

Air Conditioning & Refrigeration Controls

DRIERS

Sporlan Catch-All Liquid Line Filter-Driers



Features:

- Leakproof shell
- Solid copper sweat fittings
- Outlet safety filter
- A blend of desiccants for maximum moisture removal
- Lower end point dryness levels, Maximum working pressure: 650 psi
- Compatible with refrigerants 12, 22, 134a, 404A, 407C, 410A, 502, 507

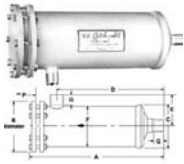


SOURCE 1 PART NO.	SPORLAN MODEL NO.	CONNECTION SIZE & TYPE	DIMENSIONS		SURFACE FILTERING AREA SQ. CM	HCFC-22			R410A			SHIP WT (LBS).	MLP \$
			BODY DIAMETER (IN.) B	LENGTH (IN.) A		WATER CAP. DROPS AT 60 PPM 25°C	WATER CAP. DROPS AT 60 PPM 50°C	REFRIG. FLOW CAP KW AT 0.07 BAR DP	WATER CAP. DROPS AT 50 PPM 25°C	WATER CAP. DROPS AT 50 PPM 50°C	REFRIG. FLOW CAP KW AT 0.07 BAR DP		
S1-400000	C-032	1/4 SAE	1.75	4.19	58	61	50	5.3	27	20	4.9	1.75	
S1-400001	C-033S	3/8 ODF	1.75	3.88	58	3.1	2.5	13.4	1.4	1.0	13.0	.50	
S1-400016	C-032-F	1/4 SAE	1.75	4.19	58	61	50	5.3	27	20	4.9	1.75	
S1-400032	C-032-FM	1/4 SAE	1.75	4.19	58	61	50	5.3	27	20	4.9	1.75	
S1-400052	C-032S	1/4 ODF	1.75	3.81	58	3.1	2.5	5.28	1.4	1.0	4.92	.50	
S1-400072	C-032-CAPT	1/4 SAE	1.75	4.19	58	61	50	5.3	27	20	4.9	1.75	
S1-400200	C-052	1/4 SAE	2.44	4.75	97	149	119	7.4	63	48	7.0	2.44	
S1-400210	C-0525S	5/16 ODF	2.44	4.38	97	7.3	6.0	12.0	3.2	2.4	11.6	.75	
S1-400249	C-052S	1/4 ODF	2.44	4.75	97	7.3	6.0	7.39	3.2	2.4	7.03	.75	
S1-400288	C-053	3/8 SAE	2.44	4.19	97	149	119	14.4	63	48	14.0	2.44	
S1-400329	C-053S	3/8 ODF	2.44	4.31	97	7.3	6.0	16.5	3.2	2.4	15.8	.75	
S1-400416	C-082	1/4 SAE	2.62	5.62	188	240	196	7.4	104	78	7.0	2.62	
S1-400429	C-082S	1/4 ODF	2.62	5.12	135	12.0	9.8	7.39	5.2	3.9	7.03	1.25	
S1-400435	C-083-S-HH	3/8 ODF	2.62	5.25	188	240	196	18.3	104	78	17.6	2.62	
S1-400437	C-084S	1/2 ODF	2.62	5.44	135	12.0	9.8	33.8	5.2	3.9	33.1	1.25	
S1-400472	C-083	3/8 SAE	2.62	6.06	188	240	196	15.8	104	78	15.4	2.62	
S1-400503	C-083-S	3/8 ODF	2.62	5.25	135	12	9.8	18.3	5.2	3.9	17.6	1.25	
S1-400536	C-084	1/2 SAE	2.62	6.31	188	240	196	28.4	104	78	27.7	2.62	
S1-401000	C-162	1/4 SAE	3.00	6.25	213	364	297	7.4	158	119	7.0	3.00	
S1-401018	C-162S	1/4 ODF	3.00	5.75	213	17.3	14.9	7.39	7.9	6.0	7.03	1.75	
S1-401021	C-163-S	3/8 ODF	3.00	5.88	213	17.3	14.9	18.3	7.9	6	17.6	1.75	
S1-401022	C-163-S-HH	3/8 ODF	3.00	5.88	213	364	297	18.3	158	119	17.6	3.00	
S1-401023	C-164-S	1/2 ODF	3.00	6.00	213	17.3	14.9	38.7	7.9	6	37.6	1.75	
S1-401025	C-164-S-HH	1/2 ODF	3.00	6.00	213	364	297	38.6	158	119	37.6	3.00	
S1-401031	C-167-S	7/8 ODF	3.00	6.93	213	364	297		158	119		3.00	
S1-401035	C-165-S	5/8 ODF	3.00	6.31	213	17.3	14.9	55.9	7.9	6	54.5	1.75	
S1-401048	C-163	3/8 SAE	3.00	6.75	213	364	297	15.8	158	119	15.4	3.00	
S1-401080	C-163-HH	3/8 SAE	3.00	6.75	213	364	297	15.8	158	119	15.4	3.00	
S1-401128	C-164	1/2 SAE	3.00	6.94	213	364	297	35.5	158	119	34.4	3.00	
S1-401216	C-165	5/8 SAE	3.00	7.25	213	364	297	42.5	158	119	41.1	3.00	
S1-401305	C-303S	3/8 ODF	3.00	8.88	342	34.8	28.4	38.7	15.1	11.4	37.6	3.50	
S1-401307	C-304-S	1/2 ODF	3.00	9.00	342	696	567	38.6	302	227	37.6	3.00	
S1-401313	C-306S	3/4 ODF	3.00	9.65	342	34.8	28.4		15.1	11.4		3.50	
S1-401317	C-309S	1-1/8 ODF	3.00	9.75	342	34.8	28.4		15.1	11.4		3.50	
S1-401360	C-304	1/2 SAE	3.00	9.88	342	696	567	35.5	302	227	34.4	3.00	
S1-401408	C-305	5/8 SAE	3.00	10.19	342	696	567	52.3	302	227	50.9	3.00	
S1-401449	C-305S	5/8 ODF	3.00	9.25	342	34.8	28.4	59.4	15.1	11.4	57.7	3.50	
S1-401505	C-307S	7/8 ODF	3.00	9.80	342	34.8	28.4	76.0	15.1	11.4	73.9	3.50	
S1-401609	C-414S	1/2 ODF	3.50	9.05	432	46.8	35.7	43.6	20.4	15.3	42.6	4.50	
S1-SV-401672	C-415-HH	5/8 ODF	3.50	10.25	432	936	763	61.4	407	305	60.0	4.50	
S1-401610	C-415-S	5/8 ODF	3.50	9.35	432	936	763	61.4	407	305	60.0	3.50	
S1-401618	C-419S	1-1/8 ODF	3.50	9.75	432	46.8	35.7	85.5	20.4	15.3	83.4	4.50	
S1-401656	C-415	5/8 SAE	3.50	10.25	432	936	763	55.5	407	305	54.1	3.50	
S1-401865	C-609-S	1-1/8 ODF	3.00	16.00	684	69.6	56.7	102.0	30.2	22.7	114.0	6.00	
S1-52636217000	C-417S	7/8 ODF	3.50	9.81	432	46.8	35.7	77.7	20.4	15.3	25.6	4.50	

