

# Medical Cylinder Accessories

Clean Air Filter Package provides clean dry air for your cylinder drying package. This takes in your compressor air and filters the air to a class D breathing air.



Indicator for Filter replacement



### Adsorption Elements Features and Benefits Type D

**How The Elements Work**  
While mechanical filters are effective for removing airborne dust or solid particles, they are not as effective as adsorption elements. Adsorption elements, having an affinity for oil vapor molecules and with an extremely high surface area, coated by its regulatory structure, is used for this.

Molecular adsorption carbon elements are designed to maximize the adsorptive properties of the carbon. This is achieved by first passing the air through carbon granules, then steam flow, and then an adsorption space or adsorption space. The granules provide an extremely high surface area to adsorb and others arranged in a deep bed that increases dead bed gives the benefit of both efficiency and carries the air being passed through the carbon. As air flows through a layer of molecular adsorption granules, it is used.

Adsorption elements have a limited life and this is affected by many factors but primarily temperature. Generally, the higher the air temperature, the more of carbon there is present, for example at 104°F (40°C) there is more than ten times the adsorption than at 70°F (21°C). For this reason, adsorption carbon filters are best installed in the coolest possible system temperature. The Type C filter should always provide a Type D filter.

The typical life of an adsorption element is in the range of 1000-2000 hours at 70°F (21°C). Failure temperature is based on tests carried out on a Class D element and is, however, the best performance is provided by a routine "check".

Oil vapor has a distinct odor. The best separator and very effective way to check for oil vapor getting through the filter is to install a small liquid oil detector downstream. Periodically check the value and smell the air. The detector is extremely sensitive to oil vapor and at the first hint of the odor, change the element.

Type B Filter Element Specifications	Type C Filter Element Specifications	Type D Filter Element Specifications
<p><b>Efficiency</b> 99.97% when tested with 0.3 micron aerosol per Federal Standard 209A. Compatible with mineral and synthetic oils.</p> <p><b>Residual Oil</b> 0.5 ppm / at 100 temperature / pressure 70°F / 100 PSIG when indicated using infra red spectrophotometry based on the Pseudo 9011 procedure.</p> <p><b>Air Quality Class *</b> Conforms to ISO 8573 Class 3 or better</p> <p><b>Flow</b> Inlets to outside</p> <p><b>Filter Media</b> Rigid integrated borosilicate glass microfiber</p> <p><b>Support Structure</b> Inert 304 Stainless Steel support cylinder with outer polymeric sleeve</p> <p><b>End Caps</b> Glass fiber polyethylene material Initial Differential Pressure Dry — 1.5 PSID Initial Differential Pressure Wet — 2.5 PSID Flow range — 5 to 400 SCFM @ 100 PSIG</p> <p><b>Application</b> Installation as a conditioning prefilter for general purpose production or as a prefilter to a high efficiency collector.</p> <p><b>Appearance</b> White polypropylene resin sleeve with black end caps. * "W" Series Collecting Filter, with Type "W" oil indicator elements. All elements Type "W" Oil Indicator Elements Filter with Type "W" Oil Indicator Elements exceed ISO Class 1 for maximum particle size and concentration of solid contaminants, and exceed Class 3 in maximum oil content (ppm)."</p>	<p><b>Efficiency</b> 99.9999% when tested with 0.3 micron aerosol per ISO 9001/9994 (DOP) and according to Federal Standard 209A. Compatible with mineral and synthetic oils.</p> <p><b>Residual Oil</b> 0.01 ppm / at 100 temperature / pressure 70°F / 100 PSIG when indicated using infra red spectrophotometry based on the Pseudo 9011 procedure.</p> <p><b>Air Quality Class *</b> Conforms to ISO 8573, better than Class 1</p> <p><b>Flow</b> Inlets to outside</p> <p><b>Filter Media</b> Pure borosilicate glass microfiber with a mean strand diameter of 0.3 micron and a width of 0.5 microns. Contains no glass or resin.</p> <p><b>Support Structure</b> Inert and outer 304 Stainless Steel support cylinders.</p> <p><b>End Caps</b> Glass fiber polyethylene material Initial Differential Pressure Dry — 1.25 PSID Initial Differential Pressure Wet — 2.25 PSID Flow range — 5 to 400 SCFM</p> <p><b>Application</b> Installation as a prefilter for high efficiency collector for general purpose production, odor removal, removal of toxic vapors and for other applications. * "W" Series Collecting Filter, with Type "W" oil indicator elements. All elements Type "W" Oil Indicator Elements with Type "W" Oil Indicator Elements exceed ISO Class 1 for maximum particle size and concentration of solid contaminants, and exceed Class 1 in maximum oil content (ppm)."</p>	<p><b>Efficiency</b> Less than 0.001 ppm / at maximum remaining oil content (DOP) temperature / pressure of 70°F / 100 PSIG when indicated using infra red spectrophotometry based on the Pseudo 9011 procedure without the reduction vapors and odors.</p> <p><b>Air Quality Class *</b> Conforms to ISO 8573, better than Class 1</p> <p><b>Flow</b> Inlets to outside</p> <p><b>Filter Media</b> Low density fused activated carbon for adsorption odors, vapors and oils.</p> <p><b>Support Structure</b> Model 980 - MSB: Clear plastic housing with stainless steel end caps, integral in that flow. Model 983 - MSB: Inert and outer 304 Stainless Steel support sleeve cylinders.</p> <p><b>End Caps</b> Glass fiber polyethylene material Initial Differential Pressure Dry — 1.00 PSID Initial Differential Pressure Wet — 1.50 PSID Flow range — 5 to 400 SCFM</p> <p><b>Application</b> Installation after high efficiency collector for general purpose production, odor removal, removal of toxic vapors and for other applications. * "W" Series Collecting Filter, with Type "W" oil indicator elements. All elements Type "W" Oil Indicator Elements with Type "W" Oil Indicator Elements exceed ISO Class 1 for maximum particle size and concentration of solid contaminants, and exceed Class 1 in maximum oil content (ppm)."</p>

The PCT-MA is a medical cylinder attachment for our line of PCT-15 and 122 inverter/driers. The PCT-MA processes Medical E, D, and M-6 size cylinders (3.2" to 4.4" diameter, 11.75" to 25.25" tall) and matches the footprint of our GHH-6G-12MT-4 Multi-4 Port Test Head. 4 medical cylinders are processed in the same time it took to process 1 medical cylinder on the PCT-15 and 8 cylinders instead of 2 for the PCT-122. Cylinders can be stamped while clamped in the PCT-MA. The PCT-MA is attached or removed in less than 5 minutes.



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