



**ULTRAFILTER**  
THE FILTRATION MANUFACTURER

*Kronsbein ultrafilter*®



# Oil-Water-Separator ultra.sep

# ultra.sep: the environmentally friendly

## Condensate purification is a necessity

Condensate with an oil content of 5% on average, is potentially harmful to the environment and must not pass into the wastewater without purification. The specified critical value by legislation is set at a maximum of 20 ppm (measured according to DIN EN ISO 9377-2). – However, certain locally encountered regulations are even more restrictive.

ultra.sep systems for oil/water separation fulfil these requirements, reduce disposal costs and protect the environment.

All sizes were tested and certified by the DIBT Z-83.5-16 – Deutsches Institut für Bautechnik (Structural Engineering Institute).

The ultra.sep condensate separator is designed to separate all types of compressed air condensate. Condensate emulsions created through either mineral and/or synthetic lubricants will be successfully separated by the Ultra.sep. All ultra.sep models can accept condensate discharge from intelligent drains, timer drains, float drains and manual drains. Additional condensate can be added manually.

## Ultra.sep working principle:

Polypropylene has the perfect effect on oil and readily attracts oil and captures it. This simplicity and our technology are at the root of the ultra.sep's efficiency in cleaning virtually all types of condensate, whether emulsified or not. Subsequent separation stages incorporate specially selected activated carbon to polish out the remaining contaminants.

## Features and Benefits

- Separation of compressed air condensate regardless of which type of compressor lubricant is applied.
- For each capacity we offer the right solution: 6 models for compressor capacities ranging from 180 m<sup>3</sup>/h up to 8400 m<sup>3</sup>/h.
- Any type of compressor can be applied.
- Any type of condensate drain may be applied.
- Does not incorporate/require a condensate settling tank, so there is no bacteria build-up.
- Simple to install.
- Simple and fast filter change procedure.
- Service drain incorporated for draining the heavier models.
- Optical overflow indicator.
- Residual oil content < 10 ppm
- Test valve and test set included for sampling purposes.
- Protective clothing supplied as standard



# ly condensate management system

## Test kit to ensure proper operation

With the test set, the purity of the water can be checked. The test set, which is included in the system's tower head, is available at all times.

## Multi-connections for condensate supply

The units incorporate 2 or 4 brass threaded connections (depending on the model). This simplifies the connection of more than one condensate drain and increases the flexibility during linking up.

## The Ultra.sep separates all types of compressor condensate

The Ultra.sep is designed to separate mineral lubricants and synthetic lubricants from the condensate. Condensate emulsions created through either mineral and/or synthetic lubricants will be successfully sep-

arated by the Ultra.sep. Special elements are available for Polyglycol applications, on consultation with the manufacturer.

## Service advantages

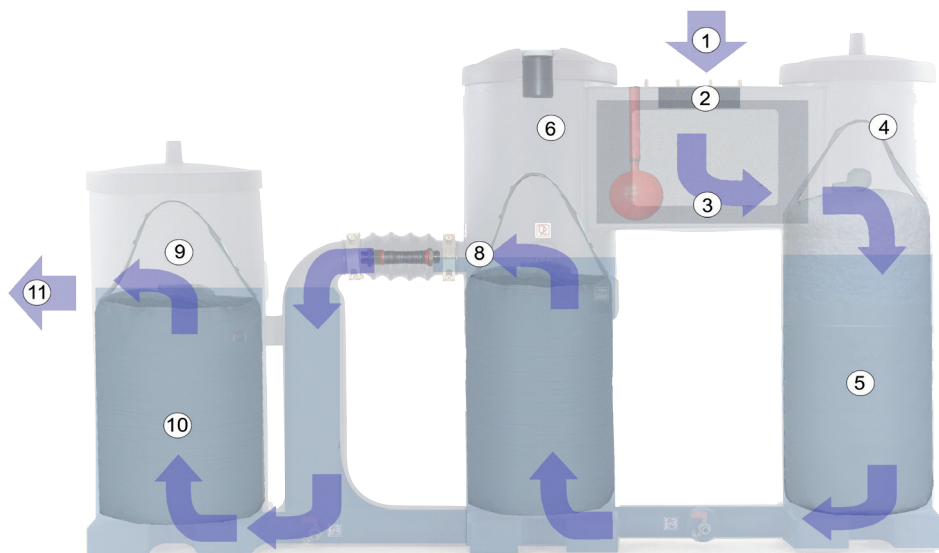
Once a year we recommend a thorough cleaning/servicing of the Ultra.sep. For health and safety reasons the whole unit can be drained from its water content by opening the servicing drain valve.

