

About Zero Oil Filter Assembly

(We are leading filter supplier in India)

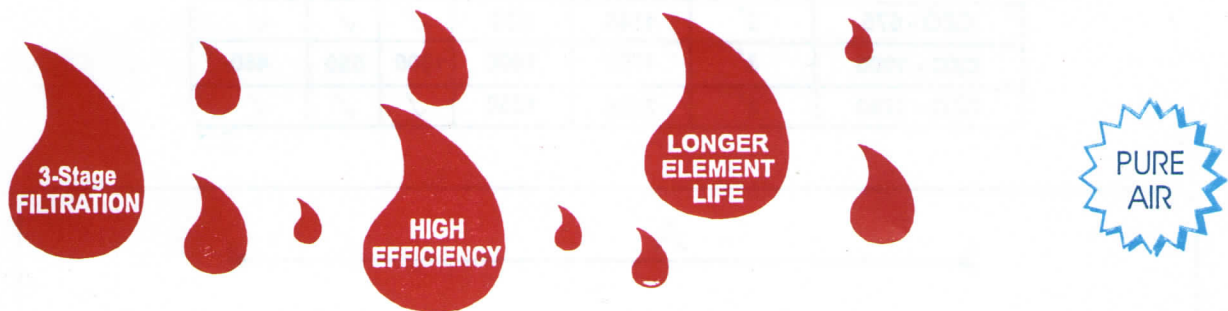
PREFACE :

Zero Oil Filter is recommended where absolute oil free air (99.999%) is required. It is installed in the down stream from compressor, after cooler and receiver. The problem of removing oil from the compressed air is very complicated due to the fact that oil in the compressed air exists in three stages viz liquid oil, oil/water emulsion and oil vapour.

Zero oil filter is designed to remove all three stages of oil in the compressed air. The particles of oil of different sizes impinge on and adhere to the surface of filter elements resulting in a gradual build-up of coalesced droplets.

These droplets are driven to the outside of the filter by the main air flow. When the oil comes from the outside of element it is stopped in a porous outlet covering the element. It then flows drops by the force of gravity down to the bottom of the element and the oil is then drained from the filter.

Zero oil filter assembly are considered to be ideal filter available for coalescing of liquid aerosols. Due to coalescing effect of filter media, the elements are self regenerative as far as the removal of liquids (Oil & Water) are concerned. Inherently this material is neither liquid adsorbent or absorbent, and consequently is superior in so far as retention of its original properties is concerned. Zero oil Primary filter are quite hydrophobic and water tends to form on fibers in droplet form rather as a film, a condition which is favourable to continuing filtration efficiency. Unfortunately, neither any material is oleophobic and oil will form as a film in Zero oil secondary and final stage increasing their effective outlet diameter on filter media. Allowance for this diameter increase, which is rather minimal, can be made and this film of oil will not appreciably detract from filtration efficiency once the filter media has been wetted and preferred to change / replace urgently for continuation of process flow.



Extensive investigation and testing have established Zero oil filter assembly down to 0.01 micron diameter range usually yield the best results as a filter coalescing media.

The selection of filter is controlled by air handling capacity and filtration efficiency.

For a standard systems operating at 100 psig filter selection should be approached as follows.

- Determine maximum air flow at point of filtration i.e. The consumption of free air in standard cubic feet per min (SCFM) before compression.
- Determine the air quality required and the appropriate grade of filter. This should be a balance between performance and the adverse economics of shorter element life inherent in more efficient filters.

As a matter of principal, high efficiency Zero oil filters should always be installed downstream of a driner where used.



For detail enquiry please contact us :



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