Air Conditioning & Refrigeration Controls

DRIERS

Sporlan Replaceable Core Filter-Driers



Features:

- Molded porous core maximum water capacity
- Nut and bolt attachment at end plate allows for simple installation
- Tie-rod construction for easy core replacement
- All internal parts are plated steel
- Exterior shell painted to prevent corrosion



SOURCE 1 PART NO.	SPORLAN MODEL NO.	CONNECTION SIZE & TYPE	NO. OF CORES	CORE PART NO	VOLUME OF DESICCANT CU. IN.	A	B	C	D	E	F	G	P*	SHIP WT.	MLP \$
S1-402082	C-485-G	5/8 ODF	1	RCW-48, RCW-4864, OR RCW-4864-HH	48	9.15	6.00	5.00	5.92	3.50	4.75	0.50	7.50	12.00	
S1-402109	C-487-G	7/8 ODF	1	RCW-48, RCW-4864, OR RCW-4864-HH	48	9.30	6.00	5.00	6.07	3.72	4.75	.75	7.50	12.00	
S1-402152	C-489-G	1-1/8 ODF	1	RC-4864, RC-4864-HH OR RCW-48	48	9.50	6.00	5.00	6.37	3.78	4.75	.91	7.50	12.00	
S1-402159	C-4811-G	1-3/8 ODF	1	RC-4864, RC-4864-HH OR RCW-48	48	9.60	6.00	5.00	6.37	3.94	4.75	.97	7.50	12.00	

*P Indicates pull space required to change core.

Sporlan Filter Cores

Replaceable Cores



Features:

- Individually packaged in metal cans
- Fully activated
- Hermetically sealed
- Instructions on each can for easy installation
- Includes a triple gasket

RC-4864 – Activated Core - order as separate item - fits types C-480 thru C-19200 series shells. This is the standard core suitable for most installations in the liquid line or suction line.

