

SFD SUCTION LINE FILTER-DRIER

APPLICATION

- ☆ The standard compacted bead suction filter-drier for use after a burnout or when major work has been performed
- ☆ Suction line filter drier for moisture, acid and contaminant removal
- ☆ For use with CFC, HCFC and HFC refrigerants



FEATURES

- ☆ Solid copper fittings
- ☆ Dual access valves
- ☆ Corrosion resistant epoxy powder paint finish

SPECIFICATIONS

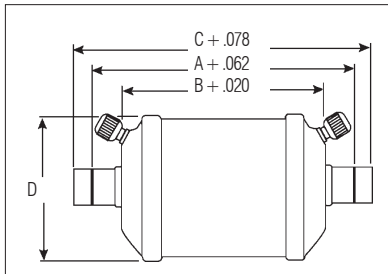
- ☆ Filtration: 40 microns
- ☆ Maximum working pressure: 400 psig
- ☆ UL file number: SA3124
- ☆ CSA file number: LR 100624
LR 32462

NOMENCLATURE

Example: SFD 13S5-VV

SFD	13	S	5	VV
Series	Unit Size (in cu. in.)	S= ODF Connections F = SAE	Connection Size (in 1/8")	Dual Access Valves

DIMENSIONAL DATA



ORDERING INFORMATION FOR SFD

PCN*	CATALOG NUMBER	CONNECTION SIZE	DIMENSIONS				SHIPPING WEIGHT LBS.		
			A	B	C	D			
064042	SFD 08F3-VV	3/8 SAE	N/A	3 3/8	5 1/2	3 1/8	2		
064044	SFD 08S3-VV	3/8 ODF	5 5/16		6 3/16				
064043	SFD 08F4-VV	1/2 SAE	N/A		5 3/4				
064045	SFD 08S4-VV	1/2 ODF	3 15/16		5				
064046	SFD 08S5-VV	5/8 ODF	3 29/32		5 5/32				
064047	SFD 08S6-VV	3/4 ODF	4 5/16		5 9/16				
060244	SFD 13F3-VV	3/8 SAE	—		5 1/2			3 11/16	3
060245	SFD 13S3-VV	3/8 ODF	3 31/32		4 27/32				
060246	SFD 13F4-VV	1/2 SAE	—		5 3/4				
060247	SFD 13S4-VV	1/2 ODF	3 15/16		4 15/16				
060248	SFD 13F5-VV	5/8 SAE	—	6 1/8					
060249	SFD 13S5-VV	5/8 ODF	3 29/32	5 5/32					
060250	SFD 13S6-VV	3/4 ODF	4	5 1/4					
060262	SFD 13S7-VV	7/8 ODF	4 1/4	5 3/4					
056505	SFD 27S6-VV	3/4 ODF	5 3/4	7	8 1/4	4 1/2			
060251	SFD 27S7-VV	7/8 ODF	6	7 1/2					
060252	SFD 27S9-VV	1 1/8 ODF	5 13/16	7 5/8					
060253	SFD 54S11-VV	1 3/8 ODF	10 5/16	12 1/4					
056504	SFD 54S13-VV	1 5/8 ODF	9 29/32	12 5/32					

Standard Product Offering

*Product Code Number

SEE PAGES 174 THROUGH 176 FOR FLOW CAPACITY DATA.

