ITAS SPEEDFLAME MODEL SF-24-MV

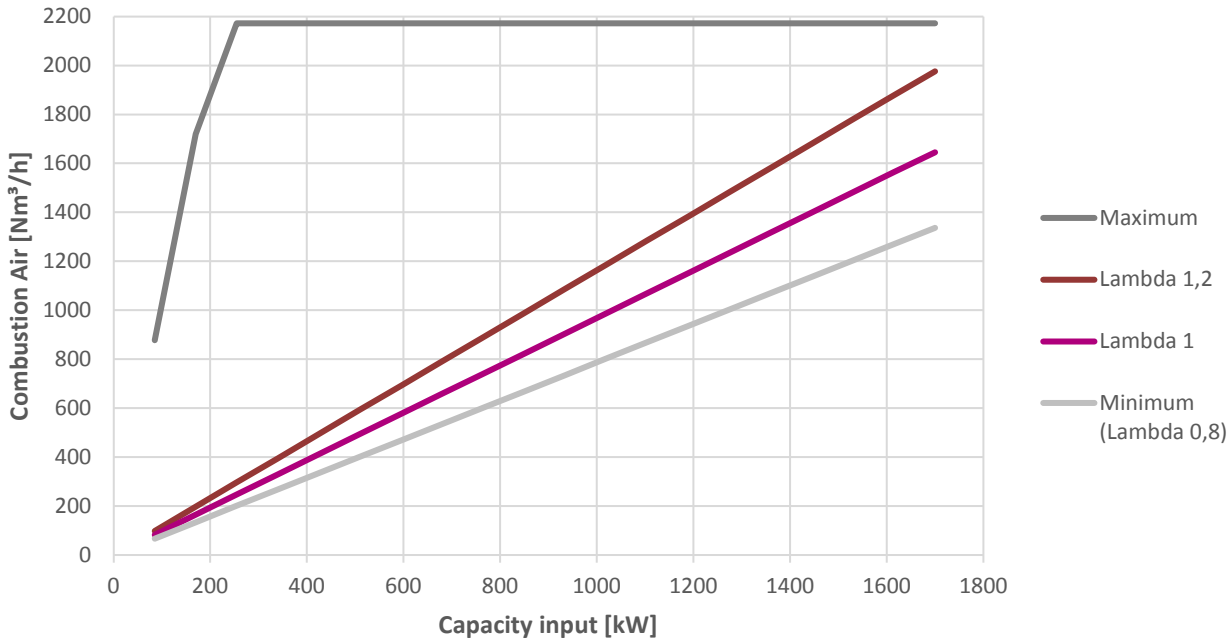
TECHNICAL DATASHEET (METRIC)

Parameter	Value
Maximum Capacity input [kWlhv]	1700
Minimum input – on ratio controlled [kWlhv]	85
Minimum input – gas controlled (fixed air) [kWlhv]	170
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: 65 Natural gas – Russian: 55 Propane: on request
Maximum combustion air flow [Nm³/h]	2175
Required air pressure at maximum flow [mbar] *(see page 4, Tap C)*	117
Combustion air temperature [°C]	< 150
Flame dimensions [mm] *(Measured from outlet of combustor)*	Length 2200 Diameter 250
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:

