

ITAS DUCTFLAME-H/T/C BURNERS

Parameter	Value
Nominal input [kWlhv]	Straight line section: 120 T-shaped section: 360 (equivalent to 3x Straight) Cross section: 480 (equivalent to 4x Straight)
Fuels	Natural gas, propane, butane, mixed gases <i>Contact Fives ITAS S.p.A. for using special gases</i>
Gas turndown	20:1
Pressure drop gas [mbar] (Nominal capacity) <i>(Measured between A and C - See page 2)</i>	Natural gas - Italian: 8,7 Natural gas – Russian: 7,4 Propane: 3,2
Combustion air quantity [Nm ³ /h]	Straight line section: 170 T-shaped section: 510 Cross section: 680
Air turndown	1:1 (fixed combustion air)
Pressure drop combustion air [mbar] <i>(measured between B and C – see page 2)</i>	Natural gas: 2 Propane: 2,6
Combustion air temperature [°C]	Standard <100 On request <200
Process air inlet temperature [°C]	< 400
Process air outlet temperature [°C]	< 800
Process air pressure drop [mbar]	Between 0,5 and 2
Ignition	Direct ignition for burners < 501 kW Integral spark ignited pilot > 500 kW
Pilot input [kW]	~7,3
Flame Monitoring	UV scanner or Flame rod
Flame length at nominal input [mm]	~750 mm
Emission estimates [mg/Nm ³ @ 17% O ₂] <i>Contact fives ITAS S.p.A. for emission estimates on your application</i>	Possible: CO 50, NO _x 100
Weight [kg] <i>Weights depending on burner configuration</i>	Straight line section: 6 T-shaped section: 16 Cross section: 21

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 - Italian: lhv = 9,5 kWh/Nm³; d=0,6
- Natural gas - Russian: lhv = 9,97 kWh/Nm³; d=0,56
- Propane: lhv 26,3 kWh/Nm³; d=1,58

GAS PRESSURE DROP

Differential pressure drop should be taken between the process chamber (C) and pressure tap A.

