Activated Carbon Filtration

CLEARPOINT®

activated carbon solutions for oil-free compressed air

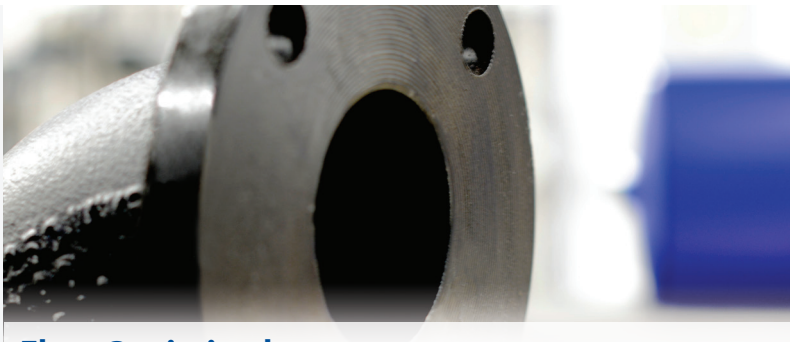
Truth in Compressed Air

BEKO

CLEARPOINT® Activated Carbon Filters

Oil-free Air

The pre-dried, laboratory grade activated carbon used in CLEARPOINT V begins adsorbing oil immediately upon start-up with no wait time.



Flow Optimized

The unique curved inlet design provides the lowest possible differential pressure to ensure maximum energy efficiency across the entire range.

Maximum Reliability

CLEARPOINT V vessels are highly optimized and engineered to factor in dynamic loads to the design to extend the lifetime of the unit, and your investment.

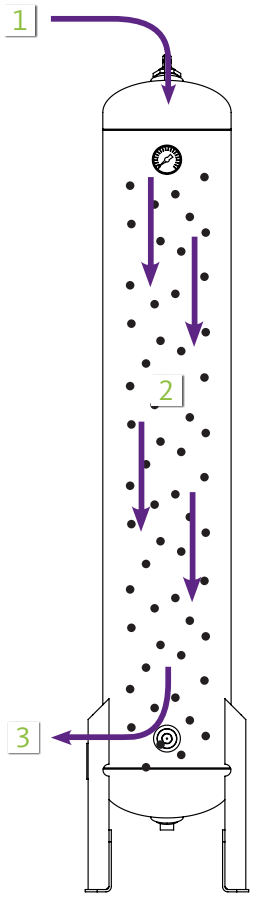
Comprehensive Line

With model sizes for applications from 80 to 2,800 scfm and up to 150 psig, our product line is comprehensive and highly competitive.

Maintenance

Engineered for ease of use with top and bottom access ports to make both draining and filling a simple, easy maintenance procedure.

How it Works



1. The filter housing has generously dimensioned, curved inlet and outlet connections to keep pressure drop to an absolute minimum when paired with existing pipework.

2. Compressed air flows through a bed of high-grade, tightly packed activated carbon. Due to the high degree of microporosity and small, low volume pores the activated carbon bed adsorbs compressor oil and contaminants as the compressed air comes into contact with the material.

3. The adsorption process allows for easy generation of oil-free compressed air that provides outlet oil vapor concentrations of less than 0.003 mg/m3 that is better than Class 1 according to ISO 8573-1 (at 68 °F and 14.5 psia)

CLEARPOINT® Activated Carbon Filters

During compressed air generation and distribution, contaminants are introduced to the air stream at various stages of the compressed air network. Compressed air filters, which come in various grades, remove these contaminants, as well as humidity and oil from the compressed air stream. This is a critical step as these can lead to a deterioration in quality, machine failure, or even to a loss of production or to products that must be disposed of.

Compare

Threaded V Line
Activated Carbon Cartridge Series

Tower V Line
Activated Carbon Tower Series

	Threaded V Line *Activated Carbon Cartridge Series*	Tower V Line *Activated Carbon Tower Series*
Flow Rates	80 - 330 scfm	100 - 2800 scfm
Maximum Operating Pressure	232 psig	150 psig
Standard Pipe Connection Sizes	½" - 1 ½" NPT	1" - 2 1/2" NPT, 2 1/2" - 4" Flange
Max. operating temperature	140 °F	120 °F
Available Options	Oil check indicator, Manual valve, Cover3More extended warranty	Cover3More extended warranty

Product Family

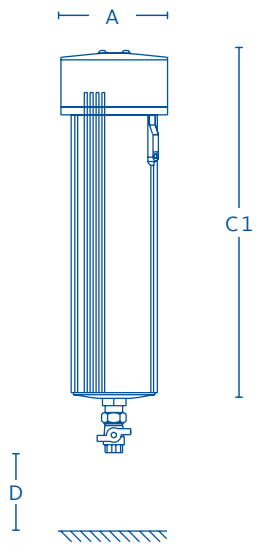
Threaded activated carbon cartridge filters

Activated carbon adsorption towers

CLEARPOINT® Threaded Activated Carbon Cartridge Filters

with manual ball valve

- With activated carbon filter cartridge
- Removal of solid particles up to 1 µm
- Residual oil vapor content down to .003 mg/m³
- CRN approved
- Max. inlet moisture: 30% (dryer required upstream)
- Max. operating pressure: 232 psig
- Max. operating temperature: 140 °F



CLEARPOINT®	S055	M010	M018
Pipe size (NPT)	½"	¾"	1 ½"
Flow rate (scfm)	80	160	330
Element Size	06V	10V	18V
Dimension data			
A (inches)	2.95	3.94	5.75
C1 (inches)	10.43	13.78	16.46
D (inches)	5.91	5.91	6.30
Weight (lbs)	2.65	4.63	9.92

ELEMENT GRADE	ELEMENT TYPE	MICRON RATING	OIL CARRYOVER	Δ PRESSURE (psid)
Grade V	Activated Carbon Cartridge	1 µm	.003 mg/m³	.54

Correction Factor

Operating Pressure (psig)	20	40	60	80	90	100	110	120	130	140	160	180	200	230
Correction Factor	.30	.48	.65	.82	.91	1.00	1.09	1.17	1.26	1.35	1.52	1.70	1.87	2.13