HERMETIC SUCTION LINE FILTER-DRIER FLOW CAPACITIES

DESCRIPTION	CONNECTIONS	FLOW CAPACITY IN TONS REFRIGERANT ^①							
		R-12				R-134a			
		EVAPORATOR TEMPERATURE (°F)							
		40	20	0	-20	40	20	0	-20
		Pressure Drop (PSI)							
2	1.5	1	0.5	2	1.5	1	0.5		
ASD 28S3-VV	3/8 ODF	1.1	0.6	0.5	0.5	1.1	0.6	0.5	0.4
ASD 28S4-VV	1/2 ODF	1.8	1.2	0.8	0.7	1.9	1.2	0.8	0.6
ASD 35F5-VV	5/8 SAE	2.1	1.4	1.1	0.9	2.2	1.4	1	0.8
ASD 35S5-VV	5/8 ODF	2.8	1.9	1.4	1.1	2.9	1.9	1.3	1
ASD 45S6-VV	3/4 ODF	3.8	2.5	1.8	1.2	3.9	2.5	1.7	1.1
ASD 45S7-VV	7/8 ODF	5.0	3.6	2.3	1.5	5.1	3.5	2.2	1.3
ASD 50S9-VV	1 1/8 ODF	7.1	5.0	3.2	1.8	7.3	4.9	3	1.6
ASD 75S11-VV	1 3/8 ODF	8.6	5.9	3.7	2.0	8.8	5.8	3.5	1.8
ASD 75S13-VV	1 5/8 ODF	9.0	6.2	3.9	2.1	9.3	6.1	3.7	1.9
ASF 28S3-VV	3/8 ODF	1.2	0.8	0.5	0.5	1.2	0.8	0.5	0.4
ASF 28S4-VV	1/2 ODF	1.9	1.3	0.9	0.8	2	1.3	0.9	0.7
ASF 35F5-VV	5/8 SAE	2.2	1.5	1.1	0.9	2.3	1.5	1	0.8
ASF 35S5-VV	5/8 ODF	3.2	2.2	1.6	1.4	3.3	2.2	1.5	1.2
ASF 45S6-VV	3/4 ODF	4.7	3.2	2.3	1.8	4.8	3.1	2.2	1.6
ASF 45S7-VV	7/8 ODF	6.5	4.8	3.3	1.9	6.7	4.7	3.1	1.7
ASF 50S9-VV	1 1/8 ODF	9.2	6.8	4.5	2.6	9.5	6.7	4.3	2.3
ASF 64S17-VV	2 1/8 ODF	25.3	18.3	12.6	7.2	26	18	12	6.4
ASF 75S11-VV	1 3/8 ODF	11.7	8.8	5.9	3.4	12	8.7	5.6	3
ASF 75S13-VV	1 5/8 ODF	13.6	9.7	6.6	3.8	14	9.5	6.3	3.4
ASK 165S-VV-HH	5/8 ODF	1.9	1.4	0.8	0.6	2	1.4	0.8	0.5
ASK 166S-VV-HH	3/4 ODF	2.4	1.7	1.1	0.7	2.5	1.7	1	0.6
ASK 167S-VV-HH	7/8 ODF	2.6	1.8	1.2	0.7	2.7	1.8	1.1	0.6
ASK 306S-VV-HH	3/4 ODF	3.3	2.3	1.5	0.9	3.4	2.3	1.4	0.8
ASK 307S-VV-HH	7/8 ODF	3.5	2.5	1.6	0.9	3.6	2.5	1.5	0.8
ASK 309S-VV-HH	1 1/8 ODF	3.8	2.6	1.7	0.9	3.9	2.6	1.6	0.8
CSFD14S4-W	1/2 ODF	1.3	0.9	0.5	0.3	1.3	0.9	0.5	0.3
CSFD14S5-W	5/8 ODF	2.2	1.5	0.9	0.6	2.3	1.5	0.9	0.5
CSFD14S6-W	3/4 ODF	3.0	2.1	1.3	0.8	3.1	2.1	1.3	0.7
CSFD14S7-W	7/8 ODF	3.2	2.2	1.5	0.8	3.3	2.2	1.4	0.7
CSFD14S9-W	1 1/8 ODF	4.4	3.1	1.9	1.1	4.5	3	1.8	1
SFD 13F3-VV	3/8 SAE	0.7	0.4	0.2	0.1	0.7	0.4	0.2	0.1
SFD 13S3-VV	3/8 ODF	1.3	0.8	0.5	0.2	1.3	0.8	0.5	0.2
SFD 13F4-VV	1/2 SAE	1.5	1.0	0.6	0.3	1.5	1	0.6	0.3
SFD 13S4-VV	1/2 ODF	2.2	1.5	1.1	0.6	2.3	1.5	1	0.5
SFD 13F5-VV	5/8 SAE	2.4	1.7	1.2	0.7	2.5	1.7	1.1	0.6
SFD 13S5-VV	5/8 ODF	3.0	2.1	1.4	0.8	3.1	2.1	1.3	0.7
SFD 13S6-VV	3/4 ODF	4.0	2.7	1.8	1.0	4.1	2.7	1.7	0.9
SFD 13S7-VV	7/8 ODF	4.3	3.1	2.0	1.1	4.4	3	1.9	1
SFD 27S6-VV	3/4 ODF	4.0	2.7	1.8	1.0	4.1	2.7	1.7	0.9
SFD 27S7-VV	7/8 ODF	4.6	3.2	2.0	1.1	4.7	3.1	1.9	1
SFD 27S9-VV	1 1/8 ODF	5.1	3.5	2.1	1.1	5.2	3.4	2	1
SFD 54S11-VV	1 3/8 ODF	4.4	2.9	1.8	1.0	4.5	2.9	1.7	0.9
SFD 54S13-VV	1 5/8 ODF	4.5	3.1	1.9	1.0	4.6	3	1.8	0.9

①All ratings in accordance with ARI Standard 730-86.

②Example: 1.0 tons x 3.5 = 3.5 kW

HERMETIC SUCTION LINE FILTER-DRIER FLOW CAPACITIES

DESCRIPTION	CONNECTIONS	FLOW CAPACITY IN TONS REFRIGERANT ^①														
		R-22					R-407C					R-410A				
		EVAPORATOR TEMPERATURE (°F)														
		40	20	0	-20	-40	40	20	0	-20	-40	40	20	0	-20	-40
		Pressure Drop (PSI)														
3	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5		
ASD 28S3-VV	3/8 ODF	2.3	1.3	0.9	0.6	0.5	2.6	1.5	1.1	0.7	0.7	1.6	0.9	0.6	0.4	0.3
ASD 28S4-VV	1/2 ODF	3.8	2.1	1.4	1	0.8	4.2	2.4	1.7	1.2	1.1	2.6	1.4	1.0	0.7	0.5
ASD 35F5-VV	5/8 SAE	4.4	2.5	1.7	1.2	0.9	4.9	2.9	2.1	1.5	1.2	3.0	1.7	1.2	0.8	0.6
ASD 35S5-VV	5/8 ODF	5.8	3.2	2.2	1.6	1	6.5	3.7	2.7	2.0	1.3	4.0	2.2	1.5	1.1	0.7
ASD 45S6-VV	3/4 ODF	7	4.6	3.2	2	1.1	7.8	5.3	3.9	2.5	1.5	4.8	3.2	2.2	1.3	0.7
ASD 45S7-VV	7/8 ODF	9.2	6	4.1	2.6	1.4	10	6.9	4.9	3.2	1.9	6.3	4.1	2.8	1.7	0.9
ASD 50S9-VV	1 1/8 ODF	13.2	8.5	5.7	3.5	1.8	15	9.7	6.9	4.3	2.4	9.0	5.8	3.9	2.3	1.2
ASD 75S11-VV	1 3/8 ODF	16.2	10.2	6.7	4	2	18	12	8.1	4.9	2.7	11	7.0	4.6	2.7	1.3
ASD 75S13-VV	1 5/8 ODF	17.3	10.7	7	4.2	2.1	19	12	8.4	5.2	2.8	12	7.3	4.8	2.8	1.4
ASF 28S3-VV	3/8 ODF	2.4	1.3	0.9	0.7	0.5	2.7	1.5	1.1	0.9	0.7	1.6	0.9	0.6	0.5	0.3
ASF 28S4-VV	1/2 ODF	4.1	2.3	1.6	1.2	0.9	4.6	2.6	1.9	1.5	1.2	2.8	1.6	1.1	0.8	0.6
ASF 35F5-VV	5/8 SAE	4.7	2.6	1.8	1.3	1	5.2	3.0	2.2	1.6	1.3	3.2	1.8	1.2	0.9	0.7
ASF 35S5-VV	5/8 ODF	6.6	3.7	2.6	1.9	1.6	7.3	4.2	3.1	2.3	2.1	4.5	2.5	1.8	1.3	1.0
ASF 45S6-VV	3/4 ODF	9.8	5.5	3.7	2.7	2.2	11	6.3	4.5	3.3	3.0	6.7	3.8	2.5	1.8	1.4
ASF 45S7-VV	7/8 ODF	12	8	5.6	3.6	3	13	9.2	6.8	4.4	4.0	8.2	5.5	3.8	2.4	2.0
ASF 50S9-VV	1 1/8 ODF	19	12	8.2	4.9	2.6	21	14	9.9	6.0	3.5	13	8.2	5.6	3.3	1.7
ASF 64S17-VV	2 1/8 ODF	41	27	19	12	6.9	46	31	23	15	9.3	28	19	13	8.0	4.5
ASF 75S11-VV	1 3/8 ODF	24	15	10	6.5	3.2	27	17	12	8.0	4.3	16	10	6.8	4.3	2.1
ASF 75S13-VV	1 5/8 ODF	15	16	11	6.7	3.3	17	18	13	8.3	4.4	10	11	7.5	4.5	2.2
