

HTC 1160 S/0 PC.190

CONCRETE CASTING BURNER CONE

HTC 1160 S/0 PC - MV Ø190

Maximum output [kW]		1160	
Fuel pressure at maximum capacity [mbar] (measured at P _{1.F} - pag. 2)	Natural gas (8250 kcal/Nm³)	33	
	LPG (22500 kcal/Nm³)		
Air pressure at maximum capacity [mbar] (measured at P _{1,A} - pag. 2)	Natural gas (8250 kcal/Nm³)	45	
	LPG (22500 kcal/Nm³)		
Flores longeth at a vision on a site formal	Natural gas (8250 kcal/Nm³)	1300	
Flame length at maximum capacity [mm] (measured from the end of the burner body)	LPG (22500 kcal/Nm³)		
Flame speed at maximum capacity [m/s]	Medium speed	65	
(with 20% excess of air)	Medium speed		
Flame detection	Ionization flame detection electrode 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 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

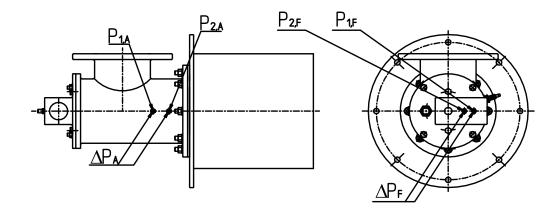
Fuel 1 diaphragm: Ø30

Fuel 2: LPG

Fuel 2 diaphragm: Ø25

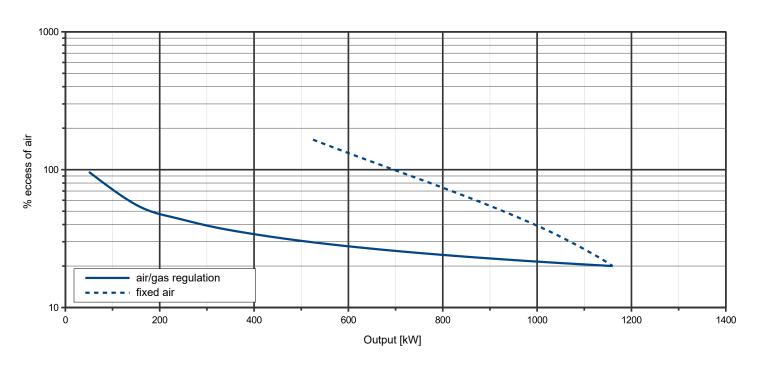
Comburent: Air Comburent diap.: Ø130

Cone: Ø190



OPERATING RANGE

TYPICAL OPERATING RANGE





 $\begin{array}{ll} \textbf{LEGENDA} \\ \textbf{Q}_{\text{F}} & \text{Fuel flow} \end{array}$

 \mathbf{Q}_{A} Air flow

 ${f P}_{1.F}$ Fuel pressure upstream the diaphragm

P_{1.A} Air pressure upstream the diaphragm

P_{2.F} Fuel pressure downstream the diaphragm

 $P_{2.A}$ Air pressure downstream the diaphragm

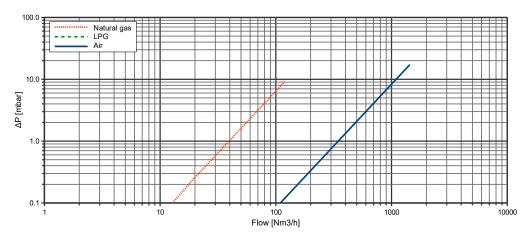
 ΔP_F Differential fuel pressure between ports 1 and 2

 ΔP_A Differential air pressure between ports 1 and 2

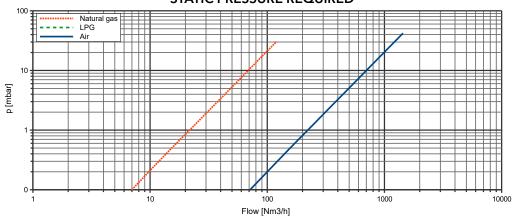
FLOW RATE CURVES

	FUEL					
Q _F [Nm³/h] Natura	P _{1.F} [mbar]		ΔP _F [mbar]			
	Natural gas	LPG	Natural gas	LPG		
5	0.05		0.02			
10	0.21		0.06			
15	0.48		0.14			
20	0.85		0.26			
25	1.32		0.4			
30	1.91		0.58			
35	2.59		0.79			
40	3.39		1.03			
45	4.29		1.3			
50	5.29		1.6			
55	6.4		1.94			
60	7.62		2.31			
65	8.94		2.71			
70	10.37		3.14			
75	11.91		3.61			
80	13.55		4.11			
85	15.29		4.64			
90	17.15		5.2			
95	19.1		5.79			
100	21.17		6.42			
105	23.34		7.07			
110	25.61		7.76			
115	27.99		8.48			
120	30.48		9.24			

AIR					
O IN 2/11	P _{1.A}	ΔP_A			
Q _A [Nm³/h]	[mbar]	[mbar]			
60	0.07	0.03			
120	0.29	0.12			
180	0.66	0.27			
240	1.17	0.48			
300	1.83	0.75			
360	2.64	1.08			
420	3.59	1.47			
480	4.68	1.92			
540	5.93	2.43			
600	7.32	3			
660	8.86	3.63			
720	10.54	4.32			
780	12.37	5.07			
840	14.35	5.88			
900	16.47	6.75			
960	18.74	7.68			
1020	21.15	8.67			
1080	23.72	9.72			
1140	26.42	10.82			
1200	29.28	11.99			
1260	32.28	13.22			
1320	35.43	14.51			
1380	38.72	15.86			
1440	42.16	17.27			

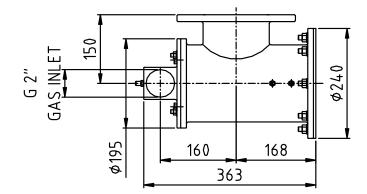


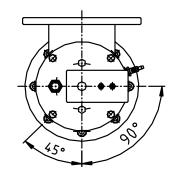


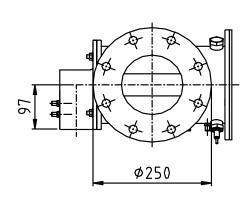


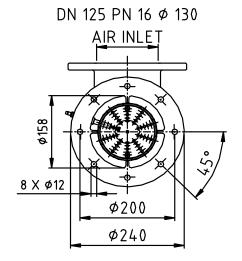


DIMENSIONS [mm]









Concrete casting cone:

