



## ANKERSMID Heated filter AHF 10x Series

### Application

The AHF heated filter electrically heated universal filter reliably separates off solids, in particular extremely fine particles, occurring in analysis techniques in gas filtration, using very fine, deep-acting filter elements. It is constructed especially for hot gas analysis technique at 180°C.

### Description

Due to various acid dew points at various applications the filter is heated up to 180°C.

A filter element of 150mm is integrated, suitable for most applications up to 1g dust/m<sup>3</sup>. A significant advantage is that this filter is replaceable without using any tools.

The heated filter series AHF can be equipped with a wide range of filter elements. Also a unique spun-glass filter cartridge can be implemented, designed and reliable working especially at diesel generators, diesel exhaust or similar sooty applications.

Due to its modular design the heated filter covers the widest range of applications.

The temperature is controlled by self-limiting heater cartridges at an operating temperature of 180°C.

The double-isolated filter body prevents heating interruptions, the in- and outlet connection area is heated too.



\* Picture may vary

- **180°C operating temperature**
- **Integrated over-temperature safety switch-off**
- **Integrated clamps for a reliable connection of heated lines**
- **Very universal applicability**
- **Compact design suited for most stationary applications**
- **Full stainless steel design**
- **Easy handling**
- **Easy maintenance**
- **Low-temperature alarm**

**ANKERSMID Heated filter****Technical data****AHF 10x Series**

<b>Gas Sample Probe Version</b>	<b>AHF 10x</b>
Integrated filter length	150mm
Gas-wetted materials	Stainless steel 316
Sealing materials	Viton®
Max. dust loading	1g/m <sup>3</sup>
Max sample temperature	200°C
Time before ready-for-use	Approx. 15-30min
Sample pressure max.	0,5-4 bar abs.
Ambient temperature	-20°C to +80°C
Filter element porosity, material	2µm, ceramics (other materials on request)
Operating temperature	0-180°C
Temperature control	Self-limiting heating cartridges with - Low-temperature alarm contact (NO) - Over-temperature safety switch-off
Temperature alarm contact rating	250V-10A AC (NO)
Sample gas inlet	¼" f NPT
Sample gas outlet	¼" f NPT
Mounting plate	320 x 200 x 3mm
Power supply	230VAC/450W 115VAC/450W
Degree of Protection	IP54
Electrical connections	Junction box with 2 cable glands, Terminals (5 pcs.), max. 2,5mm <sup>2</sup>
Weight	Approx. 10 kg