

# Beads are better

*The Copeland 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 Copeland, the industry leader and the Copeland EK filter drier.

### ***Beaded means better***

The Copeland 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 Copeland 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***

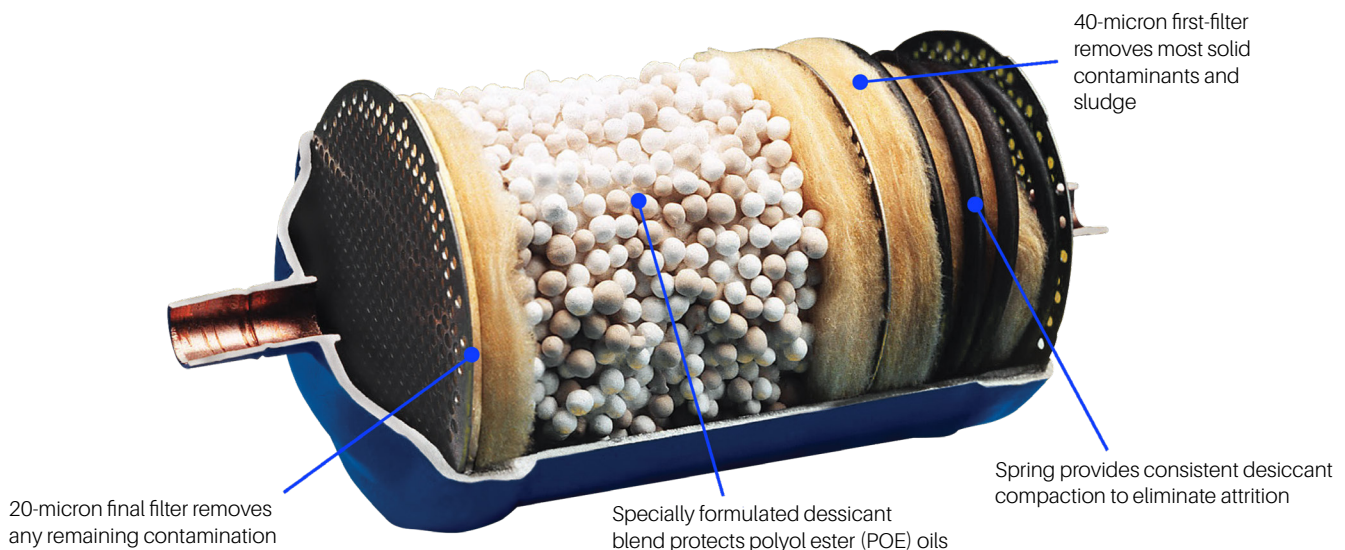
The Copeland EK filter drier is buffered by an initial 40-micron fiberglass filter to remove most of the solid contaminants and sludge, and a 20-micron final filter to

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 Copeland EK filter drier delivers.

Regardless of the refrigerant, the Copeland 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 Copeland EK filter drier has the best capacity and efficiency available on the market.







## What are POE oils?

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

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

## The bead beats the block

Copeland 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 Copeland EK provides best-in-class filtration

## Your filtration connection

The Copeland EK filter drier and all the essential Copeland products are conveniently available at wholesalers worldwide.



## 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 Copeland EK filter drier is recommended for HFCs, such as R-404A and R-410A.

(Source: Copeland Application Engineering Bulletin AE-1297)







### ***About Copeland***

Copeland is a global leader in sustainable heating, cooling, refrigeration and industrial solutions. We help commercial, industrial, refrigeration and residential customers reduce their carbon emissions and improve energy efficiency. We address issues like climate change, growing populations, electricity demands and complex global supply chains with innovations that advance the energy transition, accelerate the adoption of climate friendly low GWP (Global Warming Potential) and natural refrigerants, and safeguard the world's most critical goods through an efficient and sustainable cold chain. We have over 18,000 employees, with feet on the ground in 50 countries - a global presence that makes it possible to serve customers wherever they are in the world and meet challenges with scale and speed. Our industry-leading brands and diversified portfolio deliver innovation and technology proven in over 200 million installations worldwide. Together, we create sustainable solutions that improve lives and protect the planet today and for future generations.

To learn more, visit [copeland.com](https://copeland.com)

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