RC-4864-HH – Activated Charcoal Core – order as separate item - fits types C-480 thru C-19200 series shells. This core should be used for wax removal on low temperature R-22 and R-502 systems, and for clean-up after hermetic motor burnout on all types of systems.

RCW-42 — High Water Capacity Core — Order as separate item — Fits ONLY shell types C-R424, C-R425, and CR427. Designed specially for use with POE oils. This core should be used on systems that have a ruptured water cooled condenser, or that have been exposed to the atmosphere, or for some reason have a high amount of moisture in the system.

SOURCE 1 PART NO.	SPORLAN PART NO.	CORE DIMENSIONS O.D. X LENGTH	SHIPPING WEIGHT (LBS.)	FOR USE WITH REPLACEABLE FILTER DRIER	MLP \$
S1-404360	RC-4864	3.74" X 5.50"	2.33	C-480 THRU C-19200	
S1-404380	RC-4864-HH	3.74" X 5.50"	2.33	C-480 THRU C-1200	
S1-404400	RC-10098	4.80 X 6.47	4.67	C-30000 AND C-40000	
S1-404401	RCW-48	3.74 X 5.5	28	C-480 THRU C-19200	
S1-404403	RCW-100	4.80 X 6.47	4.67	C-30000 AND C-40000	
S1-404404	RCW-42	3.18 X 6.00	2.20	C-R424, C-R425 AND C-R427	
S1-404420	RC-10098-HH	4.80 X 6.47	4.67	C-30000 AND C-40000	

Source 1 Bi-Flow Filter-Driers



Features:

- Specifically designed for heat pump or reverse cycle application
- External check valves are not required since they are incorporated within the filter drier shell
- The core design filters out contaminant particles down to 25 microns, 100% copper sweat fittings
- Desiccant core provides three times the filtration as the standard bi-flow
- Core is cushioned in fiber gaskets to protect core and to ensure trouble-free performance
- Corrosion-resistant powder coated exterior surpasses 500-hr ASTM salt spray test

Specifications:

Maximum working pressure: 680 psi*

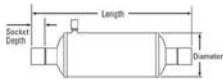
*Note: Above pressure rating is valid for Source 1 driers manufactured after June, 2009. These driers can be identified by the UL mark on the box and drier label.

SOURCE 1 PART NO.	TYPE	ODF	CU IN.	MLP \$
S1-BFD083S	BI-FLOW	3/8	8	
S1-BFD163S	BI-FLOW	3/8	16	

Air Conditioning & Refrigeration Controls

DRIERS

Sporlan Catch-All Suction Line Filter-Driers



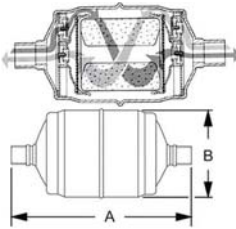
Sporlan Suction Line Filter-Driers are designed specifically for CLEAN-UP after BURNOUT using the HH TYPE CHARCOAL CORE.

Features:

- Positive protection for the compressor, Most economical method of clean-up
- Minimum down time — system operates during clean-up.
- Method is applicable to almost any size system
- Removes all contaminants — moisture, acid, sludges, dirt...
- Recommended by the leading equipment manufacturers

SOURCE 1 PART NO.	SPORLAN PART NO.	CONNECTION SIZE & TYPE	BODY DIAMETER (INCHES)	LENGTH A (INCHES)	SURFACE FILTERING AREA (SqCm)	SHIP WT.	MLP \$
S1-401026	C-164-S-T-HH	1/2 ODF	3.00	6.00	213	1.75	
S1-401029	C-165-S-T-HH	5/8 ODF	3.00	6.31	213	1.75	
S1-401030	C-166-S-T-HH	3/4 ODF	3.00	6.75	213	1.75	
S1-401033	C-167-S-T-HH	7/8 ODF	3.00	6.93	213	1.75	
S1-401316	C-307-S-T-HH	7/8 ODF	3.00	9.80	342	3.5	
S1-401318	C-309-S-T-HH	1-1/8 ODF	3.00	9.75	342	3.5	

Sporlan Reversible Heat Pump Filter-Driers



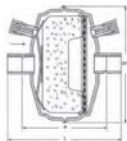
Features:

- A short overall length for easy installation.
- Proven metal check valves used in construction – no synthetic materials.
- The Sporlan dependable molded core used for maximum filtration ability. When the flow direction reverses, dirt already collected remains in the filter-drier, Drier operates in either flow direction with low pressure drop.
- A carefully engineered blend of desiccants for maximum water capacity and acid removal ability.
- The HPC-160-HH Series also has the HH style core with activated charcoal which offers maximum ability to remove oleoresin and other reactive chemical constituents in the oil.
- Same rugged construction as used in the Catch-All, Maximum working pressure: 650 psi
- Compatible with refrigerants 12, 22, 134a, 404A, 407C, 410A, 502, 507



SOURCE 1 PART NO.	SPORLAN PART NO.	CONN	DIMENSIONS		SURFACE FILTERING AREA (SqCm)	FLOW CAP TONS @ 1PSI	WATER CAP R-22 DROPS @ 60PPM	REFRIG FLOW CAP @ 2 PSI PRESS. DROP (TONS)	FLOW CAP TONS @1PSI	SHIP WT (LBS)	WATER CAP R-22 DROPS @ 60PPM	WATER CAP R-410A DROPS @ 50PPM			LIQUID CAP OUNCES @ 100F		MLP \$
			WATER CAP DROPS (125°) AT 60 PPM 75°F	WATER CAP DROPS (125°) AT 60 PPM 125°F		R-22	125F		75F		125F	R-22	R-410A				
S1-401372	HPC-305-S-HH	5/8 ODF	3.00	10.42		9.8	167	10.8	10.8	119	123	109	19.7	17.2			
S1-401373	HPC-307-S-HH	7/8 ODF	3.00	11.02		10.6	167	10.8	10.8	119	123	109	19.7	17.2			
S1-404101	HPC-103-S	3/8 ODF	3.00	5.88	18	215	176	4.7	1.75								
S1-404161	HPC-104-S	1/2 ODF	3.00	6.00	18	215	176	6.3	1.75								
S1-404180	HPC-163-HH	3/8 SAE	3.00	7.78		4.7	93	4.8	4.8	81	69	100	14.5	12.6			
S1-404201	HPC-163-S-HH	3/8 ODF	3.00	6.92	26	93	81	3.7									
S1-404241	HPC-164-S-HH	1/2 ODF	3.00	7.07	26	93	81	4									
S1-404281	HPC-165-S-HH	5/8 ODF	3.00	7.35	26	93	81	6.8	1.75								

Sporlan Compact Style Suction Line Filter-Driers



Features:

- Short overall length
- Suitable for cramped piping situations

SOURCE 1 PART NO.	SPORLAN MODEL NO.	CONNECTION SIZE & TYPE	BODY DIAMETER	LENGTH	SHIP WT	MLP \$
S1-400806	C-146-S-TT-HH	3/4 ODF	4.44	4.83	2	
S1-400811	C-147-S-TT-HH	7/8 ODF	4.44	4.97	2	

Air Conditioning & Refrigeration Controls

FILTERS

Sporlan SF - Suction Filter

Types with Bypass Relief Valve (Bi-Directional Flow)

SOURCE 1 PART NO.	SPORLAN PART NO.		CONN	FILTER AREA SQ. IN.	OVERALL LENGTH	SHELL DIA	SHIP WT (LBS.)	RATINGS AT ARI STANDARD 730 CONDITIONS			MLP \$
	W/O ACCESS VALVE	W/ ACCESS VALVE						WATER CAP DROPS @ 60 PPM 75°F	WATER CAP DROPS @ 60 PPM 125°F	REFRIG FLOW CAP TONS @ 3 PSI	
S1-800001	—	SF-286-T	3/4 ODF	28	8.79	3	2.25	N/A	N/A	8.6	
S1-800002	—	SF-287-T	7/8 ODF	28	8.93	3	2.25	N/A	N/A	11.1	
S1-800006	—	SF-289-T	1-1/8 ODF	28	9.51	3	2.25	N/A	N/A	14.8	
S1-800008	—	SF-4811-T	1-3/8 ODF	48	13.1	3	3	N/A	N/A	18.4	
S1-800037	—	SF-285-T	5/8 ODF	28	8.34	3	2.25	N/A	N/A	6.4	
S1-800120	—	SF-489-T	1-1/8 ODF	48	12.42	3	3	N/A	N/A	16	

Types Without Bypass Relief Valve (Single Flow Direction)

