

## Filter Unit EFE 1

The probe unit EFE 1 is part of the heated filter unit EFH 1

### Application field:

It is used for filtering gases containing dust.

### Process gas sampling conditions

Pressure: pabs = 50 to 600 kPa  
 Temperature: Max. 200°C (coated max. 180°C)  
 Flow rate: 30 to 500l/h, relative to 100kPa and 0°C  
 Pressure drop: Approx. 0.6hPa at 100l/h  
 Dust content: max. 3g/m<sup>3</sup> (application recommendation);  
                   max. 40g/m<sup>3</sup> with probe tube  
                   max. 2000g/m<sup>3</sup>

### Filter characteristics

- > Surface filter
- > Filter fineness: 0.3 µm
- > Retention rate: 99.98 %
- > Seal integrity 10<sup>-4</sup> hPa l/s
- > Dead volume: 280 ml
- >

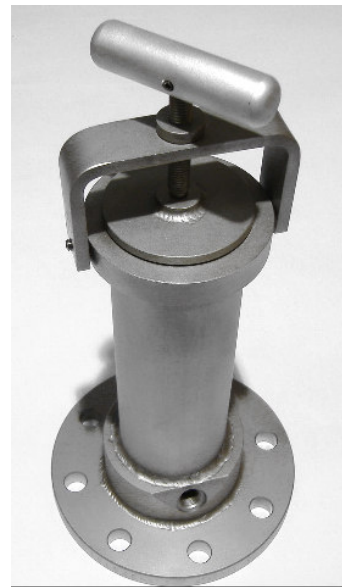
### Materials of gas-conducting parts

Casing, connections and flange steel 1.4571  
 Filter of aluminum oxide surface

### Installation

Flange: DN 65, PN 6, form B to DIN 2573  
 flange gasket : Viton;  
 Mounting: Flange connect or bolt to the probe tube over  
 DN 65 flange

Weight approx. 7,6 kg



**Connection: Mess. gas G 1/4-female thread after DIN ISO 228/1**

**Probe connection: G 3/4-female thread after DIN ISO 228/1**

### Probe tube for EFE 1

Stainless steel, SS316,  
 Glass-bead blasted surface  
 Attachment: 3/4" external thread according to DIN ISO 228/1  
 Installation position: any

### Process gas terms of withdrawal:

Temperature up to max. 450°C  
 Printed by: Pabs. 50-500 = kPa (0, 5-5bar)  
 Flow rate: max 300l/h  
 Pressure drop: approx. 10 h Pa at 30-90l/h

