

Dry All[®]

Full Range of HVAC&R Line Products



File No. SA33181



SUCTION LINE FILTER [DSF SERIES]

Introduction

Dry All Suction Line Filter is a HVAC&R Line Component used in Refrigeration and Air-conditioning systems to filter contaminants from the refrigerant within the suction line. It helps protect the compressor and other system components from debris and contaminants that could potentially damage the system.

Dry All Suction Line Filters can be used in various Refrigeration and Air-conditioning systems to serve several important purposes:

1. Contaminant Removal:

These filters are designed to remove contaminants, such as dirt, debris, metal particles, or other solid impurities, from the refrigerant flowing through the suction line. Contaminants can cause damage to compressor components, reducing efficiency and potentially causing system malfunctions.

2. Protecting Compressor:

One of the primary purposes of suction line filters is to protect the compressor from damage. Contaminants can wear down compressor parts, leading to decreased efficiency, increased energy consumption, and potentially costly repairs or premature failure of the compressor.

3. Maintaining System Efficiency:

By removing contaminants, suction line filters help maintain the efficiency of the refrigeration or air conditioning system. Clean refrigerant ensures better heat transfer within the system, allowing it to operate more effectively and maintain optimal performance.

4. Extending System Lifespan:

By preventing damage to critical components like the compressor and other system parts, the use of suction line filters can contribute to extending the overall lifespan of the HVAC/R system.

Difference between Suction Line Filter & Suction Line Filter Drier

1. Suction Line Filter:

A Dry All Suction line filter is designed primarily to remove contaminants, such as dirt, debris, and other solid particles, from the refrigerant flowing through the suction line. It is focused on maintaining the cleanliness of the refrigerant and protecting the compressor and other system components from damage caused by these contaminants.

2. Suction Line Filter Drier:

A suction line filter drier combines the functions of both a filter and a drier in one component. It not only removes contaminants from the refrigerant but also incorporates desiccant material to absorb moisture and trap acid, ensuring the refrigerant remains clean and dry.

The choice between the two depends on the specific requirements of the refrigeration or air conditioning system and the level of filtration and moisture removal needed.

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Features

1. Wide range of model and connection available
2. High efficiency micro Filter Fabric encased in a SS Frame for efficient contamination removal
3. Access Valves on both inlet / outlet side for pressure readings.
4. Braze connection made of Solid Copper for easy Brazing except few models marked*
5. Corrosion resistant Powder Coating finish

Specifications

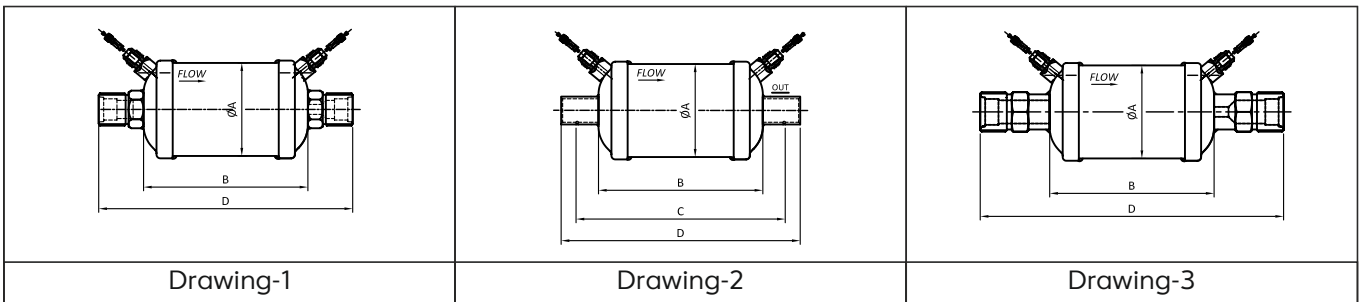
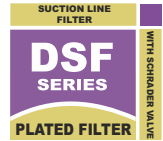
1. Filtration upto 40 microns
2. Maximum Working Pressure: 508psig (35.03 Bar)
3. UL certified / PED