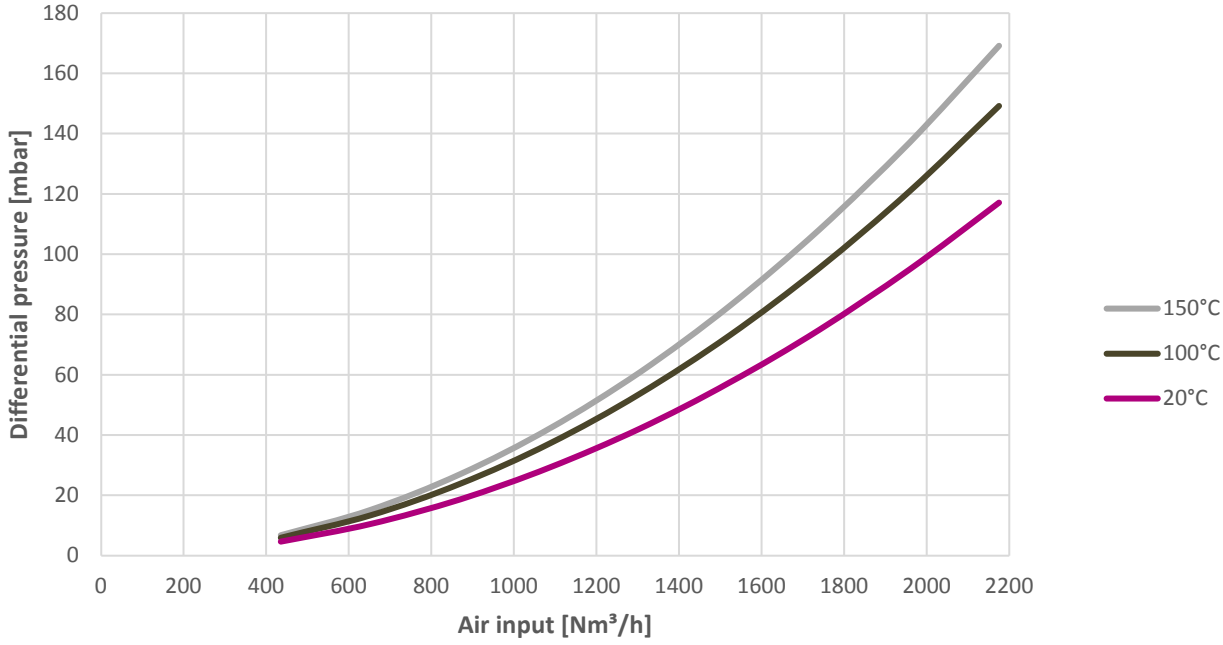
- All data are based on net calorific values = lhv
- All information is based on common practice for gas and air pipe design. Contact Fives ITAS S.p.A. if you need further support.
- All inputs are based on laboratory testing at neutral chamber conditions
- Natural gas Italian: lhv = 9,5 kWh/Nm³; d=0,6
- Natural gas Russian: lhv = 9,97 kWh/Nm³; d=0,56
- Propane: lhv 26,3 kWh/Nm³; d=1,58

