel 2 orifice: Ø14

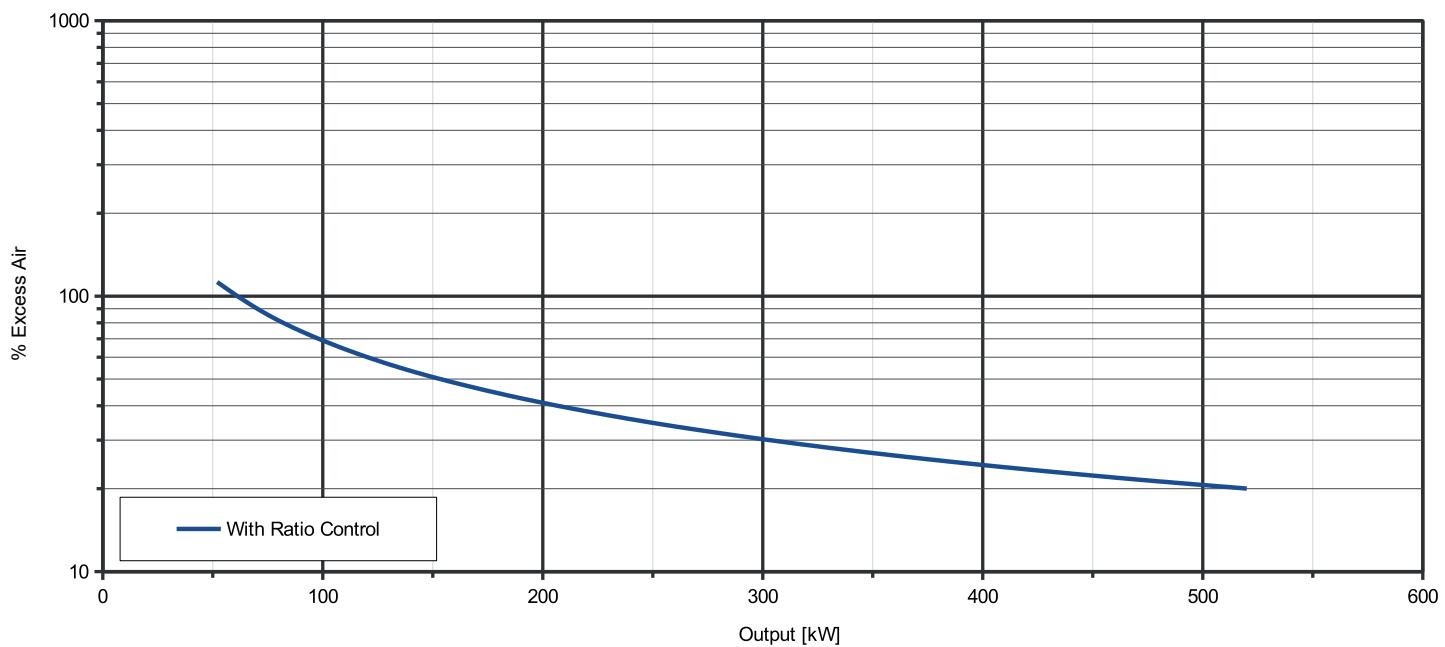
Comburent: air
 Comburent orifice: Ø120

Stainless steel cone exit: Ø106



OPERATING RANGE

TYPICAL OPERATING RANGE



LEGENDA

Q_F Fuel flow
Q_A Air flow

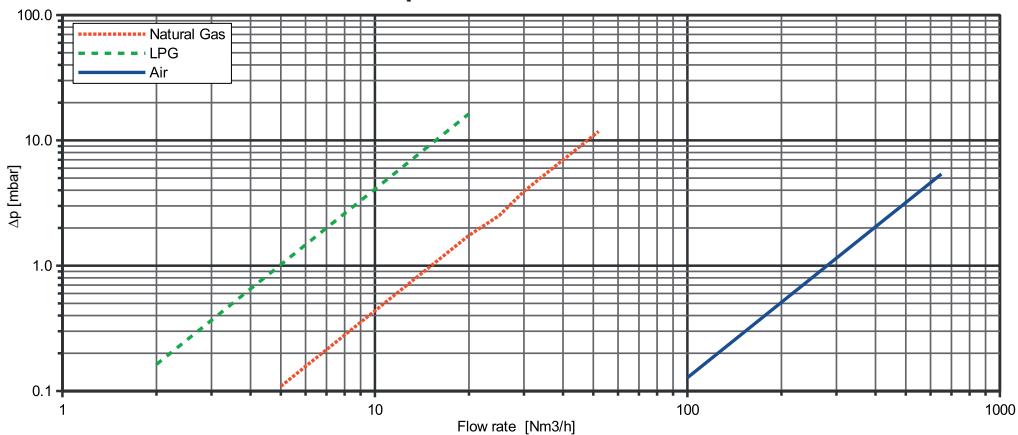
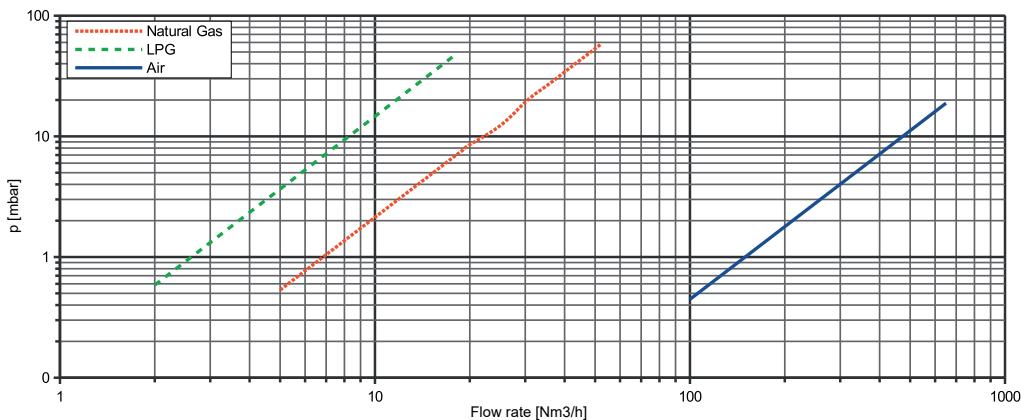
P_{1,F} Fuel pressure before the diaphragm
P_{1,A} Air pressure before the diaphragm
P_{2,F} Fuel pressure after the diaphragm

P_{2,A} Air pressure after the diaphragm
ΔP_F Differential fuel pressure between tapping 1 and 2
ΔP_A Differential air pressure between tapping 1 and 2

FLOW RATE CURVES

Q _F [Nm ³ /h]	FUEL			
	P _{1,F} [mbar]		ΔP _F [mbar]	
	Natural gas	LPG	Natural gas	LPG
2		0.59		0.16
3		1.32		0.37
5	0.53	3.66	0.11	0.65
6	0.77	5.27	0.16	1.02
7	1.05	7.18	0.21	1.47
9	1.73	11.86	0.35	2.00