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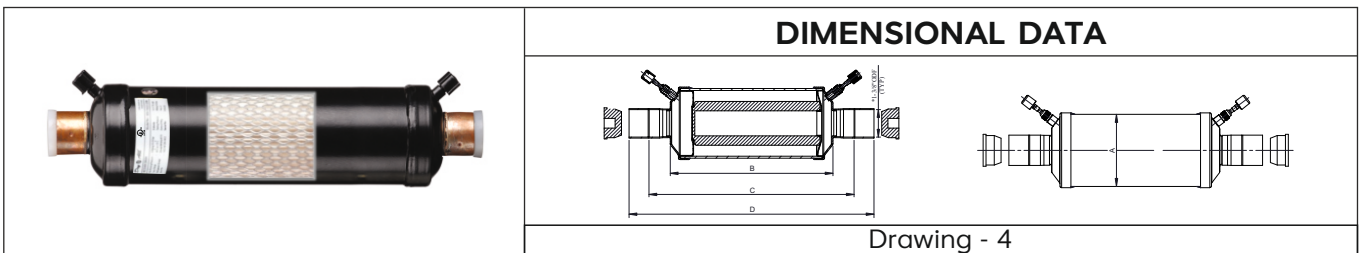
Image, Drawings & Model Available

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DIMENSIONAL DATA

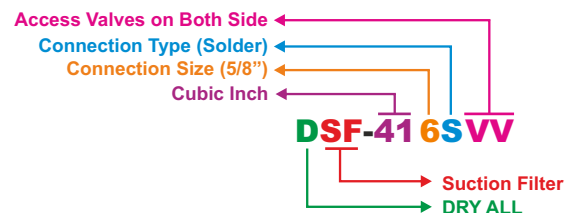


SR NO.	MODEL	CONNECTION TYPE (Inch)	OUTER DIA ØA		BODY LENGTH B		STOPPER TO STOPPER LENGTH C		OVERALL LENGTH D		REFER DRAWING NO.
			mm	inch	mm	inch	mm	inch	mm	inch	
1	DSF-163S	3/8"ODF	63.5	2.5	110	4.34	136.3	5.37	160	6.3	DRAWING -2
2	DSF-164S	1/2" ODF	63.5	2.5	110	4.34	136.3	5.37	160	6.3	DRAWING -2
3	DSF-165S	5/8" ODF	63.5	2.5	110	4.34	136.3	5.37	160	6.3	DRAWING -2
4	DSF-165ORN*	5/8" O RING	63.5	2.5	110	4.34	136.3	5.37	170	6.7	DRAWING -1
5	DSF-166ORN*	3/4" O RING	63.5	2.5	110	4.34	136.3	5.37	203	8	DRAWING -3
6	DSF-415S	5/8" ODF	88.9	3.5	159	6.25	189	7.44	209	8.2	DRAWING -2
7	DSF-416S	3/8"ODF	88.9	3.5	147	5.79	177	6.97	197	7.76	DRAWING -2
8	DSF-417S	7/8"ODF	88.9	3.5	139.5	5.49	170.5	6.71	201.5	7.93	DRAWING -2
9	DSF-419S	1"-1/8 ODF	88.9	3.5	162.5	6.40	193.5	7.62	224.5	8.84	DRAWING -2



SR NO.	MODEL	CONNECTION TYPE (Inch)	OUTER DIA ØA		BODY LENGTH B		STOPPER TO STOPPER LENGTH C		OVERALL LENGTH D		REFER DRAWING NO.
			mm	inch	mm	inch	mm	inch	mm	inch	
10	DSF-7511S	1-3/8" ODF	88.9	3.5	208	8.19	263	10.35	313	12.32	DRAWING NO.4
11	DSF-7513S	1-5/8" ODF	88.9	3.5	208	8.19	263	10.35	313	12.32	

- INTERNAL ASSEMBLY - FILTER
- MAXIMUM WORKING PRESSURE - 35 bar (508 psig)
- O RING TYPE CONNECTION ARE IN STEEL,NICKEL PLATED
- ODF TYPE CONNECTION IS IN COPPER
- * MARK CONNECTION STEEL, PLATED



Manufactured by:



Full Range of HVAC&R Line Products

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REV23-01-08-01