

Beads are better

The Emerson EK filter drier



Superior filtration for greater refrigeration protection

When it comes to the refrigeration systems you install and maintain, what matters most? It's keeping them running at peak efficiency. It's keeping your reputation intact and your customers satisfied. It's choosing superior filtration technology that delivers more reliable, longer-lasting protection from moisture and contaminants.

It's the kind of protection you can get only from Emerson, the industry leader and the Emerson EK filter drier.

Beaded means better

The Emerson EK filter drier provides measurably superior filtration of contaminants, drying of the refrigerant, and removal of acids versus any other filter drier on the market, making it ideal for both the refrigerants of today and tomorrow.

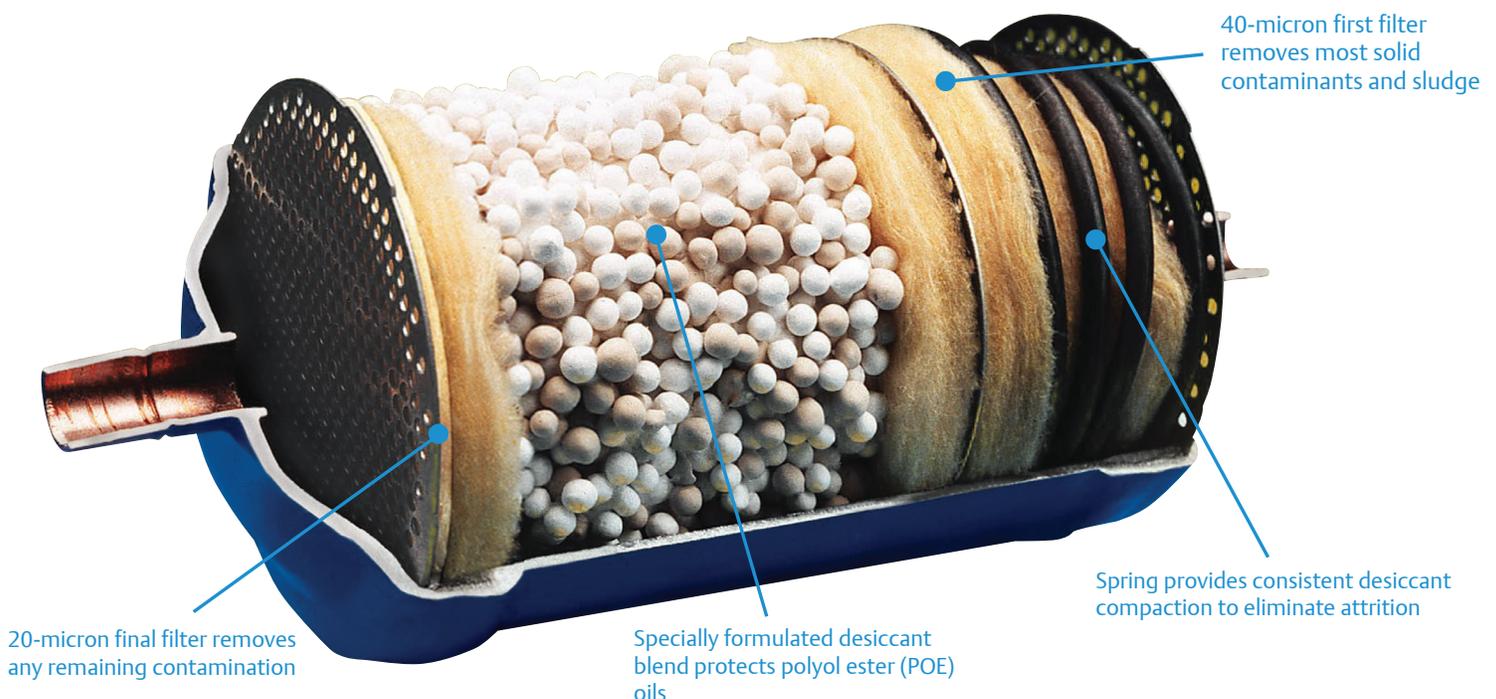
The difference is that synthetic polyol ester (POE) oils are protected from contaminants by the unique beaded desiccants. POE oils adsorb up to 20 times more moisture than ordinary mineral oils. The compacted bead design allows the full surface area of the desiccant to be utilized. So if moisture reaches the Emerson EK filter drier, it is quickly adsorbed and removed before acids can form - which means your systems will have less corrosion.

Superior from the inside out

The Emerson EK filter drier is buffered by an initial 40-micron fiberglass filter to remove most of the solid contaminants and sludge, and a 20-micron final filter to remove any remaining contamination. This ensures that the refrigeration system will stay cleaner, longer than ever before, with a minimal pressure drop in the filter drier.

The future of filtration

With the industry shifting to higher-pressure, environmentally friendly refrigerants, it's vital to use a filter drier that has operational flexibility. The Emerson EK filter drier delivers. Regardless of the refrigerant,





What are POE oils?

Polyol ester (POE) oils are created by a reaction between ester acids and alcohol where the by-product is a POE lubricant and water. POE oils adsorb up to 20 times more moisture than ordinary mineral oils.

the Emerson EK filter drier has a variety of models to meet all your filtration needs. This is even more important in HFC systems due to the greater solvency of POE oils which results in more circulation of dirt and debris particles within the system. These particles need to be removed to protect critical components and the Emerson EK filter drier has the best capacity and efficiency available on the market.

Technology designed to keep your reputation intact

Your customers depend on you to deliver the best. The best technology. The best service. The best protection. With Emerson you can deliver the best every time. Contractors around the world have turned to Emerson for the ultimate refrigeration and air conditioning solutions, all reinforced by unwavering customer support. The Emerson EK filter drier gives your customers' refrigeration systems increased protection, which gives you peace of mind. Choose Emerson, because after all, your reputation is worth it.

The bead beats the block

Emerson Compacted Bead		Competitor Block style
75/25	Desiccant Mix	75/25
20 microns	Filtration Size	40 microns
13 grams	Filtration Capacity	< 10 grams
99.9%	Filtration Efficiency	< 90%

Calculations based on 16 cu. in. drier

The Emerson EK provides best-in-class filtration

Your filtration connection

The Emerson EK filter drier and all the essential Emerson products are conveniently available at wholesalers worldwide. For help with correctly sizing a filter drier to meet your system requirements go to Emerson.com/acr-product-selector



Specifications

Desiccant blend:

Optimized for use with HFC refrigerants and POE lubricants

Maximum working pressure:

680 psig, UL file number – SA 3124

Absolute filtration: 20 microns

The Emerson EK filter drier is recommended by Emerson Climate Technologies, Inc. for HFCs, such as R-404A and R-410A.

(Source: Emerson Climate Technologies Application Engineering Bulletin AE-1297)



About Emerson

Emerson (NYSE: EMR), headquartered in St. Louis, Missouri (USA), is a global technology and engineering company providing innovative solutions for customers in industrial, commercial, and residential markets. Our Emerson Automation Solutions business helps process, hybrid, and discrete manufacturers maximize production, protect personnel and the environment while optimizing their energy and operating costs. Our Emerson Commercial and Residential Solutions business helps ensure human comfort and health, protect food quality and safety, advance energy efficiency, and create sustainable infrastructure. For more information visit [Emerson.com](https://www.emerson.com)

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