DATA SHEET
Adsorption carbon filter cartridges for condensate separators (oil/water) – Donaldson Ultrasep® P / UFS-P series and Schneider OWATEC®

1. Product and manufacturer identification

- **Product name:** Alternative filter inserts with activated carbon for condensate separators
- **Intended use:** Compatible replacement parts for gravity condensate separators of the Donaldson Ultrasep® P series (P 7.5, P 15, P 30, P 60, P 120, P 240) / UFS-P and structurally identical Schneider Airsystems OWATEC® units (Type 40, Type 120)
- Manufacturer: Carbon Filters – Antonín Kohoutek, U Blaženky 2616/12, 150 00 Prague 5, Czech Republic
- **Company ID (IČO):** 16643518
- **Contact:** tel.: +420 608 208 771 | e-mail: info@carbonfilters.cz | web: www.carbonfilters.cz
- **Country of origin:** Made in the Czech Republic

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2. Description and function of filtration

The filter inserts are intended for the final polishing of the condensate produced during the generation of compressed air in piston and screw compressors. After the gravity-driven separation of free oil in the sedimentation and settling chamber of the separator, the carbon cartridges capture the residual dispersed compressor oil droplets before the water is discharged into the public sewer system.

- **Adsorption stage (AC):** A filter cartridge in a rigid, permeable polyester (PES) casing, filled with highly active granulated carbon, which adsorbs dispersed oil and reduces the content of non-polar extractable substances (NEL) below the legal limits. (Note: The design of these separators does not use a separate removable pre-filter – mechanical impurities are captured by the sedimentation chamber and by the PES casing of the carbon cartridge itself.)

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3. Overview of variants, compatibility and composition of the sets

Donaldson Ultrasep® P / UFS-P	Schneider OWATEC® (equivalents)	Composition of the filter set
Donaldson Ultrasep® P	**OWATEC® Type 40**	1× AC main carbon filter

7,5 / UFS-P 7,5		(in PES casing)
Donaldson Ultrasep® P 15 / UFS-P 15	-	1× AC main carbon filter (in PES casing)
Donaldson Ultrasep® P 30 / UFS-P 30	-	1× AC main carbon filter (in PES casing)
Donaldson Ultrasep® P 60 / UFS-P 60	**OWATEC® Type 120**	2× AC main carbon filter (in PES casing)
Donaldson Ultrasep® P 120 / UFS-P 120	–	4× AC main carbon filter (in PES casing)
Donaldson Ultrasep® P 240 / UFS-P 240	–	8× AC main carbon filter (in PES casing)

(Note: AC = adsorption cartridge with activated carbon in a permeable polyester casing. The sets for the Ultrasep® P series and for OWATEC® Type 40–120 do not contain a separate pre-filter.)

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4. Common technical parameters and operating limits

Parameter	Specification
Filter material and casing of the filter (AC)	Granulated activated carbon in a permeable polyester (PES) casing
Working pressure	Pressure-free gravity flow through the filter stage (condensate inflow into the decompression chamber may be pressurised up to 10 bar)
Condensate operating temperature	+5 °C to +45 °C (the unit must not be exposed to frost)
Suitable oil types	Mineral oils, synthetic oils based on PAO and esters
Unsuitable medium	Stable emulsions (milky, non-separable condensate), polyglycol (PAG) oils, solvents and aggressive chemicals
Outlet water quality	Residual oil content (NEL) < 10–20 mg/l (with correct sizing of the unit and compliance with the operating conditions)

5. Installation and maintenance instructions

1. **Preparation before installation:** Before inserting into the separator, the cartridges with activated carbon must be soaked in clean water for 24 hours. This displaces the air from the pores of the carbon, washes out fine carbon dust and ensures an even flow of condensate.
2. **Filter replacement:** Close the condensate inlet, remove the exhausted filters from the separator chambers, let them drip briefly and place them in a leak-proof container for hazardous waste.

3. **Fitting new filters:** Insert the new carbon cartridges into the filter chambers (for multi-chamber models P 60 / OWATEC 120, P 120 and P 240, evenly into all chambers) and seat them carefully down to the stop so that they fit tightly and the condensate cannot bypass them.
4. **Start-up:** Fill the separator chamber with clean water up to the overflow level and open the condensate inlet.
5. **Operational check:** Check the quality of the outflowing water at least once a week by taking a sample from the test valve and visually comparing the turbidity. Replace the filters after 12 months of operation at the latest, or immediately if the turbidity of the outlet water increases or the level in the tank rises.

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6. Storage and disposal

- **Storage:** Store in the closed packaging in a dry place at a temperature of +5 °C to +35 °C. Protect from direct sunlight, moisture and fumes of chemicals or solvents. The shelf life is 24 months from the date of manufacture.
- **Disposal:** Used filters saturated with compressor oil are hazardous waste (waste catalogue code 15 02 02* – absorbents, filter materials, wiping cloths and protective clothing contaminated by hazardous substances) and must be handed over to an authorised person for disposal in accordance with the Waste Act.

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7. Manufacturer's declaration

The manufacturer Carbon Filters – Antonín Kohoutek declares that, when professionally installed and operated under the specified operating conditions, the listed products are a fully functional replacement for the original parts and reduce the content of petroleum substances in the condensate below the usual limits of sewer regulations.

The names Donaldson®, Ultrafilter®, Ultrasep®, UFS-P®, Schneider®, Schneider Airsystems® and OWATEC® are registered trademarks of the respective companies and are used here solely for the purpose of unambiguously identifying the compatibility of the replacement part.