

FILTER DRIERS - SPORLAN



Catch-All THE PERFECT FILTER-DRIER

22, 134a, 404A, 407C, 410A, 507

The universal acceptance of the **Catch-All® Filter-Drier** is due to its unique moulded porous core, consisting of a blend of highly effective desiccants. The quality features built into it assure years of service on any refrigeration system.

MOISTURE

The **Catch-All Filter-Drier** removes moisture from the refrigerant by adsorbing and retaining it deep within the desiccant granules. The blend of desiccants used in the **Catch-All Filter-Drier** are specially formulated for exceptional water removal.

FOREIGN MATTER

The **Catch-All Filter-Drier** will filter out scale, solder particles, carbon, sludge, dirt or any other foreign matter with negligible pressure drop. Fine particles that would go through an ordinary strainer are removed down to a minimum size in one pass filtration. The large filtering area of the **Catch-All Filter-Drier** core permits it to collect a large amount of dirt without plug up.

ACID

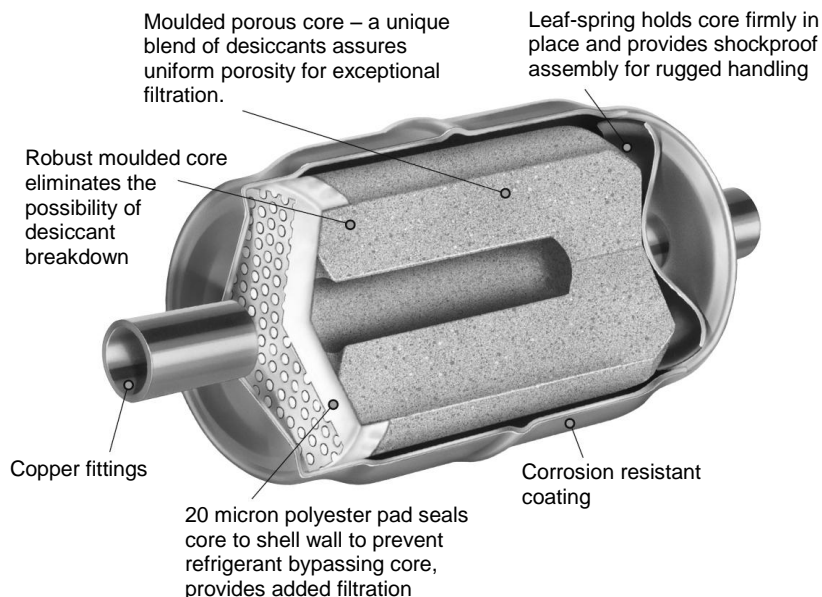
The **Catch-All Filter-Drier** is unexcelled in acid removal ability. The hydrochloric, hydrofluoric, and various organic acids are adsorbed and held by the desiccant in a manner similar to the adsorption of moisture. Tests have demonstrated that the **Catch-All Filter-Drier** has superior acid removal ability when compared to competitive driers. This ability, along with its excellent ability to clean up the oil, is responsible for the excellent field performance in cleaning up severely contaminated systems.

OIL SLUDGE AND VARNISH

Even the best refrigeration oils break down to produce varnish, sludge and organic acids. Only the **Catch-All Filter-Drier** is capable of removing these products of oil decomposition.

SPECIAL APPLICATIONS

A special "HH" core **Catch-All Filter-Drier** is available to remove wax which frequently causes difficulty on low temperature refrigeration systems.