SOURCE 1 PART NO.	SPORLAN PART NO.		CONN	FILTER AREA SQ. IN.	OVERALL LENGTH	SHELL DIA	SHIP WT (LBS.)	RATINGS AT ARI STANDARD 730 CONDITIONS			MLP \$
	W/O ACCESS VALVE	W/ ACCESS VALVE						WATER CAP DROPS @ 60 PPM 75°F	WATER CAP DROPS @ 60 PPM 125°F	REFRIG FLOW CAP TONS @ 3 PSI	
S1-800013	SF-115		5/8 ODF	11	4.60	2.00	.75	N/A	N/A	4.1	
S1-800182	—	SF-6417-T	2-1/8 ODF	388*	10.94	4.75	7.50	N/A	N/A	91.1	

SELECTION RECOMMENDATIONS																								
TYPE NUMBER		CONNECTIONS INCHES	** FLOW CAPACITY IN TONS EVAPORATOR TEMPERATURE												NOMINAL SYSTEM HORSEPOWER									
WITHOUT ACCESS VALVE	WITH ACCESS VALVE		40°F				20°F				0°F						-20°F				-40°F			
			PRESSURE DROP																					
			2	3	1/2	2	1	1-1/2	1/2	1	1/2	2	2	2			2	2	2	2				
REFRIGERANT												REFRIGERANT												
												22	12, 134A, 502											
SF-114	--	1/2 ODF	1.3	1.5	2.4	0.9	1	1.5	0.6	0.6	1.1	0.3	0.7	0.3	1	1/2								
SF-115	--	5/8 ODF	2.3	2.6	4.1	1.6	1.7	2.7	1	1.1	1.8	0.5	1.2	0.6	2	1								
--	SF-285-T	5/8 ODF	3.5	4	6.4	2.5	2.7	4	1.6	1.7	2.9	0.9	1.8	1	4	1-1/2								
--	SF-286-T	3/4 ODF	4.3	5.1	8.6	3.1	3.4	5	2	2.1	3.6	1.1	2.2	1.2	5	1-1/2								
--	SF-287-T	7/8 ODF	6.3	7	11.1	4.4	4.6	7.2	2.7	2.8	5.1	1.4	3.1	1.5	7-1/2	3								
--	SF-289-T	1-1/8 ODF	8.2	9.2	14.8	5.7	6	9.4	3.5	3.7	6.6	1.8	4	2.1	7-1/2	5								
--	SF-489-T	1-1/8 ODF	8.7	9.9	16	6.1	6.5	10	3.7	3.9	7	1.9	4.3	2.2	10	5								
--	SF-4811-T	1-3/8 ODF	9.9	11.2	18.4	6.8	7.3	11.4	4.2	4.4	7.9	2.2	4.8	2.5	12	5								
--	SF-4813-T	1-5/8 ODF	11.7	13.3	21.6	8.1	8.7	13.5	4.9	5.2	9.4	2.6	5.6	2.9	15	7								
--	SF-6417-T	2-1/8 ODF	46.7	50.9	91.1	28.7	31	56.9	15.8	16.4	31.8	7.2	20.3	9.3	55	20								
--	SF-6421-T	2-5/8 ODF	50.5	62.9	119	36.8	38.6	70.2	20.2	20.6	44	9.1	25.6	11.8	60	30								

**Refrigerant 502 flow capacity is 80% of the values shown for Refrigerant 22, when expressed in TONS. When expressed in horsepower, the proper refrigerant selection is the same as for R-12.

* The SF-6400 series uses a pleated filter that greatly increases the square inch filter area.

Danfoss Universal TR 6 Expansion Valve Kits



The Danfoss Universal TR 6 thermostatic expansion valve (TXV) is available in seven models that cover original equipment manufacturer (OEM) air-conditioner and heat pump designs, from 1 1/2 to 6 tons in R-22 and R-410A systems.

Kit Includes:

- Valve with 3/8" x 3/8" ODF connections, 24" equalization line and 31 1/2" capillary tube
- Chatleff and Aeroquip adapters
- Built-in check valve for heat pumps
- 35" foam insulating tape
- Patented easy secure copper bulb strap Instructions

SOURCE 1 PART NO.	SYSTEM CAPACITY	DANFOSS MODEL	REFRIGERANT	MLP \$
S1-067L5856	1-1/2 - 2 TONS	067L5856	R22	
S1-067L5857	2-1/2 - 3 TONS	067L5857	R22	
S1-067L5858	3-1/2 - 4 TONS	067L5858	R22	
S1-067L5859	5 - 6 TONS	067L5859	R22	
S1-067L5955	1-1/2 - 2 TONS	067L5955	R410A	
S1-067L5956	3-1/2 - 4 TONS	067L5956	R410A	
S1-067L5957	4-1/2 - 5 TONS	067L5957	R410A	