



Filter-Driers - O.E.M. vs. Field Replacement

May 2014

Generally speaking, when a manufacturer installs a filter-drier on a piece of equipment, the engineers often (but not always) select the most economical product they feel will handle their application. Most manufacturers employ processes that minimize the amount of contaminants in the system. By analyzing their production methods, decisions are made based on filter-drier capability, dimensions, and cost. Often these decisions result in the selection of a smaller sized filter-drier, because they, are installed in a controlled environment.

When it becomes necessary to replace a filter-drier in the field, the likelihood of the presence of contaminants such as moisture, acid, sludge etc. is very real. The Filter-drier application tables are designed to recommend a filter-drier size that is sufficient to handle these problems, and also minimize pressure drop across the drier.

Since it is wise to err on the side of caution, the technician replacing a drier or suction filter in the field is wise to consider the recommendations on the filter-drier package or Catalog A-1 and A-1a rather than going by what is on the system.

TYPE	REFRIGERANT HOLDING CAPACITY (ounces)	RATINGS AT ARI STANDARD CONDITIONS			SELECTION RECOMMENDATIONS (Tons)		
		WATER CAPACITY DROPS AT 60 PPM		REFRIGERANT FLOW CAPACITY Tons at 1 psi ΔP	REFRIGERATION	AIR CONDITINING	
		75°F	125°F		Commercial & Low Temperature Equipment	O.E.M. Self Contained	Field Replacement
082	6.8*	250	230	1.84	1/2 thru 1-1/2	1 thru 5	1 thru 2
082S				2.12			
0825S				3.46			
083				4.45			
083S				5.02			
084				7.14			
084S				7.21			
162	10.8*	358	325	2.19	1-1/2 thru 3	2 thru 10	1-1/2 thru 5
162S				2.40			
1625S				4.03			
163				5.30			
163S				5.94			
164				9.05			
164S				9.83			
165				12.58			
165S				13.01			

Data is for R-22 refrigerant.
 * New style center weld shell. Ounces of refrigerant @100°F.

Reprinted / adapted from Parker Sporlan Bulletin 5-220 / 032013. Table information from Parker Catalog A-1 (2007).