ASK 16S-VV-HH	5/8 ODF	3.4	2.1	1.4	0.9	0.4	3.8	2.4	1.7	1.1	0.5	2.3	1.4	1.0	0.6	0.3
ASK 16S-VV-HH	3/4 ODF	4.2	2.6	1.7	1	0.5	4.7	3.0	2.1	1.2	0.7	2.9	1.8	1.2	0.7	0.3
ASK 16S-VV-HH	7/8 ODF	4.6	2.8	1.9	1.1	0.6	5.1	3.2	2.3	1.4	0.8	3.1	1.9	1.3	0.7	0.4
ASK 30S-VV-HH	3/4 ODF	5.5	3.5	2.3	1.4	0.8	6.1	4.0	2.8	1.7	1.1	3.8	2.4	1.6	0.9	0.5
ASK 30S-VV-HH	7/8 ODF	6.1	3.8	2.5	1.5	0.8	6.8	4.4	3.0	1.9	1.1	4.2	2.6	1.7	1.0	0.5
ASK 30S-VV-HH	1 1/8 ODF	6.5	4	2.6	1.6	0.8	7.2	4.6	3.1	2.0	1.1	4.4	2.7	1.8	1.1	0.5
CSFD14S4-VV	1/2 ODF	2	1.3	0.9	0.6	0.3	2.2	1.5	1.1	0.7	0.4	1.4	0.9	0.6	0.4	0.2
CSFD14S5-VV	5/8 ODF	3.6	2.4	1.6	1	0.5	4.0	2.8	1.9	1.2	0.7	2.5	1.6	1.1	0.7	0.3
CSFD14S6-VV	3/4 ODF	4.9	3.2	2.2	1.4	0.7	5.5	3.7	2.7	1.7	0.9	3.3	2.2	1.5	0.9	0.5
CSFD14S7-VV	7/8 ODF	5.2	3.4	2.3	1.5	0.8	5.8	3.9	2.8	1.9	1.1	3.6	2.3	1.6	1.0	0.5
CSFD14S9-VV	1 1/8 ODF	7	4.6	3.1	2	1	7.8	5.3	3.7	2.5	1.3	4.8	3.2	2.1	1.3	0.7
SFD 13F3-VV	3/8 SAE	1.4	0.8	0.4	0.2	0.1	1.6	0.9	0.5	0.2	0.1	1.0	0.5	0.3	0.1	0.1
SFD 13S3-VV	3/8 ODF	2.2	1.3	0.8	0.5	0.2	2.4	1.5	1.0	0.6	0.3	1.5	0.9	0.5	0.3	0.1
SFD 13F4-VV	1/2 SAE	2.4	1.6	1.1	0.7	0.4	2.7	1.8	1.3	0.9	0.5	1.6	1.1	0.7	0.5	0.3
SFD 13S4-VV	1/2 ODF	3.5	2.3	1.6	1	0.6	3.9	2.6	1.9	1.2	0.8	2.4	1.6	1.1	0.7	0.4
SFD 13F5-VV	5/8 SAE	3.7	2.4	1.6	1	0.6	4.1	2.8	1.9	1.2	0.8	2.5	1.6	1.1	0.7	0.4
SFD 13S5-VV	5/8 ODF	4.9	3.2	2.2	1.4	0.8	5.5	3.7	2.7	1.7	1.1	3.3	2.2	1.5	0.9	0.5
SFD 13S6-VV	3/4 ODF	6.4	4.2	2.8	1.8	1	7.1	4.8	3.4	2.2	1.3	4.4	2.9	1.9	1.2	0.7
SFD 13S7-VV	7/8 ODF	7.2	4.6	3	1.9	1	8.0	5.3	3.6	2.3	1.3	4.9	3.2	2.0	1.3	0.7
SFD 27S6-VV	3/4 ODF	6.4	4.2	2.8	1.8	1	7.1	4.8	3.4	2.2	1.3	4.4	2.9	1.9	1.2	0.7
SFD 27S7-VV	7/8 ODF	7.5	4.8	3.2	2	1.1	8.3	5.5	3.9	2.5	1.5	5.1	3.3	2.2	1.3	0.7
SFD 27S9-VV	1 1/8 ODF	8.5	5.4	3.5	2.1	1.1	9.5	6.2	4.2	2.6	1.5	5.8	3.7	2.4	1.4	0.7
SFD 54S11-VV	1 3/8 ODF	7.3	4.6	3	1.8	1	8.1	5.3	3.6	2.2	1.3	5.0	3.2	2.0	1.2	0.7
SFD 54S13-VV	1 5/8 ODF	7.4	4.7	3.2	2	1	8.2	5.4	3.9	2.5	1.3	5.1	3.2	2.2	1.3	0.7