1. OPERATION CURVE



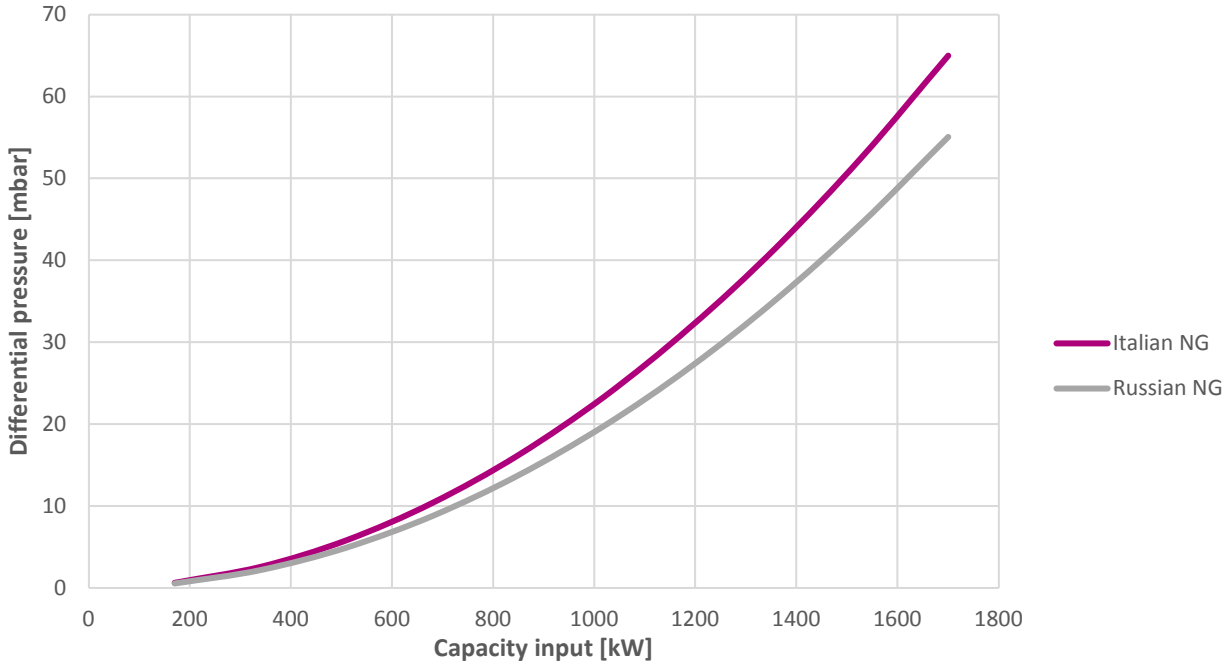
2. COMBUSTION AIR PRESSURE DROP

Pressure drop shall be taken between pressure Tap B and C



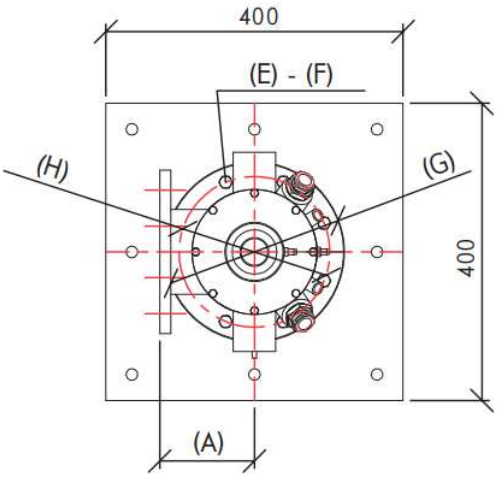
3. GAS PRESSURE DROP

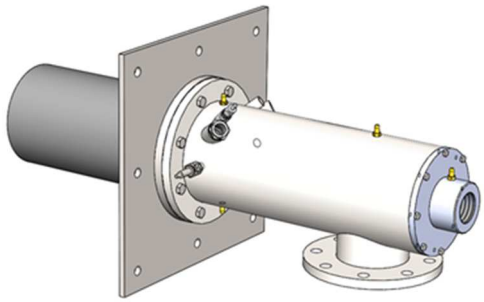
Pressure drop shall be taken as differential between pressure Tap A and B

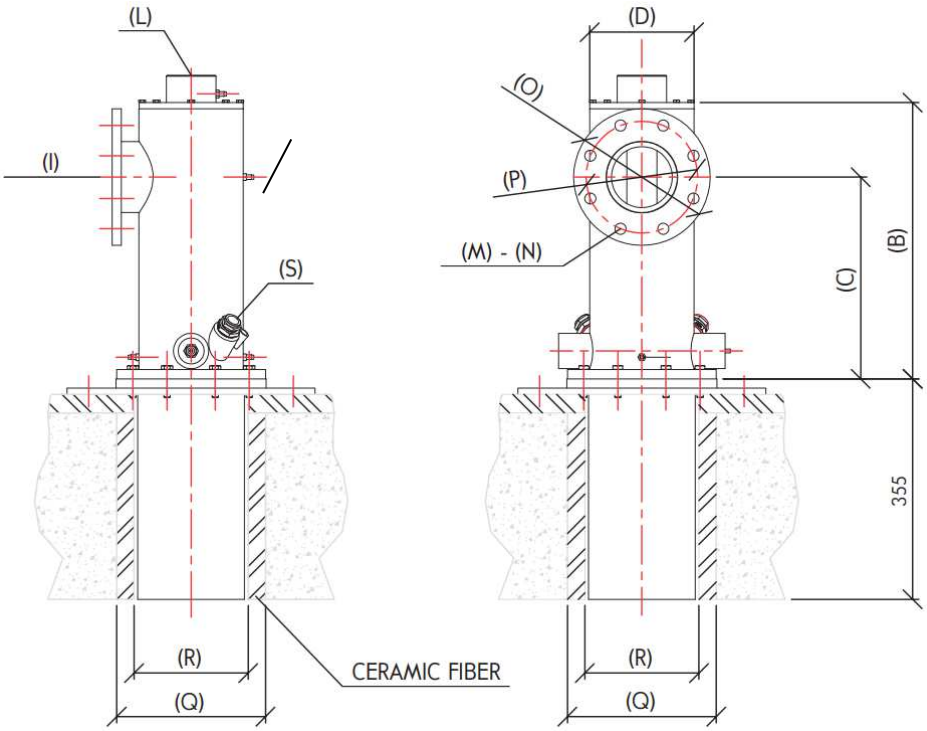


Note: Pressure drop curves shall be used as a guide for setting up burner. It is recommended to use fuel flow measurements for determining actual fuel flows.

4. DIMENSIONS







SF-24-MV dimensions	
A	128 mm
B	435 mm
C	325 mm
D	170 mm
G	240 mm
I	DN100 Air inlet
L	2” Gas inlet
R	203 mm SiC outer diameter
S	3/4" UV port