

OIL-X Filter Range Compressed Air Purity Guarantee & Die-Cast Filter Housing Guarantee

The Parker OIL-X filter range has been designed to provide compressed air purity that meets or exceeds air purity classifications shown in all revisions of ISO8573-1, the international air quality standard

Water Separators – Grade WS

OIL-X Grade WS water separators provide reduction of bulk condensed water and liquid oil and their performance has been tested in accordance with ISO 12500-4:2009 & ISO8573-9:2004. Separation performance has been independently verified by Lloyds Register. When operated between 25 & 100% of rated flow, OIL-X Grade WS water separators will provide liquid separation efficiency between 92 & 100%, equivalent to ISO 8573-1 Class 8 for water. When liquids are present in the compressed air stream, OIL-X Grade WS water separators must be installed prior to coalescing filters to protect them from bulk liquid contamination.

Coalescing Filters – Grades AO & AA / Dry Particulate Filters – Grades AO (with manual drain) & AA (with manual drain)

OIL-X Grades AO & AA coalescing filters provide reduction of oil and water aerosols, and solid particulates. OIL-X Grades AO & AA dry particulate filters provide reduction of solid particulates only. Their performance has been tested in accordance with ISO 12500-1:2007 & ISO 8573-4:2019. Filtration performance has been independently verified by Lloyds Register. Coalescing and dry particulate filter performance is guaranteed for 12 months when sized, installed and operated in accordance with Parker recommendations. The filter performance guarantee can be extended by replacing the filter element and consumable parts annually.

Oil Vapour Reduction Filters – Grades OVR & ACS

OIL-X Grade OVR & OIL-X Grade ACS provide reduction of oil vapours and their performance has been tested in accordance with ISO 8573-5:2001 and independently verified by Lloyds Register. The lifetime of ACS filter elements is affected by the inlet oil vapour concentration, bulk oil, temperature, relative humidity or dewpoint of the compressed air and compressor oil changes and will vary from system to system. For plant scale protection, critical applications or systems where frequent element changes are not possible, Parker OIL-X Grade OVR oil vapour reduction systems should be installed.

OIL-X Filtration ISO8573-1 Air Purity Classifications

Filter Combination	ISO8573-1:2010 Classification	Filter Combination	ISO8573-1:2010 Classification
AO	Class 2.-.3	AO (M)	Class 2.-.-
AO + AA	Class 1.-.2	AO (M) + AA (M)	Class 1.-.-
AO + AA + ACS	Class 1.-.1		
AO + AA + OVR	Class 3.-.0		
AO + AA + OVR + AO (M)	Class 2.-.0		
AO + AA + OVR + AO (M) + AA (M)	Class 1.-.0		

Die-Cast Aluminium Filter Housings

OIL-X filter housings are protected by an anti corrosion coating and a tough external epoxy coating. All housings are guaranteed for 10 years under normal recommended use.

Conditions

- OIL-X Filters are depth filters and are not absolute rated.
AO Grade Efficiency is 99.925%.
AA Grade Efficiency is 99.9999%* (* the limit of accurate measurement).
- Filtration performance has been tested and Independently validated in accordance with the requirements shown in the standards for oil aerosol (ISO 12500-1:2007), particulate (ISO 8573-4:2019) and oil vapour (ISO 8573-5:2001) and at a temperature of 21°C.
- The system pressure and operating temperature of the compressed air system will affect the oil carryover performance of a coalescing filter, and site conditions /test method must be accounted for during on site air quality testing.
- The lifetime of ACS oil vapour removal filter elements is affected by the pressure, oil concentration, relative humidity and temperature of the compressed air and will vary from system to system.
- Combinations of filters will be required to achieve the highest quality classifications required by ISO 8573-1:2010.
- AO filters should be protected from bulk liquid contamination using a grade WS water separator (installation dependant)
- AA filters must be preceded by an AO filter.
- ACS / OVR filters must be preceded by coalescing pre-filtration for oil / water aerosol treatment.
- AO Performance based upon a maximum inlet concentration of 40mg/m³ of oil aerosol at 21°C.
- AA Performance based upon a maximum inlet concentration of 10mg/m³ of oil aerosol at 21°C.
- ACS Performance based upon a maximum inlet concentration of 0.018mg/m³ of oil vapour at 21°C.
- OVR Performance based upon a maximum inlet concentration of 0.05mg/m³ of oil vapour at 21°C.
- Installation and operation must be in accordance with Parker recommendations.
- Only genuine Parker replacement parts may be used in any service/repair or all guarantees will be deemed invalid.
- Installation & service data must be supplied with any guarantee claim.
- Housing guarantee does not cover consumable parts, normal wear and tear nor any deterioration or defect due to improper use, negligence, accidental or malicious damage. Performance guarantee restricted to replacement of filter elements only and does not cover consequential losses.