

RF Series Compressed Air and Gas Filters

This series comprises three distinctly different types.

Coalescing filters trap a large proportion of the very finely vapourised oil and water droplets common in compressed air and gas streams. This is achieved by flowing the stream through an element from its centre to the outer surface. Filter media is borosilicate – a matrix of extremely fine fibres held in a resin. The tiny vapour drops strike and adhere to these fibres and

progressively grow in size until they are carried through the filter material to the outer surface of the element where they are drained to the filter sump by three layers of polyester matting - impervious to all compressor oils . Filter grades are identified by a figure followed by the letter “C “ – smallest figure is finest grade. Four micron ratings available.

Particulate filters are designed to separate large concentrations of solid particles from the stream. These have pleated cellulose paper elements which are not affected by oil or

water. The pleating offers a very large surface area – low differential pressure loss and long life. Filter element is designated by “PU”.

Activated carbon adsorbers are used to remove the last traces of oil vapours and oil odour. The activated carbon used has been finely ground to 40 microns thus ensuring the air or

gas is exposed to the largest possible area of carbon. The carbon attracts and holds hydrocarbons on its surface area until saturated. Filter element is designated by ”AU”.

Selecting and maintaining the correct filter.

- Always select a unit with a greater flow capacity than is required.
- Base selection on flow rate rather than pipe size.
- Protect a coalescer with a particulate filter when dirt load is high.
- Protect a coalescer from bulk moisture with Rawsen RCS separator.
- Use two stage coalescing to control heavy oil contaminations.
- Ensure efficient draining of coalescers, preferably auto drain.
- Activated carbon adsorbers must be protected by a coalescer.
- Monitor differential pressure indicators to ensure efficiency.
- Replace activated carbon element when replacing coalescer.

