Ecoflam _

HTS 220 S/90.65 SILICON CARBIDE BURNER CONE

HTS 220 S/90 - HV Ø65			
Maximum output [kW]		220	
Fuel pressure at maximum capacity [mbar] (measured at $P_{1.F}$ – pag. 2)	Natural gas (8250 kcal/Nm ³)	69	
	LPG (22500 kcal/Nm ³)		
[
Air pressure at maximum capacity [mbar] (measured at P _{1.A} – pag. 2)	Natural gas (8250 kcal/Nm ³)	105	
	LPG (22500 kcal/Nm ³)	105	
Г			
Flame length at maximum capacity [mm] (measured from the end of the burner body)	Natural gas (8250 kcal/Nm ³)	700	
	LPG (22500 kcal/Nm ³)		
Flame speed at maximum capacity [m/s] (with 20% excess of air)	High speed	110	
Flame detection	Ionization flame detection electrode or UV cell		
[
Fuel	Natural gas (LPG and other 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.

ECOFLAM reserves the right to modify the construction and / or configuration of its products at any time



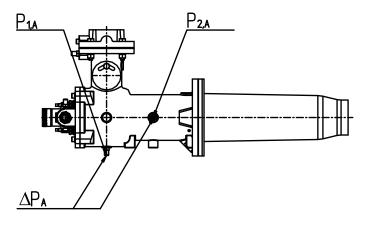
CHARACTERISTICS OF THE BURNER

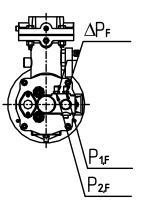
Fuel 1: CH4 Fuel 1 diaphragm: Ø13

Fuel 2: LPG Fuel 2 diaphragm: Ø10

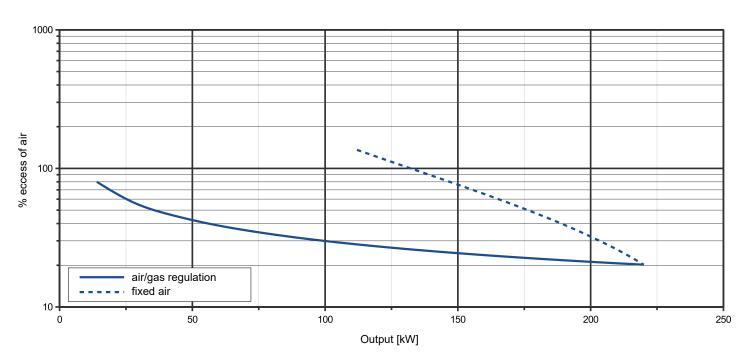
Comburent: Air Comburent diap.: Ø78

Cone: Ø65





OPERATING RANGE



TYPICAL OPERATING RANGE

Ecoflam

LEGENDA

Q_F Fuel flow**Q**_A Air flow

 $\mathbf{P}_{1,F}$ Fuel pressure upstream the diaphragm

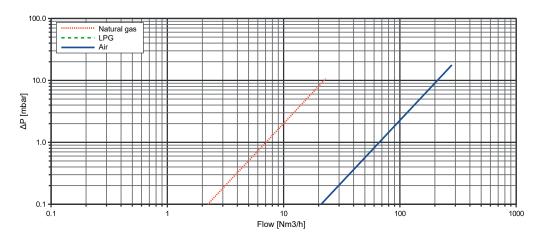
P_{1.A} Air pressure upstream the diaphragm

 $\boldsymbol{P}_{2,F}$ $\,$ Fuel pressure downstream the diaphragm

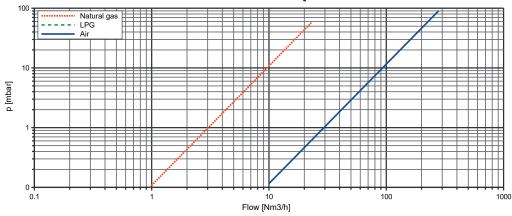
FLOW RATE CURVES

	FUEL					
Q _F [Nm³/h]	P _{1.F} [mbar]		ΔP_{F} [mbar]			
	Natural gas	LPG	Natural gas	LPG		
0.5	0.03		0.01			
1	0.11		0.02			
2	0.43		0.08			
3	0.97		0.18			
4	1.73		0.32			
5	2.71		0.50			
6	3.90		0.73			
7	5.31		0.99			
8	6.93		1.29			
9	8.77		1.63			
10	10.83		2.01			
11	13.10		2.44			
12	15.59		2.90			
13	18.30		3.40			
14	21.23		3.95			
15	24.37		4.53			
16	27.72		5.16			
17	31.30		5.82			
18	35.09		6.53			
19	39.09		7.27			
20	43.32		8.06			
21	47.76		8.88			
22	52.41		9.75			
23	57.29		10.66			

	AIR	
Q _A [Nm ³ /h]	P _{1.A}	ΔΡΑ
	[mbar]	[mbar]
10	0.12	0.02
20	0.46	0.09
30	1.04	0.20
40	1.85	0.36
50	2.89	0.57
60	4.17	0.81
70	5.67	1.11
80	7.41	1.45
100	11.58	2.26
120	16.67	3.26
140	22.69	4.43
150	26.05	5.09
160	29.64	5.79
180	37.51	7.33
190	41.80	8.16
200	46.31	9.05
210	51.06	9.97
220	56.04	10.95
230	61.25	11.96
240	66.69	13.03
250	72.37	14.14
260	78.27	15.29
270	84.41	16.49
280	90.78	17.73







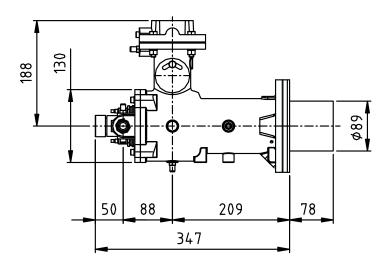
 $\mathbf{P}_{2.\text{A}}$ $% \mathbf{P}_{2.\text{A}}$ Air pressure downstream the diaphragm

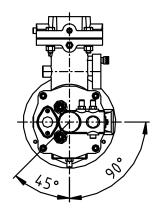
 $\Delta P_{\scriptscriptstyle F}$ $\,$ Differential fuel pressure between ports 1 and 2 $\,$

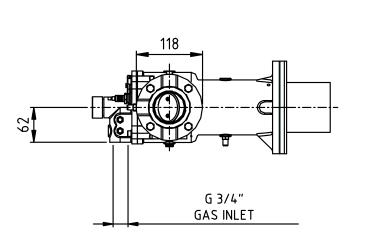
 ΔP_{A} $\,$ Differential air pressure between ports 1 and 2 $\,$

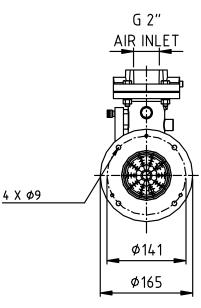
Ecoflam

DIMENSIONS [mm]









Silicon carbide burner cone:

