

Flow Capacity Chart

PART NO.	Connection SIZE & TYPE	Dimension in Inches		+40°F	+20°F	0°F	-20°F	-40°F	+40°F	+20°F	0°F	-20°F	-40°F
				R407C					R-502/R404A/R507				
		A B		Pressure Drop in psi									
				3	2	1.5	1	0.5	3	2	1.5	1	0.5
SSLD83	3/8 SAE	6 3/32	2 1/2	1	0.6	0.4	0.3	0.1	0.7	0.5	0.3	0.2	0.1
SSLD83S	3/8 ODF	5 7/16	2 1/2	1.4	0.9	0.6	0.4	0.2	1	0.7	0.5	0.3	0.1
SSLD84	1/2 SAE	6 11/32	2 1/2	2.3	1.5	1.1	0.6	0.3	1.8	1.1	0.8	0.5	0.3
SSLD84S	1/2 ODF	5 1/2	2 1/2	2.9	1.9	1.3	0.8	0.4	2.2	1.4	1	0.6	0.3
SSLD85	5/8 SAE	6 3/16	2 1/2	3.6	2.3	1.6	1	0.5	2.8	1.8	1.2	0.8	0.4
SSLD85S	5/8 ODF	5 3/4	2 1/2	4.1	2.7	1.8	1.2	0.6	3.1	2	1.3	0.8	0.4
SSLD164	1/2 SAE	7 1/8	2 1/2	2.5	1.6	1.1	0.7	0.4	1.9	1.2	0.8	0.5	0.3
SSLD165S	5/8 ODF	6 9/16	2 1/2	3.6	2.3	1.6	1	0.5	2.8	1.8	1.2	0.8	0.4
SSLD166	3/4 SAE	6 31/32	2 1/2						3.4	2.2	1.5	0.9	0.5
SSLD166S	3/4 ODF	6 31/32	2 1/2	4.4	2.9	1.9	1.3	0.6	3.4	2.2	1.5	0.9	0.5
SSLD167S	7/8 ODF	7 1/8	2 1/2						4.3	2.6	1.7	1	0.6
SSLD305	5/8 SAE	10 3/16	3	5	3.3	2.2	1.4	0.7	3.8	2.5	1.7	1	0.5
SSLD305S	5/8 ODF	9 7/32	3	4.6	3	2	1.3	0.6	3.6	2.3	1.5	1	0.5
SSLD307S	7/8 SAE	9 25/32	3	6.3	4.1	2.7	1.8	0.9	4.9	3.1	2.1	1.3	0.7
SSLD419S	1 1/8 ODF	9 15/16	3 1/2	9.1	5.9	4	2.5	1.3	6.9	4.5	3	1.9	1

All ratings in accordance with ARI standard 710-86



HP Series/Liquid Line Bi-Directional Heat Pump Driers

Features/Benefits

- 16 cubic inch drier in a 2 1/2" diameter shell
- Internal check valves allow flow and filtration in either direction.
- High moisture and acid removal
- Corrosion resistant epoxy powder paint finish
- Copeland approved for POE oils

Specifications

- Desiccant blend: 75% molecular sieve and 25% activated alumina (Bead).
- Filtration: 40 microns
- Maximum working pressure (MWP): 680 psig

Applications

- Bi directional liquid line filter driers for heat pump applications using CFC, HCFC and HFC refrigerants. Including R410A.

Nomenclature

Example: HP165S

HP	16	5	S
Series	Unit Size Cubic Inches (in 1/8)	Connection Size (Omit for SAE)	S=ODF Connection



HP CAPACITY TABLES

PART NO.	CONNECTION SIZE & TYPE	DIMENSIONS		FLOW CAPACITY TONS @ 1 PSI Δ P(1)(4)			WATER CAPACITY TONS (2) DROPS OF WATER (3)					
				(FOR KW, MULTIPLY TONS BY 3.5)			R-22		R-407C		R-410A	
		A	B	R-22	R-410A	R-407C	75°F	125°F	75°F	125°F	75°F	125°F
HP083	3/8 SAE	6.28	2.63	4.5	4.5	4.4						
HP083S	3/8 ODF	5.63	2.63	5.1	5.1	5						
HP084	1/2 SAE	6.53	2.63	6.4	6.4	6.3	159	144	106	79	85	75
HP84S	1/2 ODF	5.66	2.63	6.7	6.7	6.6						
HP163	3/8 SAE	6.97	2.63	4.6	4.6	4.5						
HP163S	3/8 ODF	6.31	2.63	5.2	5.2	5.1						
HP164	1/2 SAE	7.22	2.63	7.7	7.7	7.6	323	294	237	179	178	160
HP164S	1/2 ODF	6.34	2.63	8.1	8.1	7.9						
HP165	5/8 SAE	7.59	3.09	8.3	8.3	8.1						
HP165S	5/8 ODF	6.63	2.63	8.7	8.7	8.5						

(1) All ratings in accordance with ARI Standard 710-86.
86°F liquid refrigerant temperature.
5°F saturated vapor temperature
3.1 lbs./min./ton for R-134a
2.9 lbs./min./ton for R-22 and R-407C
4.0 lbs. min./ton for R-404A/507 and R-12
4.4 lbs./min./ton for R-502
2.7 lbs./min./ton for R-410A

(2) Water Capacities are based on: Equilibrium Point Dryness (EPD) of: 50 parts per million for R-134a, R404-A/507, R-410A and R-407C
60 parts per million for R-22
15 parts per million for R-12
30 parts per million for R-502

(3) 20 drops of water = 1 gram = 1 cc

(4) For 2 PSI Δ P, Multiply values by 1.4

HP CAPACITY TABLES

UNIT SIZE	FLOW CAPACITY - TONS @ 1 PSI		LIQUID REFRIGERANT HOLDING CAPACITY - Oz.						WATER HOLDING CAPACITY DROPS					
			R-22R		R-407		R-410A		R-22		R-407C		R-410A	
	R-22/R-410A	R-407C	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
163S	5.2	5.1												
164	6.6	6.5												
164S	7.4	7.3	10.1	9.1	9.6	8.5	9	7.6	161	141	125	87	91	55
165	8	7.8												
165S	8.3	8.1												

Driers

HERMETIC LIQUID LINE HP FILTER DRIERS

UNIT SIZE	REFRIGERATION, LOW TEMP & COMMERCIAL INSTALLATIONS			AIR CONDITIONING			
				FIELD REPLACEMENT & FIELD INSTALLATIONS		OEM: SELF CONTAINED EQUIPMENT	
	R-12/134A	R-22/407C/410A	R-404A/134A	R-12/134A	R-22/407C/410A	R-12/13A	R-22/407C
083, 083S	1	1	1	2	3	3	4
084, 084S	1.5	2	1	3	5	4	7
162, 162S	1	1.5	3/4	1	2	2	2 1/2
163, 163S	2	4	2	4	6	5	7 1/2
164, 164S	2	4	2	4	6	5	7 1/2
165, 165S	3	5	2 1/2	5	7 1/2	7 1/2	10

LIQUID REFRIGERANT HOLDING CAPACITY - OUNCES

UNIT SIZE	R-22		R-407C		R-410A	
	75°F	125°F	75°F	125°F	75°F	125°F
05	4.6	4.2	4.4	3.9	4.1	3.5
08	7.7	6.9	7.3	6.4	6.9	5.8
16	14.2	12.7	13.5	11.8	12.6	10.6
30	21.0	18.7	20.0	17.4	--	--

R-410A The HP filter-drier is UL listed for 680 PSIG maximum working pressure for all sizes.



SSG Series Moisture Indicators

Features/Benefits

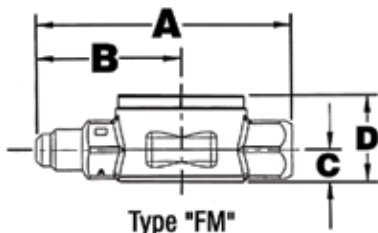
- Fully hermetic design
- 3% relative humidity indication compared to 10% paper indicators.
- Single indicator for all common refrigerants
- Accurate color calibration at low ppm levels and higher temperatures.
- Tri Color Coded
 - Blue = Dry optimal operation conditions, - Purple = Low levels of moisture indicated, - Pink = High levels of moisture detected
- Wide angle viewing high visibility window for ease of monitoring.
- All brass corrosion resistant body
- Solid copper fittings

Applications

- SUPCO's SSG is designed to provide an accurate method of determining the moisture content of a system's refrigerant.
- Unique 3% high accuracy moisture indicator for CFC, HCFC and HFC refrigerants, including R410A.

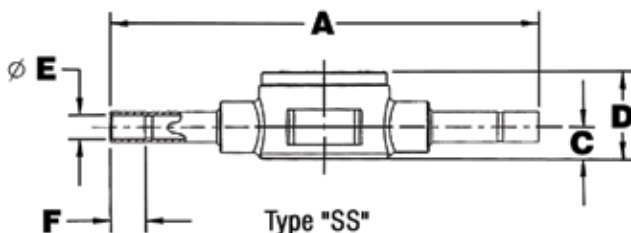
Specifications

- 3% relative humidity sensitivity
- Maximum working pressure (MWP): 680 psig



Type "FM"
Female Flare X Male Flare

PART NO.	CONNECTION SIZE & TYPE	A	B	C	D	E	F
SSGFM2	1/4 SAE	2.75 ± .03	1.19 ± .03	.34 ± .06	.937 ± .06		
SSGFM3	3/8 SAE	3.00 ± .03	1.31 ± .03	.47 ± .06	1.187 ± .06		
SSGFM4	1/2 SAE	3.22 ± .03	1.41 ± .03	.47 ± .06	1.187 ± .06		
SSGSS2	1/4 ODF	4.62 ± .10		.34 ± .06	.937 ± .06	.254 ± .002	.375
SSGSS3	3/8 ODF	4.62 ± .10		.34 ± .06	.937 ± .06	.379 ± .002	.402
SSGSS4	1/2 ODF	4.87 ± .10		.47 ± .06	1.187 ± .06	.504 ± .003	.500
SSGSS5	5/8 ODF	4.87 ± .10		.47 ± .06	1.187 ± .06	.629 ± .003	.625
SSGSS7	7/8 ODF	6.31 ± .10		.61 ± .06	1.500 ± .06	.879 ± .003	.750



Type "SS"
Tube Stub X Tube Stub

Nomenclature

Example: SSGSS3

SSG	S	3
Supco Sight Glass	Connection style Solder x Solder	Connection size (in 1/8)