

TDSF16M-20200609

ITAS SPEEDFLAME MODEL SF-16-MV TECHNICAL DATASHEET (METRIC)

Parameter	Value
Maximum Capacity input [kWlhv]	900
Minimum input – on ratio controlled [kWlhv]	45
Minimum input – gas controlled (fixed air) [kWlhv]	90
Fuels	Natural gas, propane (Contact Fives ITAS for using other gases or mixed gases)
Required fuel pressure at gas inlet [mbar] (at maximum capacity, see page 4, Tap A)	Natural gas-Italian: 27 Natural gas – Russian: 23 Propane: on request
Maximum combustion air flow [Nm3/h]	1150
Required air pressure at maximum flow [mbar] (see page 4, Tap C)	24
Combustion air temperature [°C]	< 150
Flame dimensions [mm] (Measured from outlet of combustor)	Length 1400 Diameter 200
Combustor options	Silicon Carbide Refractory
Flame velocity at combustor outlet [m/s]	Up to 70
Maximum chamber temperature [°C]	SiC combustor: 1200 Refractory combustor: 1200
Ignition	Via bypass in gas line
Ignition capacity [kW]	10
Flame Monitoring	UV scanner or Infrared scanner
Emissions	On request
Installation position	Horizontal Vertical up Vertical down (use a continuous fan operation)
Weight [kg]	Burner with SiC: 53 Burner with refractory: ~70

Notes:

- All data are based on net calorific values = lhv
- All information is based on common practice for gas and air pipe design. Contact Fives ITAS S.p.A. if you need further support.
- 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

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1. OPERATION CURVE

2. COMBUSTION AIR PRESSURE DROP



Pressure drop shall be taken between pressure Tap B and C

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3. GAS PRESSURE DROP



Pressure drop shall be taken as differential between pressure Tap A and B

Note: Pressure drop curves shall 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**







2" Gas inlet

L

R203 mm SiC outer diameterS3/4" UV port

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