

MVRT 140

METALLIC VOLUMETRIC FOR RADIANT TUBE

MVRT 140			
Maximum output [kW]		140	
Minimum Power (air/gas modulating) [kW]		14	
Fuel pressure at maximum power [mbar] (measured at tapping $P_{1.F}$ – pag. 2)	Natural gas (8250 kcal/Nm³)	55	
	LPG (22500 kcal/Nm³)	130	
Air inlet pressure at maximum power [mbar] (measured at tapping P _{1.A} – pag. 2)	Natural gas (8250 kcal/Nm³)		
	LPG (22500 kcal/Nm³)	14	
Flame length at maximum power [mm] (measured from the end of the burner body)	Natural gas (8250 kcal/Nm³)	700	
	LPG (22500 kcal/Nm³)		
Flame speed at maximum power [m/s] (with 20% excess of air)	Medium speed	70	
Flame detection	Ionization probe or UV cell		
Fuel	Natural Gas. LPG or other gaseous fuel upon 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 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

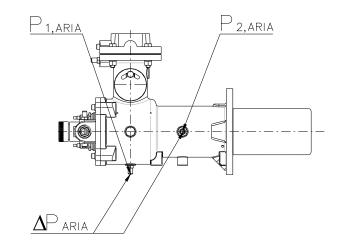
Fuel 1: natural gas Fuel 1 orifice: Ø13

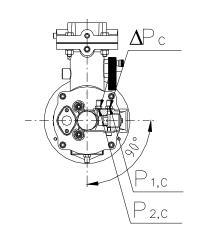
Fuel 2: LPG Fuel 2 orifice: Ø10

Comburent: air

Comburent orifice: Ø78

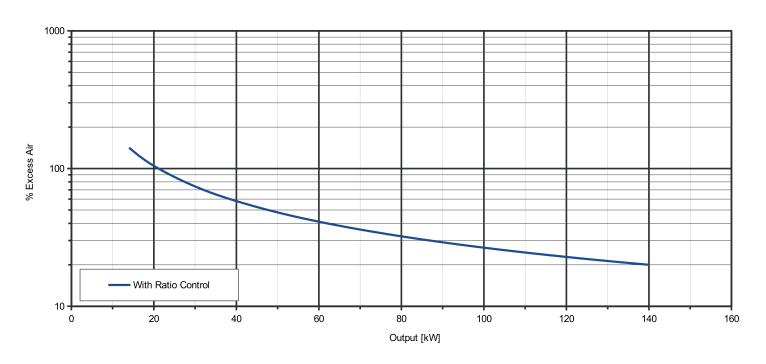
Stainless steel cone exit: Ø72





OPERATING RANGE

TYPICAL OPERATING RANGE



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LEGENDA Q_F Fuel flow

 ${f Q}_{{f A}}$ Air flow

 $P_{1.F}$ Fuel pressure before the diaphragm

 $\boldsymbol{P_{1.A}}$ Air pressure before the diaphragm **P**_{2.F} Fuel pressure after the diaphragm

 $P_{\scriptscriptstyle 2.A}$ Air pressure after the diaphragm

 ΔP_F Differential fuel pressure between tapping 1 and 2

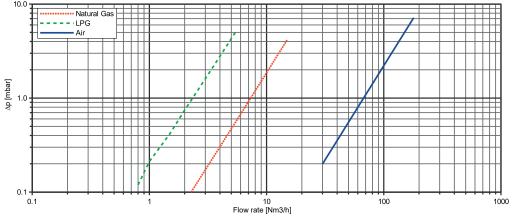
 ΔP_{A} Differential air pressure between tapping 1 and 2

FLOW RATE CURVES

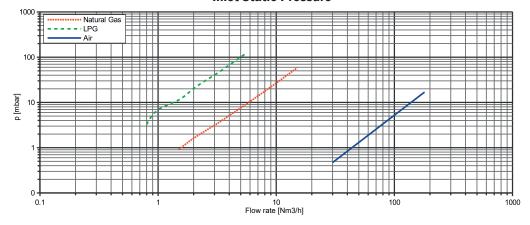
FUEL					
Q _F [Nm ³ /h]	P _{1.F} [mbar]		ΔP_F [mbar]		
	Natural gas	LPG	Natural gas	LPG	
0.8	0.00	3.25	0.00	0.12	
1	0.00	6.86	0.00	0.21	
1.5	0.91	11.44	0.04	0.42	
2	1.62	20.34	0.08	0.75	
3	3.13	40.44	0.17	1.60	
4	5.12	67.16	0.30	2.78	
5	7.57	100.50	0.47	4.29	
5.5	8.98	119.65	0.57	5.16	
6	10.50		0.67		
7	13.90		0.92		
8	17.77		1.19		
9	22.11		1.51		
9.5	24.45		1.68		
10	26.92		1.86		
10.5	29.50		2.05		
11	32.20		2.25		
11.5	35.01		2.45		
12	37.95		2.67		
12.5	41.00		2.90		
13	44.17		3.13		
13.5	47.46		3.38		
14	50.86		3.63		
14.5	54.39		3.89		
15	58.03		4.17		

AIR				
Q _A [Nm³/h]	P _{1.A}	ΔΡΑ		
	[mbar]	[mbar]		
30	0.47	0.20		
40	0.84	0.35		
50	1.31	0.55		
60	1.88	0.80		
70	2.56	1.08		
80	3.35	1.41		
90	4.23	1.79		
95	4.72	1.99		
100	5.23	2.21		
105	5.76	2.44		
110	6.32	2.67		
115	6.91	2.92		
120	7.53	3.18		
125	8.17	3.45		
130	8.83	3.73		
135	9.53	4.03		
140	10.24	4.33		
145	10.99	4.65		
150	11.76	4.97		
155	12.56	5.31		
160	13.38	5.66		
165	14.23	6.02		
170	15.11	6.39		
180	16.93	7.16		





Inlet Static Pressure



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DIMENSIONS [mm]

