

## Ultrac A

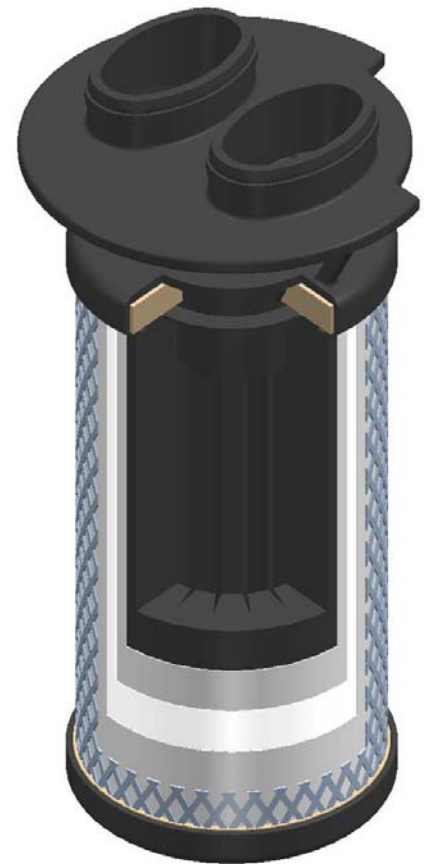
**Adsorption filter for the removal of oil vapour, hydrocarbons and odours**

### Product description:

The adsorption filter Ultrac A consists of 2 filter stages. At the adsorption stage oil vapour, hydrocarbons and odours are removed by activated carbon adsorption. Particles are removed at the depth filter stage, consisting of microfibre fleece. In addition, support fleece and an outer stainless steel support sleeve ensure proper fixation of the adsorption and filter stage.

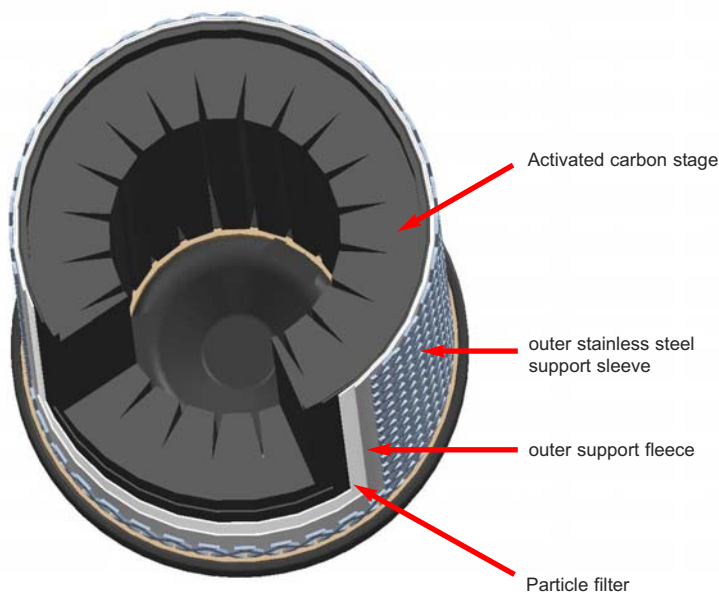
A special flow insert ensures optimum flow distribution. The flow direction through the filter is from inside to outside. This creates minimum pressure loss and ensures fully utilization of the filter material.

At appropriate pre purification (see „Recommended pre purification“) a residual oil content of  $< 0,003 \text{ mg/m}^3$  is achieved.



**Cross section of the Ultrac adsorption filter**

### Adsorption filter design



### Applications:

The Ultrac adsorption filter is for example being used as decentral final filtration in:

- Chemical industry
- Petrochemical industry
- Pharmaceutical industry
- Breathing air supply
- Prefiltration of sterile air
- Filling machines
- Packaging machines
- Food industry
- Beverage industry
- Process industry (instrumentation and control air)

## Ultrac A

Features:	Benefits:
Flow optimized design	Minimum pressure losses, therefore savings of energy costs
High packing density and inner surface of activated carbon foam	High adsorption capacity and improved efficiency guarantee optimum purification performance over the whole life time
Flow distributor at filter inlet	Reduces flow resistance and ensure optimum oncoming flow of the adsorption material
Activated carbon embedded in support foam	Prevention of activated carbon abrasion
Microfibre fleece depth filter stage at filter outlet	Improvement of particle retention - class 2 acc. to ISO8573-1 achievable

Materials:	
Adsorption stage	Activated carbon granulate, embedded in PUR ester carrier material
Filter medium	Binderfree borosilicate
Support fleece	Polyamide fleece
Bonding	Polyurethane
End caps	Glass-fibre reinforced polymer
2 O-Rings	Viton: silicone free and free of compound (standard)
Support-sleeves	Stainless steel 1.4301/ 304

Adsorption efficiency of AK Some examples:	
Oil vapour	A
Benzene	A
Ethane	D
Toluene	A
Acetic acid	A
Methanol	B
Acetone	B
Isopropyl ether	A
Methyl acetate	B
Sulphuric acid	A
Hydrogen sulphide	C
Chlorine	B
Freon	C
Ammonia	C
Citrus fruits	A
Perfumes	A

Recommended application temperature:
+10°C...+40°C (Tmax = +60°C)

Recommended pre purification:
Residual oil content < 0,01 mg/m <sup>3</sup> , e.g. by sub microfilter

Retention rate:
Residual oil content < 0,003 mg/m <sup>3</sup> , at appropriate pre purification

Key:
A= very good
B= good
C= poor
D= slight

