HTI 190 S/40
STEELE BURNER CONE

HTI 190 S/40 - HV Ø185

Maximum output [kW]	1750
Minimum output (air/gas modulating) [kW]	85
Minimum output (fixed air) [kW]	700

Fuel pressure at maximum capacity [mbar] (measured at $P_{1.F}$ – pag. 2)	Natural gas (8250 kcal/Nm^3)	30
	LPG (22500 kcal/Nm^3)	45

Air pressure at maximum capacity [mbar] (measured at $P_{1.A}$ – pag. 2)	Natural gas (8250 kcal/Nm^3)	40
	LPG (22500 kcal/Nm^3)	

Flame length at maximum capacity [mm] (measured from the end of the burner body)	Natural gas (8250 kcal/Nm^3)	1900
	LPG (22500 kcal/Nm^3)	

Flame speed at maximum capacity [m/s] (with 20% excess of air)	High speed	100

Flame detection	Ionization probe 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.
ELCO reserves the right to modify the construction and / or configuration of its products at any time
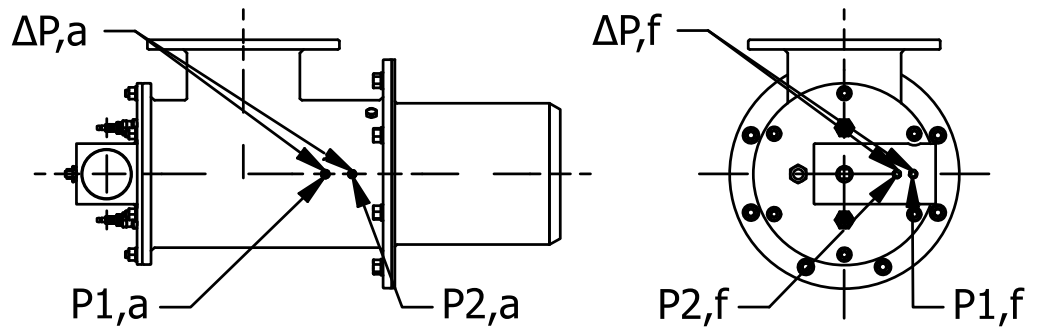
CHARACTERISTICS OF THE BURNER

