

Datasheet - Metric

ITAS INTENSITYFLAME BURNERS

MODEL IF0045-GAS

Parameter	Value
Maximum Capacity input [kWlhv]	4500
(Air pre-heating limits the maximum capacity)	
Minimum Capacity input [kWlhv]	300
Fuels	Natural gas, propane, butane, mixed gases
(Contact ITAS for dual gas or oil options)	Contact Fives ITAS S.p.A. for using special gases
Pressure drop gas gun [mbar]	Natural gas: 54,4
(maximum capacity)	Propane: 21,9
Nominal combustion Air Inlet [Nm ³ /h]	5400
Air inlet pressure [mbar]	22,1
(At nominal input, 20°C)	
Lambda [-]	1,2 to 1,7
Combustion air temperature [°C]	Standard <20
	On request <300
Fuel guns	Single - Gun for single gas
	Double - Gun for dual gas
Combustor options	Alloy (AISI 310)
	Refractory (83% alumina air bond)
Maximum chamber temperature [°C]	Alloy combustor: 600 (@ Lambda 1,4)
	Refractory combustor: 900
Flame dimensions [mm]	Length 2400
(Measured from outlet of combustor)	Diameter 900
Ignition	Raw gas pilot, natural gas or propane
Pilot	Capacity [kW]: 45
	Gas pressure NG [mbar]: 30
Flome Monitoring	Gas pressure Propane [mbar]: 12,5 UV scanner or Infrared scanner
Flame Monitoring	
Emissions	On request
Mounting position	Horizontal Vertical up
	Vertical up Vertical down (use a continuous fan operation)
Weight [kg]	Burner with alloy combustor: 200
Weight [kg]	Burner with refractory: 400
	Duffiel with refractory. 400

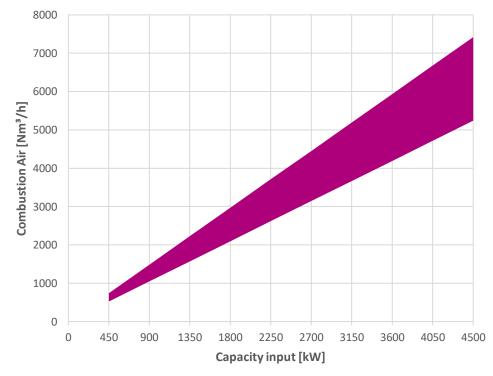
Notes:

- All data are based on net calorific values = lhv
- All information is based on common practice for gas and air pipe design. If support is needed please contact Fives ITAS S.p.A.
- All inputs are based on laboratory testing at neutral chamber conditions
- Natural gas: lhv = 9,97 kWh/Nm³; d=0,56
- Propane: lhv 26,3 kWh/Nm³; d=1,58

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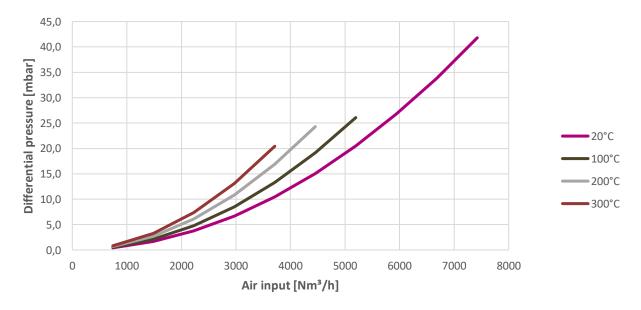
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1. OPERATION CURVE (AMBIENT COMBUSTION AIR)

2. COMBUSTION AIR PRESSURE DROP



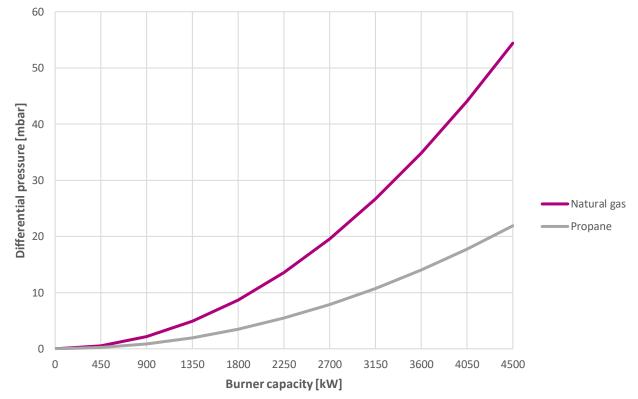
Pressure drop should be taken between the chamber and windbox pressure tap (tap B)

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3. GAS GUN PRESSURE DROP



Pressure drop should be taken as differential between the chamber and gas gun pressure tap A.

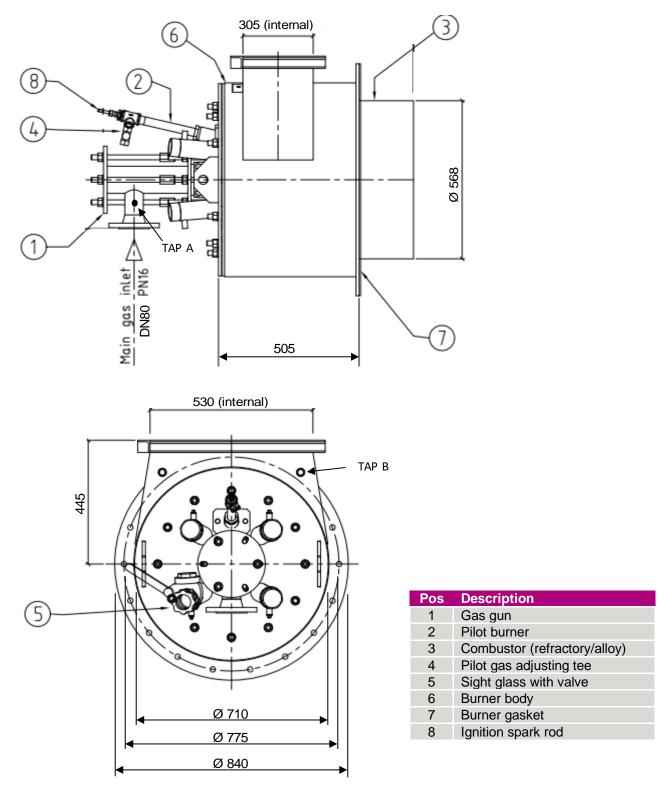
Note: Pressure drop curves should be used as a guide for setting up burner. It is recommended to use fuel flow measurements for determining actual fuel flows.

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4. **DIMENSIONS**



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