9	1.73	11.86	0.35	3.30
10	2.13	14.64	0.44	4.08
12	3.07	21.09	0.63	5.87
16	5.46	37.49	1.12	7.99
18	6.91	47.45	1.41	10.44
19	7.70	52.86	1.57	13.21
19	7.70	52.86	1.57	14.72
20	8.54	58.58	1.74	16.31
25	12.29		2.51	
30	19.21		3.93	
35	26.14		5.34	
40	34.15		6.98	
42	37.65		7.69	
44	41.32		8.44	
46	45.16		9.23	
48	49.17		10.05	
50	53.36		10.90	
52	57.71		11.79	

Q _A [Nm ³ /h]	AIR	
	P _{1,A} [mbar]	ΔP _A [mbar]
100	0.45	0.13
120	0.64	0.18
140	0.87	0.25
180	1.45	0.41
200	1.78	0.51
240	2.57	0.73
260	3.02	0.86
280	3.50	1.00
300	4.01	1.15
340	5.16	1.47
360	5.78	1.65
380	6.44	1.84
400	7.14	2.04
420	7.87	2.25
440	8.64	2.47
460	9.44	2.70
480	10.28	2.94
500	11.15	3.19
520	12.06	3.45
540	13.01	3.72
560	13.99	4.00
580	15.01	4.29
600	16.06	4.59
650	18.85	5.39

Δp Vs. Flow Rate Curve

Inlet Static Pressure


DIMENSIONS [mm]

