

The best protection for your compressed air dryer...



PNEUMATIC PRODUCTS

DESCRIPTION

- **Lowest penetration available - Less than .0014 ppmw oil**
- **Lowest saturated pressure drop - Less than 3.0 psi**
- **Performance numbers greater than 140 - low pressure drop**
- **Life numbers greater than 90 - dirt holding capacity**

The Super High Efficiency Coalescing Filters (SHECF) are designed to remove liquid aerosols from compressed air and gas streams. Located upstream of air dryers, coalescing filters intercept liquid aerosols and coalesce them into larger droplets which are easily removed by gravity. These larger droplets pass through the filter medium and drain into the filter housing sump. Periodically, the housing sump is drained by an automatic drain valve. The purpose of locating the coalescing filter upstream of the desiccant air dryer is to remove liquids which the dryer is unable to remove. In eliminating liquids from compressed air and gas streams, the SHECF prevents erosion and clogging of the air system and protects the desiccant from liquid fouling.

SUPER HIGH EFFICIENCY

The SHECF has been designed with optimized pore size and media thickness to insure maximum aerosol removal efficiency (minimum oil carry over) without reentrainment of coalesced liquids. Additionally, this proprietary design results in high energy efficiency (low saturated pressure drop).

Pressure drop across a coalescing filter costs money. At 100 scfm (100 psig, 100°F) a 1 pound pressure drop across an assembly costs \$78 per year (at 7¢/kwhr).

The performance of these coalescing filters has been verified through extensive testing. The evaluation of removal efficiency and energy efficiency is expressed as a performance number calculated as follows:

$$Pn = \frac{-100 \log B}{\Delta P}$$

Where Pn = performance number

B = average oil penetration

ΔP = saturated pressure drop at 100 spig, 100°F

The performance numbers are greater than 140 at nominal conditions while other manufacturers' products are typically below 50.

LONG CARTRIDGE LIFE

The life of the cartridge in service is equally important. Unlike liquid aerosols which pass through the medium and are removed from the air system, particulate contaminants accumulate on the filter causing increased pressure drop and loss of energy efficiency. Fixed fiber/fixed pore construction inhibits channeling and media migration. The SHECF's incorporate pleated media resulting in high surface area with high dirt holding capacity and extended cartridge life.

We have measured the dirt holding capacity of its HECF's in order to evaluate cartridge life. This is expressed as a life number calculated as follows:

$$Ln = \frac{DHC}{Q}$$

Where Ln = Life number

DHC = dirt holding capacity in milligrams

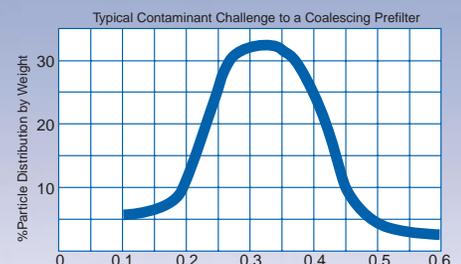
Q = rated flow of the assembly in scfm at 100 spig, 100°F

Our life numbers are greater than 90 while other cartridges are typically less than 30. They have 3-6 times the life of other cartridges in normal service.

PPC Super High Efficiency Coalescing Filter



Super High Efficiency Coalescers are available in several sizes. See specifications on back.



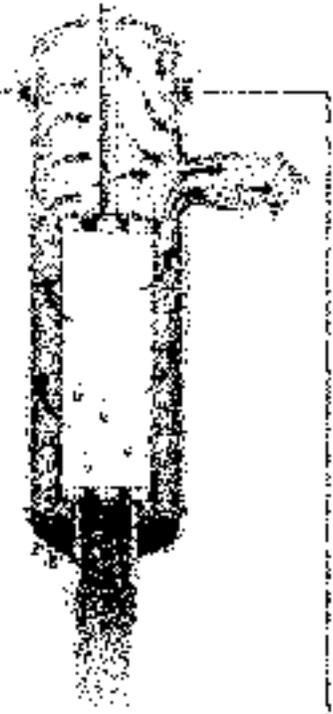
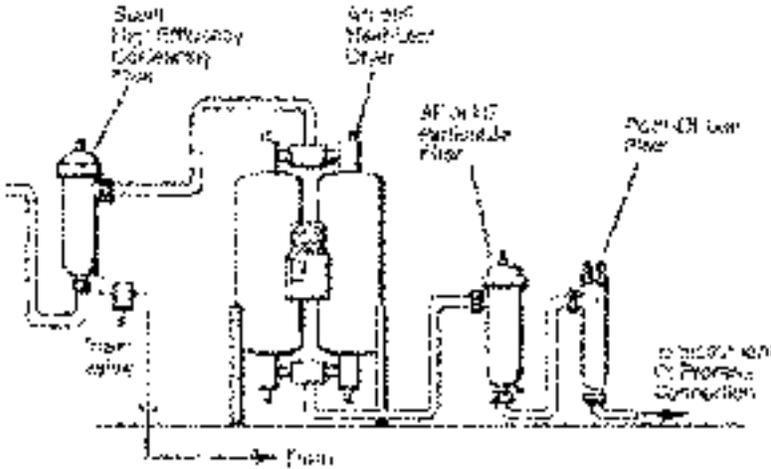
Product Information Sheet 102g

ILLUSTRATION

Super High Efficiency Coalescing cartridges have many advantages over cylindrical cartridges.

- Media pore size is optimized for high removal efficiency with low saturated pressure drop.
- Cartridge media is protected for high surface area and long life.
- A polyester filter base/yielding layer prevents liquid breakthrough.

PPC PURIFICATION SYSTEM



SPECIFICATIONS

Cartridge	2013573	2016921	2016884	2016886	2013574	2016882
Fluid Service	Air/Gas	Air/Gas	Air/Gas	Air/Gas	Air/Gas	Air/Gas
Flow Rate ¹	60 SCFM	100 SCFM	200 SCFM	400 SCFM	600 SCFM	1200 SCFM
Maximum ΔP (Cartridge)	50 psid	50 psid	50 psid	50 psid	50 psid	50 psid
Assembly Dry ΔP ¹	2.00 psid	0.90 psid	0.90 psid	0.90 psid	0.90 psid	1.00 psid
Assembly Saturated ΔP ¹	2.80 psid	1.80 psid	2.50 psid	2.40 psid	3.00 psid	2.60 psid
Maximum Temperature	160°F	160°F	160°F	160°F	160°F	160°F
Materials of Construction	Note: Stainless steel hardware available.					
¥ Medium	Epoxy coated glass fibers					
¥ Support Core	Plated carbon steel					
¥ Outer Cage	Plated carbon steel					
¥ Drain Layer	Polyester					
¥ End Caps	Plated carbon steel					
¥ Seals	Buna-N			Silicone		

¹-Single cartridge housing at 100 psig and 100°F

NOTE: For ordering information contact your local PPC Technical Representative.

Because of our policy of continuous improvement, some information, specifications and dimensions contained herein may be revised.

DISTRIBUTED BY:

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