Oil-water separators

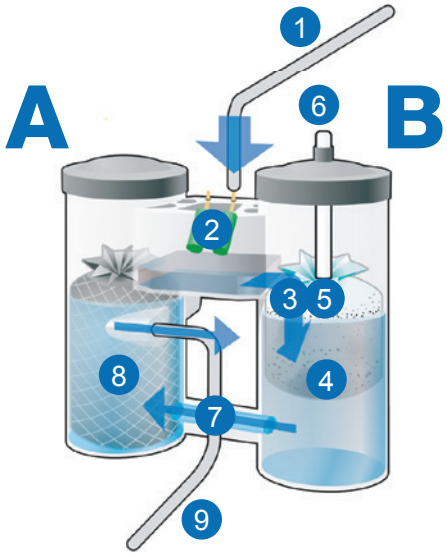
The WS Series oil-water separators collect the separated residual oil in a suitable container allowing the water which has been cleared of impurities to be drained. They represent a valid and economical solution to separate oil from condensate and offer a solution in-line with ecological legislation.

Applications

- Any application using compressed air systems

Main benefits

- Rinsed water which can be discarded easily and safely
- Easy operation
- Requires minimal installation and maintenance
- Meet environmental regulations and improve company image
- Excellent performance due to oleophilic and carbon filters
- Avoid high treatment costs
- User friendly (e.g. maintenance indicator)



1. Collection of any type of condensate including a mix of different oils
2. Condensates are collected though mufflers located in an expansion chamber where first stage separation takes place by depressurization.
3. Water/oil emulsion enters column A and passes through an oleophilic media, made of oil absorbing fibres which allow water to pass through.
4. The oleophilic filter floats in column A. This is advantageous for absorbing residual oil floating on the surface.
5. The weight of the filter increases as oil saturation increases. Oil progressively begins to reach the service indicator. Part of the filter that is not saturated keeps in contact with the water surface.
6. When the filter is totally saturated, there is indication that the filter needs to be changed.
7. Only cleaned condensate from the bottom of column A flows to column B.
8. Column B contains activated carbon, and absorbs the remaining oil in the condensate. The large capacity of the system prevents any risk of spillage in case of blockage of the system or if the system produces excessive quantities of condensate.
9. Oil content is approximately 15mg/l, at reference conditions, at the outlet, a level that allows disposal of the condensate into the foul drain without risk to the environment.

Maintenance kits

We offer maintenance kits to ensure constant performance and prompt maintenance. Each kit is carefully designed to simplify all maintenance and ensure correct operation. Cartridge exchange can be done quickly by removing the separator cap. A bucket is provided in the filter kit, so that old filters can be removed without spillage.

For each type of Oil/water separator, three service kits are available:

- Service kit A comprises the material to change the oleophilic filter once. It is a kit for the first service after installation when the condensate is in normal condition. After this, service kit D can be used.
- Service kit B comprises the material to change the oleophilic filter twice and the activated carbon filter once. This kit should be used when the condensate is in normal condition. The lifetime of the carbon filter is twice as long as that of the oleophilic filter.
- Service kit D comprises the material to change the oleophilic filter as well as the activated carbon filter once. This kit should be used when the condensate contains a lot of oil, so that all the filters will be saturated at the same time.
- Note: The service kits are delivered with diffuser, mufflers, buckets.

ABAC offers you all the spare parts you need to guarantee long life and reliable operation of you compressor. ABAC Original parts have passed the severe endurance tests and are designed to the same standards as your equipment, thus providing the best protection for your investment.

Unprofessional maintenance might lead to a supplementary, unpredictable high cost due to element or piston failure, wear, break-down cost, reduced lifetime and even contamination of the compressed air supply.
For example, the yearly energy cost for a 30 kW compressor can increase with 1000-2000€*.

Extend the lifetime of your compressor with ABAC Original Parts.