

## Why doesn't anyone make a "Bi-Flow Suction Line Filter-Drier"?

The SHORT answer is that this part is not necessary. The best way to understand this is to look at the two Diagrams below. The one TRUE Suction line in a Heat Pump flows refrigerant in one direction only. This is sometimes called the common suction line. This is where a Suction Line Filter-Drier (SLFD) should be installed if needed. Since the flow of gas is always in the direction towards the compressor, it is not necessary to have a Bi-Flow type Drier here.

If a Suction Line Filter-Drier is installed in the line between the indoor and outdoor unit, it can only be installed in the "cooling" cycle and should be removed after a short run time. Generally, a SLFD is a clean-up device and should be removed after the clean-up period.

Another reason to not have a "Bi-Flow SLFD" is that when the suction line during the cool cycle becomes the discharge line in the heating cycle, the gas is too hot to allow the desiccant to remove contaminants. Hot gas passing through desiccant would tend to "dry out" the desiccant and might allow any trapped contaminants to be re-released back into the system.

Parker steel SLFD's are available in 4 sizes from 8 to 54 Cu. In. with connections up to 1-5/8" ODF. Capacity ranges from 1/4 to 23 tons.

See Parker Catalog A-1 for complete details and specifications. Also visit [www.parker.com/coolparts](http://www.parker.com/coolparts) for the latest information on Parker product.