Fuel 1: NG
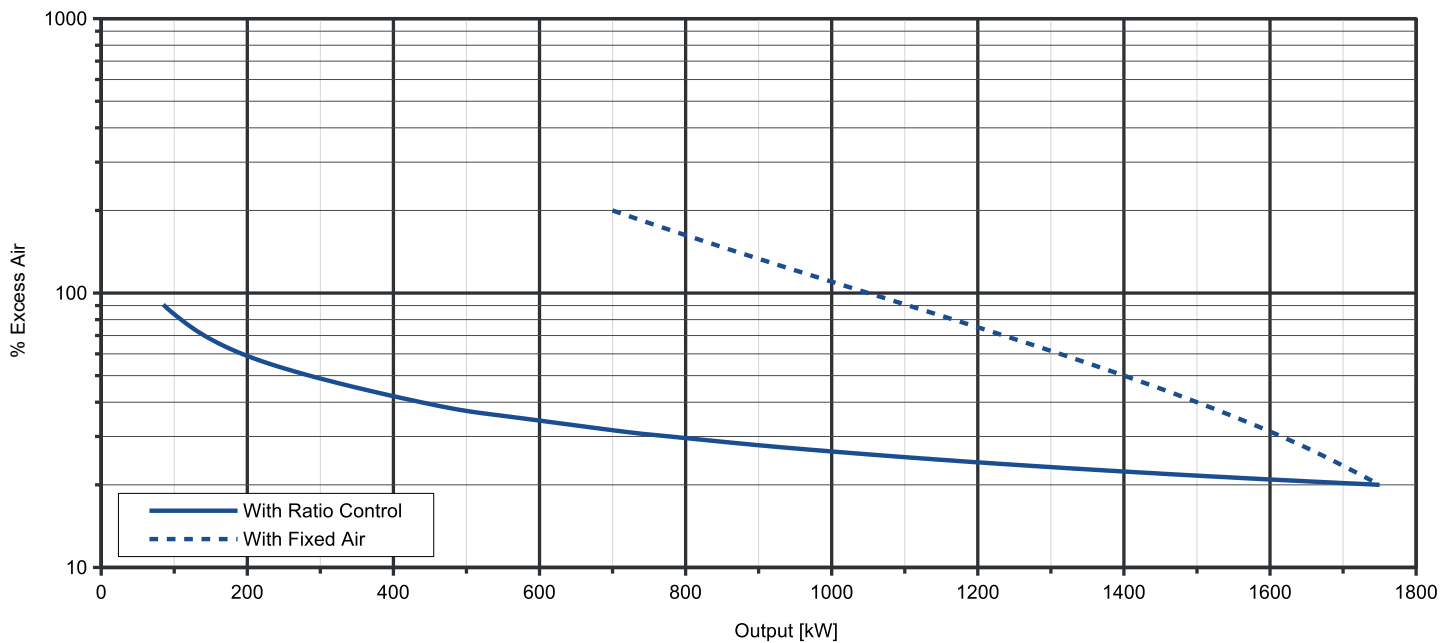Fuel 1 diaphragm: Ø42

Fuel 2: LPG
Fuel 2 diaphragm: Ø26

Comburent: Air
Comburent orifice: Ø170

Stainless steel cone exit: Ø185

OPERATING RANGE
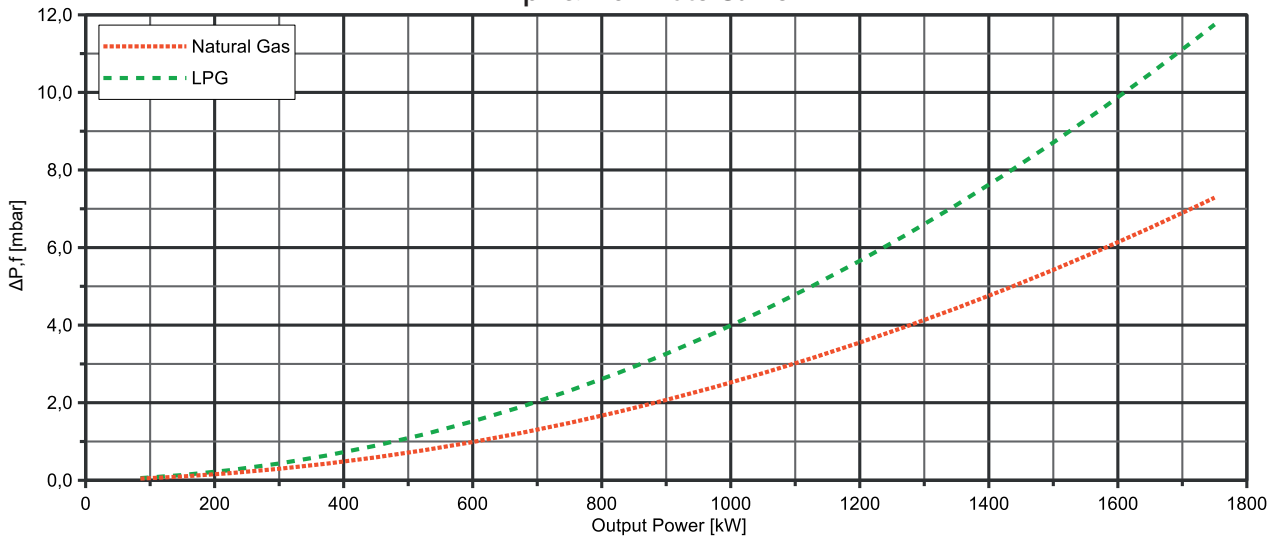
TYPICAL OPERATING RANGE

LEGENDA

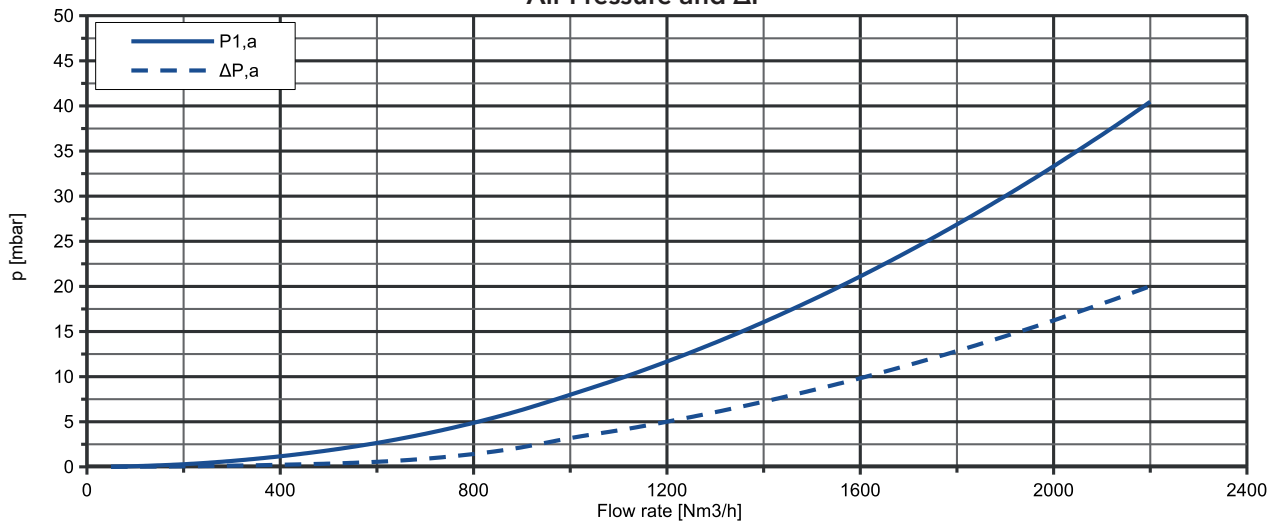|					
Q_F	Fuel flow	$P_{1.F}$	Fuel pressure upstream the diaphragm	$P_{2.A}$	Air pressure downstream the diaphragm
Q_A	Air flow	$P_{1.A}$	Air pressure upstream the diaphragm	ΔP_F	Differential fuel pressure between ports 1 and 2
		$P_{2.F}$	Fuel pressure downstream the diaphragm	ΔP_A	Differential air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

FLOW RATE CURVES

Δp Vs. Flow Rate Curve

Gas Inlet Static Pressure

Air Pressure and ΔP

![elco]

DIMENSIONS [mm]

2" ½
INGRESSO GAS
GAS INLET

200

203   225   245

490

DN 150 PN 16
INGRESSO ARIA
AIR INLET

n210

135

22.5°

45°

8 x n22

n240

n285

8 x n13

45°

n300

n340