①All ratings in accordance with ARI Standard 730-86.

②For 2 PSI ΔP. Multiply values by 1.4
Example: 1.0 tons x 3.5 = 3.5 kW

HERMETIC SUCTION LINE FILTER-DRIER FLOW CAPACITIES

DESCRIPTION	CONNECTIONS	FLOW CAPACITY IN TONS REFRIGERANT ^① For kW, Multiply Tons by 3.5 ^②									
		R-502					R-404A/507				
		EVAPORATOR TEMPERATURE (°F)									
		40	20	0	-20	-40	40	20	0	-20	-40
		Pressure Drop (PSI)									
3	2	1.5	1	0.5	3	2	1.5	1	0.5		
ASD 28S3-VV	3/8 ODF	2.2	1.1	0.7	0.5	0.3	2.1	1.1	0.7	0.5	0.3
ASD 28S4-VV	1/2 ODF	3.7	1.8	1.1	0.7	0.5	3.6	1.8	1.1	0.7	0.5
ASD 35F5-VV	5/8 SAE	4.2	2.1	1.3	0.9	0.6	4.1	2.1	1.3	0.9	0.6
ASD 35S5-VV	5/8 ODF	5.6	2.8	1.7	1.1	0.8	5.4	2.8	1.7	1.1	0.8
ASD 45S6-VV	3/4 ODF	6.6	3.7	2.5	1.5	0.9	6.4	3.7	2.5	1.6	1
ASD 45S7-VV	7/8 ODF	7.7	4.8	3.3	1.9	1.0	7.5	4.8	3.3	2	1.1
ASD 50S9-VV	1 1/8 ODF	11	6.9	4.6	2.7	1.3	11	6.9	4.6	2.8	1.4
ASD 75S11-VV	1 3/8 ODF	14	8.4	5.4	3.1	1.5	14	8.4	5.4	3.2	1.6
ASD 75S13-VV	1 5/8 ODF	15	8.9	5.7	3.3	1.6	15	8.9	5.7	3.4	1.7
ASF 28S3-VV	3/8 ODF	2.3	1.1	0.7	0.5	0.3	2.2	1.1	0.7	0.5	0.3
ASF 28S4-VV	1/2 ODF	3.9	2.0	1.2	0.8	0.6	3.8	2	1.2	0.8	0.6
ASF 35F5-VV	5/8 SAE	4.5	2.3	1.4	0.9	0.7	4.4	2.3	1.4	0.9	0.7
ASF 35S5-VV	5/8 ODF	6.3	3.2	2.0	1.4	0.9	6.1	3.2	2	1.4	1
ASF 45S6-VV	3/4 ODF	9.4	4.7	2.9	1.8	1.3	9.1	4.7	2.9	1.9	1.4
ASF 45S7-VV	7/8 ODF	10	6.3	4.5	2.7	1.4	9.8	6.3	4.5	2.8	1.5
ASF 50S9-VV	1 1/8 ODF	16	10	6.6	3.9	1.9	16	10	6.7	4	2
ASF 64S17-VV	2 1/8 ODF	36	23	15	9.5	4.9	35	23	15	9.8	5.2
ASF 75S11-VV	1 3/8 ODF	21	13	8.2	4.9	2.4	20	13	8.3	5.1	2.6
ASF 75S13-VV	1 5/8 ODF	22	13	8.3	5.0	2.5	21	13	8.4	5.2	2.7
