

OWS 4-900 OIL-WATER SEPARATOR CONDENSATE TREATMENT SYSTEMS

BECAUSE IMPROVEMENT NEVER STOPS

CONDENSATE TREATMENT: A COMPRESSED AIR NECESSITY

If you own an oil-lubricated compressor, condensate treatment is an absolute requirement that is too often overlooked. The condensate these compressors generate consists of an oil-water emulsion, which must be properly treated. Specifically, the oil must be separated out from your waste water and safely disposed of to protect the environment. The OWS 4-900 oil-water separator series from ALUP offers you a more effective and low maintenance way of getting this important job done without having to rely on third party equipment.

OWS: IMPROVED FILTRATION & ENVIRONMENTAL PROTECTION

The new ALUP OWS safely and reliably separates oil from the condensate of oil-lubricated compressors. Thanks to its dual-stage treatment with polypropylene and activated carbon or organoclay, the OWS also separates out stable emulsions* for more complete filtration. The result: your waste water meets the most stringent purity standards and contributes to a cleaner environment.

* A stable emulsion is a mix of oil and water that have not naturally separated.



OWS: YOUR BENEFITS

- **EXTREMELY CLEAN WASTE WATER** High purity with oil content as low as 5 ppm at outlet
- **LOWER YOUR OPERATIONAL COSTS** Quick and clean service with easy-to-replace cartridges
- **LOW MAINTENANCE** 4,000-hour service interval
- **BETTER FILTRATION FOR A CLEANER ENVIRONMENT** Can remove oil as well as stable emulsions
- **HIGHLY EFFICIENT** Extend the ALUP quality throughout your compressed air system

A BETTER OIL-WATER SEPARATOR



Filtration with polypropylene and activated carbon/organoclay -

Filtration starts with polypropylene removing the free oil, followed by activated carbon/organoclay separating the stable emulsions. This dual-stage treatment also filters out more oil than conventional oil-water separators.



Service indicator -

While traditional oil-water separators can be difficult and messy to service, the OWS was specifically designed for easy maintenance.

OPTIONS

- OVERFLOW INDICATOR
- MANIFOLD FOR MULTIPLE CONDENSATE INLET
- WALL MOUNT KIT

TECHNICAL SPECIFICATIONS

| Model | Max capacity - Mild climate with dryer & filters | | Max capacity - Mild climate without dryer & filters | | Dimensions | | | | | |
|----------------|--------------------------------------------------|------|-----------------------------------------------------|------|------------|-----------|-----------|---------------|-------------|-------------|
| | m ³ /hr | cfm | m ³ /hr | cfm | A | B | C | Weight | Connections | |
| | | | | | | | | | mm (in) | mm (in) |
| OWS 4 | 54 | 32 | 43 | 25 | 250 (10) | 147 (6) | 216 (9) | 1.2 (2.6) | 6mm (1/4") | 10mm (3/8") |
| OWS 9 | 113 | 66 | 90 | 53 | 250 (10) | 147 (6) | 216 (9) | 1.5 (3.4) | 6mm (1/4") | 10mm (3/8") |
| OWS 18 | 225 | 132 | 180 | 106 | 390 (15) | 278 (11) | 428 (17) | 5.8 (12.7) | 2 x 1/2" | 1/2" |
| OWS 31 | 383 | 225 | 306 | 180 | 397 (16) | 286 (11) | 507 (20) | 7.7 (16.9) | 2 x 1/2" | 1/2" |
| OWS 61 | 765 | 450 | 612 | 360 | 490 (19) | 396 (16) | 576 (23) | 13.1 (28.9) | 2 x 3/4" | 3/4" |
| OWS 108 | 1350 | 795 | 1080 | 636 | 583 (23) | 446 (18) | 721 (28) | 25.3 (55.7) | 2 x 3/4" | 3/4" |
| OWS 225 | 2813 | 1655 | 2250 | 1324 | 692 (27) | 568 (22) | 970 (38) | 45.1 (99.4) | 2 x 3/4" | 3/4" |
| OWS 450 | 5625 | 3311 | 4499 | 2648 | 975 (38) | 782 (31) | 1000 (39) | 86 (189.5) | 2 x 3/4" | 3/4" |
| OWS 900 | 11250 | 6621 | 8998 | 5296 | 975 (38) | 1600 (63) | 1000 (39) | 171.9 (379.1) | 2 x 3/4" | 3/4" |

Correction factors:

| | | | | | | | | |
|-----------------------|-------------------|------|------|------|------|------|------|-----|
| Relative humidity | % | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | | |
| | Correction factor | 1.10 | 1.00 | 0.85 | 0.74 | 0.66 | | |
| Ambient temperature | °C | 15 | 20 | 25 | 30 | 35 | 40 | |
| | Correction factor | 1.33 | 1.17 | 1.00 | 0.76 | 0.50 | 0.30 | |
| Running hours per day | hrs | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | Correction factor | 1 | 0.86 | 0.75 | 0.67 | 0.6 | 0.55 | 0.5 |

Reference conditions:

Relative air humidity: 60%
 Air inlet temperature: 25°C (77°F)
 Running hours per day: 12 hrs
 Effective working pressure: 7 bar (102 psi)