

# *oil-water-separators* *ultra.sep*



# ultra.sep: the environmentally friendly cond

## 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 254.5-179 – 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.

## 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

## 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.



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

## Service advantages

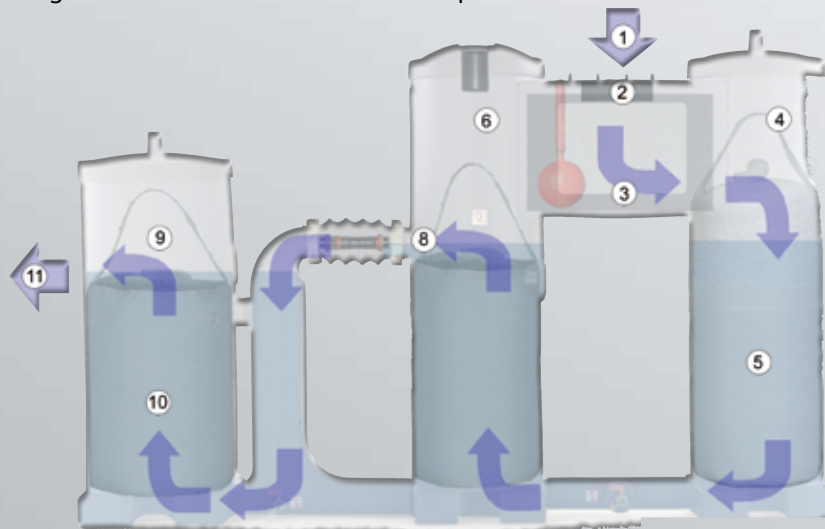
■ Once a year we recommend a thorough cleaning/servicing of the Ultra.sep. For health and safety reasons the whole unit can be drained from its water content by opening the servicing drain valve.

## 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 (flat against the wall position).

## The function

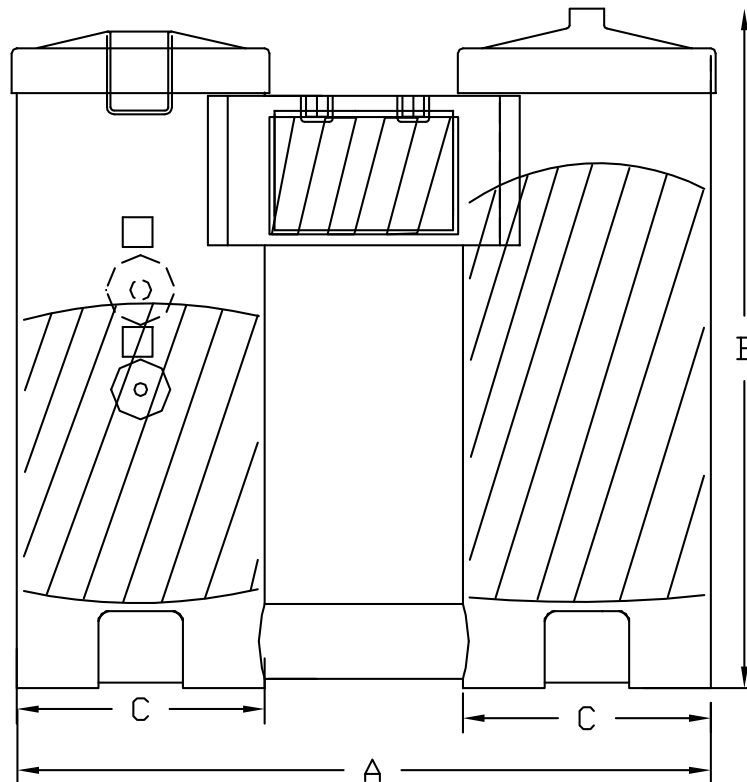
Pressurised oily compressor condensate (emulsified or not) may be discharged in to the ultra.sep range of separators through the inlets (1). The condensate gets depressurised in the central depressurising chamber (3). The oily condensate flows in the central depressurising chamber first through a large particle filter (2). After depressurisation the condensate flows from the central depressurising chamber in to the 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 ultra.sep

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



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**ultrafilter gmbh**

Otto-Hahn-Str. 1 • 40721 Hilden • Germany

Tel: +49 (0) 21 03.33 36 0 • Fax +49(0)21 03.33 36 36

e-Mail: [info@ultra-filter.de](mailto:info@ultra-filter.de) • [www.ultra-filter.de](http://www.ultra-filter.de)