



# Stack Gas Sampling System

## HOFI BOX



The hot filtration technique:

Designed to meet almost all gas sample conditions using heated sampling universal method: ideal for corrosive gases

The **HOFI BOX** offers an exclusive sampling system dedicated to heated analyzers ( e.g. MIR FT, MIR 9000H, Graphite 52M, Topaze 32M,... ).

### EXCLUSIVE FEATURES:

- Sampling probe equipped with double stage particulate filtration
- Heated filter
- Direct injection of span and zero gas at the sampling point
- Automatic blowback for reduced maintenance
- Sample transfer up to 50m (clean & wet sample) by 140-180°C heated line
- Large selection of probes available depending on the process conditions (stack diameter, gas temperature, water content, particulates concentration)
- Automatic backflush function
- Heated probe with choice of materials and lengths to suit the application
- Longer heated sampling line available on request

### MAIN APPLICATIONS:

- Waste Incineration (Municipal Energy from Waste or Industrial)
- Sludge Incineration
- Gas turbines
- Power Plants
- Boilers
- Paper Mills
- Glass, Cement, Petro chemistry and Chemical Industry...



HOFI  
internal view with  
heated line correction



# Stack Gas Sampling System HOFI BOX

## TECHNICAL SPECIFICATIONS:

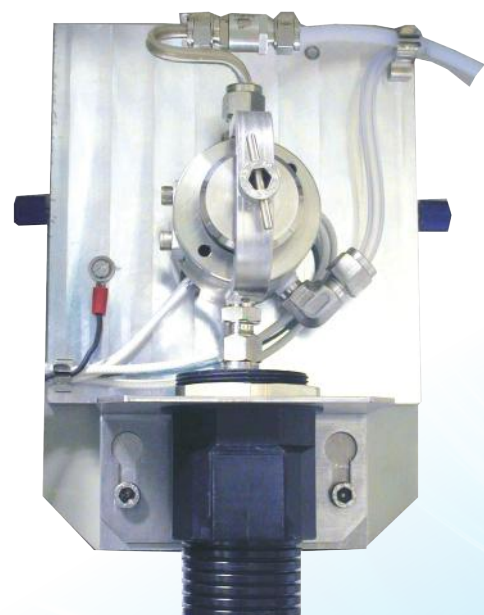
- Primary filter: 20 µm (depending on probe type)
- Fine filter: 0.5 µm
- Probe temperature: programmable from 100°C up to 250°C
- HOFI heated filter temperature: 180°C
- Sample flow rate: 60 to 120 l/h
- Dimensions : 400 x 600 x 200 mm (W x H x D)
- Weight: 15 kg (IP55 tight box)
- Power supply: 230 V/50Hz or 110V/50-60Hz
- Consumption: approx. 400 VA
- Operating temperature: -20°C to + 40°C
- Flange: DN100/PN20 (others upon request)

## UTILITIES :

- Instrument air: 1.5 bar mini, 2 Nm<sup>3</sup>/h

## MAIN OPTIONS:

- DTP: pressure, temperature and flow measurement of the gas stream
- Sliding flange



HOFI  
Heated filter (detail)

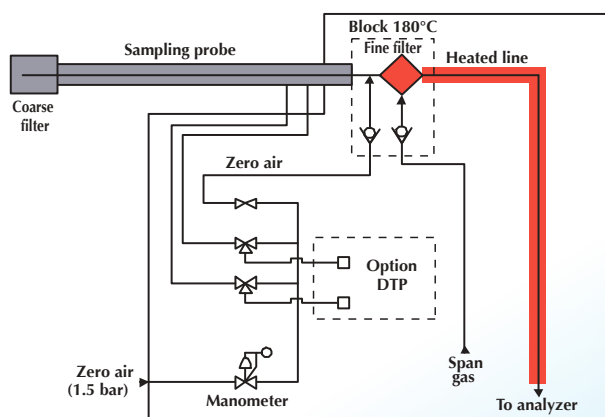
## PRINCIPLE OF OPERATION:

HOFI system is designed for stack gas sampling, with high particulate and moisture content. The heated filtration block can be adjusted at up to 200°C, to cover most of the CEMs applications.

The HOFI BOX is well-adapted to operate with MIR-FT analyzer and a heated sample transfer line.

It can be also used with different heated analyzers as, for instance, Model GRAPHITE52M for VOC (volatile organic compounds) monitoring.

The HoFi Box allows injection of span gas or zero gas in the heated block for a “probe calibration or head calibration”, thus allowing a complete check of the full sampling system down to the analyzer.



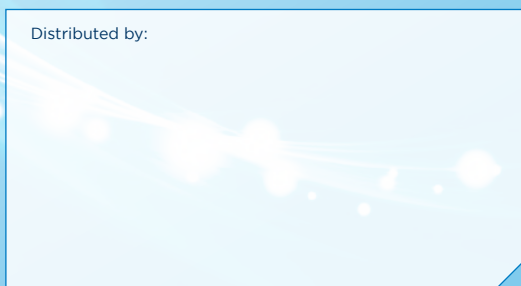
HOFI system flow chart

Type of probe	Model	Top of the probe
Wet processes T° max 140°C PTFE / Hastelloy	CA-PG-H-x	
HASTELLOY	CA-PG-R-x	
High Temp. T° max 550°C Stainless Steel	CA-PG-HT-x	

x = probe length

Available lengths: 0.5 / 0.7 / 1.0 / 1.5 m (others upon request)

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S-HOFI-EN\_150 - mDes -11/16