Industrial Gases

Ultrasep US 4.5i - 60i
Oil-Water-Separator



PRODUCT DESCRIPTION

The oil-water separator is designed to separate mineral and synthetic oils from compressed air condensates even in emulsified condition.

The range of separators is split into 5 sizes for nominal compressor capacities of up to 60 m³/min.

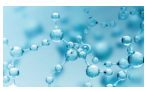
By using the flow distributor option the capacity can be extended by operating multiple separators in parallel.

Corrosion resistant polymere and metal materials are used for housing and pipe connections to ensure long lifetime.

MAIN FEATURES & BENEFITS

- **Filtration materials**
  High performance filtration materials applied
- **Separation properties**
  Separates all types of compressor lubricants, successfull separation of mineral & synthertic lubricants and even emulsions
- **Drains**
  Operates with all drain types both timer- controlled and electronic level-controlled
- **Ultrasep Flow Distributor**
  For multiple installation of separators for large condensate flow
- **Design**
  Compact design and small foorprint
- **Maintenance**
  Simple, fast and clean installation and maintenance procedure
- **Mounting specifics**
  Fixing bracket for wall mounting of model 4.5 optionally available

INDUSTRIES






- Industrial Gases
- Automotive
- Food Processing
- Industrial Machinery

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Technical alterations reserved (04/2026)

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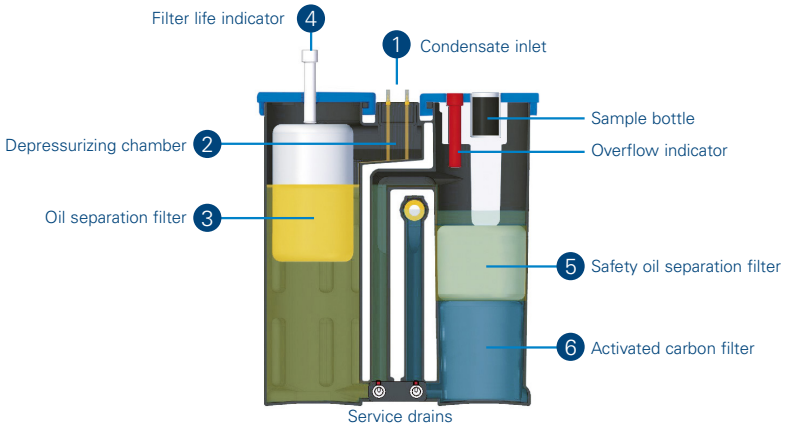
Function

The oil-water separator Ultrasep US is designed to separate mineral and synthetic oils from compressed air condensates even in emulsified condition.

To achive this, condensate lines are connected to the inlet ports **(1)**. Pressure is released in the depressurization following chamber **(2)** that includes an activated carbon foam exhaust filter.

An oil separation filter with special treated polypropylene fibers **(3)** is filtering the oil in the first filter stage until the material is saturated. The filter life indicator **(4)** is moving down the more oil is adsorbed on the fibers.

The second oil separation filter stage **(5)** is protecting the activated carbon filter **(6)** that is acting as a polishing stage to ensure a maximum oil content of 5 mg/l (ppm) on the clean water outlet.



Features	Benefits
Special hydrophobic and oleophilic treatment on polypropylene filter media	Ensures high oil absorption capacity for mineral and synthetic oil types and can separate even emulsified condensate. Operates with all drain types (both timer-controlled and electronic level-controlled)
Activated carbon filter stage included	Polishing filter stage to ensure constant low residual oil content down to 5 mg/m³ over the filter life
Ultrasep Flow Distributor	Allows capacity enlargement by using multiple separators in parallel operation
Filter life indicator	Indicates filter saturation and triggers filter exchange
Overflow indicator	Safety device indicates application issues or over-saturated filters
Compact design and small footprint	Saves installation space in the application
Simple, fast and clean installation and maintenance procedure	Saving of installation time and required downtime for service and maintenance work
TEST valve & sample bottle to test oil ppm residue as standard	Enables control of separation performance and residual oil content level
Carepac	Includes replacement filters for all filter stages as well as personal protection equipment for the service operator
Housing made of PE (polyethylene); pipe connections made of brass	Corrosion resistant materials ensure long lifetime of separator unit

Separator Size	Compressor Capacity m³/min. (scfm)	Oil Adsorption Capacity liters (galon)	Residual Oil Content (target value)	Temperatur range (ambient/ operation)
4.5	4.5 (159)	4 (1.0)	5 ppm	+1- +60°C (+34- 140°F)
10	10 (353)	10 (2.6)		
20	20 (706)	15 (4)		
30	30 (1059)	25 (6.6)		
60	60 (2119)	50 (13.2)		

MATERIALS / DIMENSIONS

Materials	
Housing	PE
Filter media	PP / activated carbon
Fittings + valves	Brass

Certification
Separator range is certified by the German DIBt (Deutsches Institut für Bautechnik)



Size	Water Filling Volume incl. filters liters (galon)	Total Filling Volume (w/o filters) liters (galon)	Weight kg (lbs)	A mm (inch)	B mm (inch)	C mm (inch)
4.5	16 (4.2)	21.4 (5.6)	9.5 (21.0)	569 (22.4)	392 (15.4)	199 (7.8)
10	32 (8.4)	59 (15.6)	18 (39.7)	750 (29.5)	650 (25.6)	240 (9)
20	67 (17.7)	84 (22.2)	39 (86)	900 (35.4)	780 (30.7)	305 (12)
30	106 (28)	128 (33.8)	66 (145.5)	900 (35.4)	970 (38.2)	380 (15)
60	197 (52)	250 (66)	105 (231.5)	1040 (40.9)	1160 (47.7)	480 (18.9)

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