ASK 165S-VV-HH	5/8 ODF	3.3	1.9	1.2	0.8	0.3	3.2	1.9	1.2	0.8	0.3
ASK 166S-VV-HH	3/4 ODF	4.0	2.4	1.6	0.9	0.5	3.9	2.4	1.6	0.9	0.5
ASK 167S-VV-HH	7/8 ODF	4.4	2.6	1.7	1.0	0.6	4.3	2.6	1.7	1	0.6
ASK 306S-VV-HH	3/4 ODF	5.2	3.2	2.2	1.2	0.7	5	3.2	2.2	1.2	0.7
ASK 307S-VV-HH	7/8 ODF	5.8	3.5	2.3	1.4	0.7	5.6	3.5	2.3	1.4	0.7
ASK 309S-VV-HH	1 1/8 ODF	6.2	3.7	2.4	1.4	0.7	6	3.7	2.4	1.5	0.7
CSFD14S4-VV	1/2 ODF	1.3	0.8	0.5	0.3	0.2	1.3	0.8	0.5	0.3	0.2
CSFD14S5-VV	5/8 ODF	2.7	1.7	1.1	0.7	0.3	2.6	1.7	1.1	0.7	0.3
CSFD14S6-VV	3/4 ODF	3.7	2.3	1.5	0.9	0.5	3.6	2.3	1.5	0.9	0.5
CSFD14S7-VV	7/8 ODF	4.0	2.4	1.6	1.0	0.5	3.9	2.4	1.6	1	0.5
CSFD14S9-VV	1 1/8 ODF	5.1	3.1	2.0	1.3	0.7	4.9	3.1	2	1.3	0.7
SFD 13F3-VV	3/8 SAE	1.3	0.7	0.4	0.2	0.1	1.3	0.7	0.4	0.2	0.1
SFD 13S3-VV	3/8 ODF	2.0	1.1	0.7	0.4	0.2	1.9	1.1	0.7	0.4	0.2
SFD 13F4-VV	1/2 SAE	2.2	1.3	0.9	0.5	0.3	2.1	1.3	0.9	0.5	0.3
SFD 13S4-VV	1/2 ODF	3.1	1.9	1.3	0.8	0.4	3	1.9	1.3	0.8	0.4
SFD 13F5-VV	5/8 SAE	3.3	2.0	1.4	0.9	0.5	3.2	2	1.4	0.9	0.5
SFD 13S5-VV	5/8 ODF	4.3	2.7	1.8	1.1	0.6	4.2	2.7	1.8	1.1	0.6
SFD 13S6-VV	3/4 ODF	5.8	3.5	2.3	1.4	0.7	5.6	3.5	2.3	1.4	0.7
SFD 13S7-VV	7/8 ODF	6.5	3.9	2.6	1.4	0.8	6.3	3.9	2.6	1.5	0.8
SFD 27S6-VV	3/4 ODF	5.8	3.5	2.3	1.4	0.7	5.6	3.5	2.3	1.4	0.7
SFD 27S7-VV	7/8 ODF	6.7	4.1	2.7	1.5	0.8	6.5	4.1	2.7	1.6	0.8
SFD 27S9-VV	1 1/8 ODF	7.7	4.6	3.0	1.6	0.8	7.5	4.6	3	1.7	0.9
SFD 54S11-VV	1 3/8 ODF	6.6	3.9	2.5	1.4	0.7	6.4	3.9	2.5	1.5	0.7
SFD 54S13-VV	1 5/8 ODF	6.7	4.0	2.6	1.5	0.8	6.5	4	2.6	1.6	0.8

①All ratings in accordance with ARI Standard 730-86.

②For 2 PSI ΔP. Multiply values by 1.4
Example: 1.0 tons x 3.5 = 3.5 kW