## Hook up feature for the larger models

Although the overall sizes of the ultra.sep models are compact in design, the larger models have an additional hook-up feature. The Ultra.sep 240 can be positioned in a 90-degree (corner position) or a 180-degree (at against the wall position).

### The function:

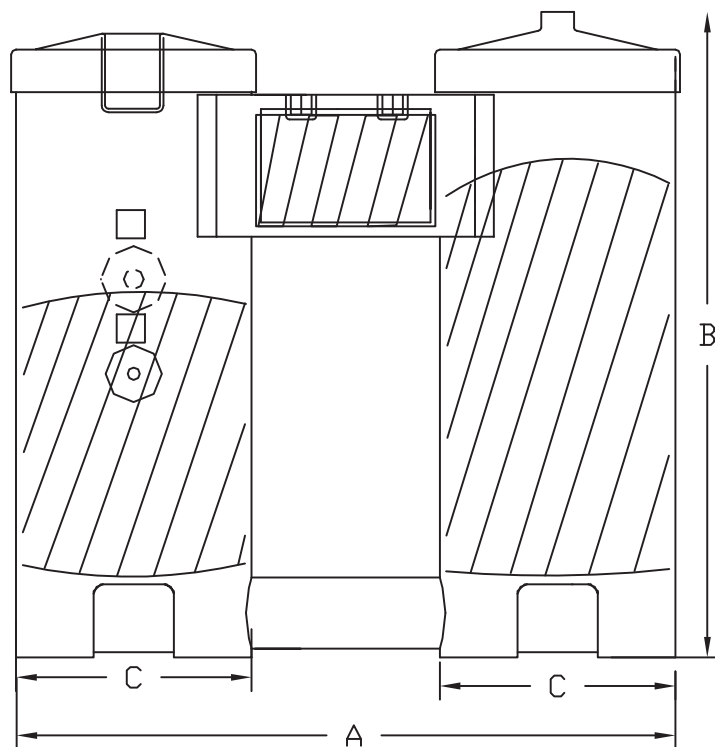
Pressurised oily compressor condensate (emulsified or not) may be discharged into the ultra.sep range of separators through the inlets (1). The condensate gets depressurised in the central depressurising chamber (3). The oily condensate flows in the central depressurising chamber first through a large particle filter (2). After depressurisation the condensate flows from the central depressurising chamber into tower 1 (4), after which the condensate flows through a high capacity oil adsorbing filter element (5), to ensure separation takes place. In this second filtration phase most of the oil is adsorbed. The pre-cleaned condensate, which will now contain very little oil, will flow through the third filtration phase in tower 2 (6), containing an activated carbon element (7) ensuring final purification is achieved before being discharged through the outlet (8). This third filtration phase ensures that possible remaining oil contaminants are adsorbed and polished out.



## Technical data:

| type    | compressor capacity nom. | connection | Volume in l |             |                  |
|---------|--------------------------|------------|-------------|-------------|------------------|
|         |                          |            | vessel      | preadsorber | activated carbon |
| UAS 005 | 210                      | 1/2"       | 10          | 5           | 4                |
| UAS 015 | 480                      | 2 x 1/2"   | 32          | 20          | 14               |
| UAS 030 | 1200                     | 2 x 1/2"   | 71          | 40          | 27               |
| UAS 060 | 2100                     | 4 x 1/2"   | 95          | 55          | 37               |
| UAS 120 | 4200                     | 4 x 1/2"   | 172         | 55          | 114              |
| UAS 240 | 8400                     | 8 x 1/2"   | 344         | 110         | 228              |

| type    | weight in kg | dimensions in mm |      |     |
|---------|--------------|------------------|------|-----|
|         |              | A                | B    | C   |
| UAS 005 | 6,8          | 390              | 390  | 165 |
| UAS 015 | 18,0         | 700              | 720  | 250 |
| UAS 030 | 42,5         | 780              | 1020 | 295 |
| UAS 060 | 51,3         | 1040             | 1120 | 315 |
| UAS 120 | 98,0         | 1760             | 1120 | 355 |



Technical alterations reserved



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