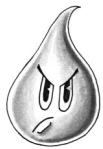


Filter-Drier Basics

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The basic function of a liquid line filter-drier is to remove moisture, acids and harmful sized particles from a refrigeration system. Experience has shown this to be especially important in systems that employ POE lubricant.

Parker Filter-Driers are designed to remove these contaminants from the system before harm can occur.



Removes Moisture - Moisture is an important factor in the formation of acids, sludge, copper plating and corrosion.

Removes Dirt - Numerous metallic contaminants such as cast iron dust, rust, steel and copper chips can damage compressor bearings and plug capillary tubes or expansion valves.



Removes Acids - Acid-forming chemical reactions can occur under certain conditions. As an example, at elevated temperatures, many refrigerants will react with oil to form acids. This is particularly true when moisture is present.

Removes Sludge and Varnish - Although the utmost precaution may be taken in the design and fabrication of a system, once in operation, unusually high discharge temperatures will cause the oil to break down and form sludge and varnish.



Parker Filter-Driers can be installed in a wide range of applications and come in sizes that include fractional tonnage to 100 ton capacity. The filter-drier can be hermetically sealed steel, copper, or replaceable core type with a steel shell. All have solid copper fittings for quality braze joints.



Review Parker CAT A-1 for more detail.