

Ultrac AK

Adsorption filter for removal of oil vapour and hydrocarbons as well as odours

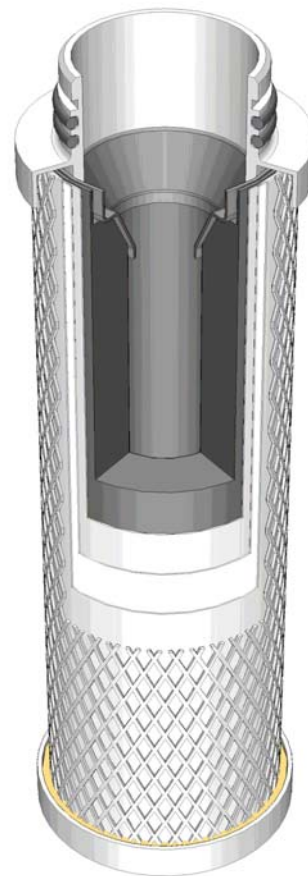
Product description:

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

Characteristics:

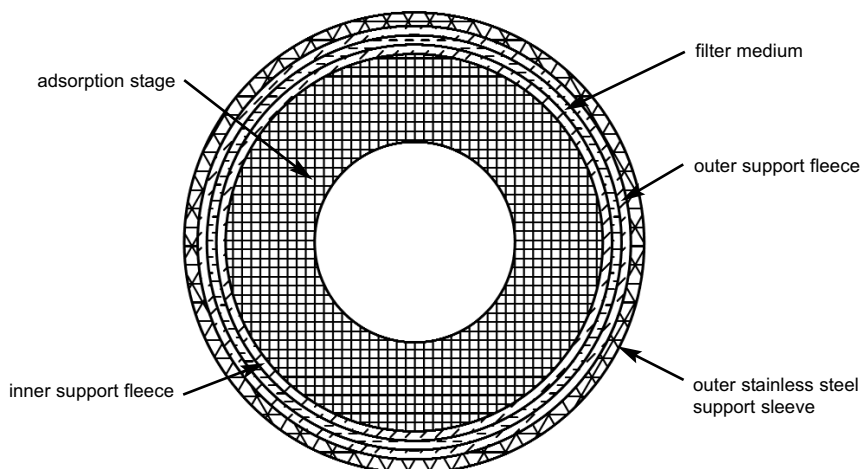
A special flow insert ensures optimum flow distribution at flow direction through the filter from inside to outside. This creates minimum pressure loss and ensures fully utilization of the filter material.

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 in the following industries

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

Ultrac AK

| Features: | Benefits: |
|---|--|
| 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 incorporated into 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 into PUR ester foam |
| Filter medium | Binderfree borosilicate |
| Support fleece | Polyamide fleece |
| Bonding | Polyurethane |
| End caps | Aluminium |
| 2 O-Rings | Perbunan-silicon-free and free of compound (standard) |
| Support-sleeves | Stainless steel 1.4301/ 304 |

| Adsorption efficiency of AK Some example: | |
|--|---|
| 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 |

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

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

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

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

| Initial differential pressure at nominal flow: |
|--|
| 0,07 bar |