FILTER DRIERS - SPORLAN

Liquid Line Filter Driers

Airefrig Part Number	Connection Type & Size	Desiccant Volume cm ³	**Water Capacity - Grams					Selection Recommends KW					Overall Length mm	Dia mm	List Price Excl GST
			R22 60PPM	R134A 50PPM	R404A & R507 50PPM	R407C 50PPM	R410A 50PPM	Refrigeration			Air Cond.				
			25°C & 50°C	25°C & 50°C	25°C & 50°C	25°C & 50°C	25°C & 50°C	R134a	R22	R404A & R507	R134a	R22,407C & R410A			
C032	1/4MF	49	3.1 & 2.5	3.4 & 2.4	3.6 & 2.9	2.6 & 0.9	1.4 & 1.0	0.88	0.88	0.88	1.8	1.76	106	44	\$25.98
C032F	1/4MF/FF												97		\$27.91
C032S	1/4ODS												106		\$21.65
C033	3/8MF												119		\$27.05
C033S	3/8ODS												99		\$27.05
C052	1/4MF	82	7.3 & 6.0	7.9 & 5.7	8.5 & 6.9	6.2 & 2.0	3.2 & 2.4	1.17	1.17	1.17	2.64 thru 3.52	2.64 thru 3.52	121	62	\$34.02
C052S	1/4ODS												106		\$34.02
C053	3/8MF												132		\$34.64
C053S	3/8ODS												109		\$32.40
C082	1/4MF	147	12.0 & 9.8	13.1 & 9.4	14.0 & 11.4	10.1 & 3.3	5.2 & 3.9	1.76 thru 5.28	1.76 thru 5.28	1.76 thru 5.28	2.64 thru 7.03	3.52 thru 7.03	143	67	\$40.54
C082S	1/4ODS												130		\$39.48
C083	3/8MF												154		\$40.54
C083S	3/8ODS												133		\$38.91
C084	1/2MF												160		\$42.18
C084S	1/2ODS												138		\$37.85
C162	1/4MF	262	17.3 & 14.9	19.8 & 14.3	21.2 & 17.3	15.4 & 5.0	7.9 & 6.0	3.52 thru 7.03	5.28 thru 10.6	2.64 thru 7.03	3.52 thru 17.6	5.28 thru 17.6	159	76	\$48.65
C163	3/8MF												171		\$48.65
C163S	3/8ODS												149		\$48.65
C164	1/2MF												176		\$52.42
C164S	1/2ODS												152		\$52.42
C165	5/8MF												184		\$54.04
C165S	5/8ODS												160		\$46.50
C303	3/8MF	492	34.8 & 28.4	37.8 & 27.3	40.5 & 32.9	29.3 & 9.5	15.1 & 11.4	10.6 thru 17.6	10.6 thru 17.6	7.03 thru 17.6	10.6 thru 26.4	14.1 thru 35.2	246	76	\$102.33
C303S	3/8ODS												226		\$105.80
C304	1/2MF												251		\$102.33
C304S	1/2ODS												229		\$109.57
C305	5/8MF												259		\$102.33
C305S	5/8ODS												235		\$102.33
C306	3/4MF												259		\$109.36
C306S	3/4ODS												245		\$109.36
C414	1/2MF	672	46.8 & 35.7	50.9 & 36.7	54.4 & 44.3	39.4 & 12.7	20.4 & 15.3	17.6 thru 35.2	17.6 thru 42.2	17.6 thru 35.2	17.6 thru 42.2	26.4 thru 52.8	252	89	\$150.53
C415	5/8MF												260		\$153.17
C415S	5/8ODS												237		\$135.19
C416	3/4MF												260		\$193.21
C416S	3/4ODS												249		\$151.69
C417S	7/8ODS												249		\$155.72

** 20 Drops = 1 gram = 1cc. (Ratings at ARI standard conditions)



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EFFECTIVE MARCH 2014

FILTER DRIERS - SPORLAN

Reversible Heat Pump Driers

Design Benefits

Short overall length for easy installation.

Drier operates in either flow direction with low pressure drop.

Proven metal check valves used in construction – no synthetic materials.

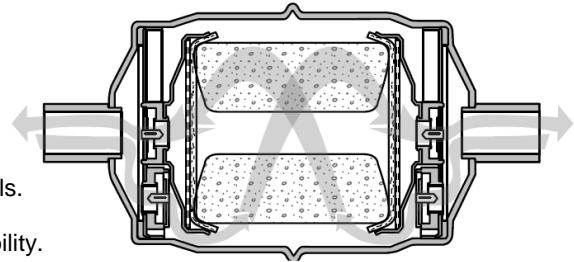
The Sporlan dependable moulded core used for maximum filtration ability.

When the flow direction reverses, dirt already collected remains in the filter-drier.

Carefully engineered blend of desiccants for maximum water capacity & 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 lubricant.

Same rugged construction as used in the Catch-All®.



Heat Pump Driers – Reversible (New Installations)

Airefrig Part Number	Connection Type & Size	Desiccant Volume cm ³	**Water Capacity - Grams						Selection Recommend KW	Overall Length mm	Dia. mm	List Price Excl GST
			R22 at 60PPM		R407C at 50PPM		R410A at 50PPM					
			24°C	52°C	24°C	52°C	24°C	52°C				
HPC103	3/8MF	164	10.8	8.8	9.1	3.0	4.7	3.5	3.5 thru 17.5	76	171	\$68.30
HPC103S	3/8ODS										149	\$60.92
HPC104	1/2MF										176	\$73.82
HPC104S	1/2ODS										152	\$60.92
HPC105S	5/8ODS										152	\$60.92

** 20 Drops = 1 gram = 1cc. (Ratings at ARI standard conditions)

Heat Pump Driers – Reversible (For Clean-up after Burnout)

Airefrig Part Number	Connection Type & Size	Desiccant Volume cm ³	**Water Capacity - Grams						Selection Recommend KW	Overall Length mm	Dia. mm	List Price Excl GST
			R22 at 60PPM		R407C at 50PPM		R410A at 50PPM					
			24°C	52°C	24°C	52°C	24°C	52°C				
HPC163HH	3/8MF	229	4.7	4.1	4.5	4.4	3.5	5.0	3.5 thru 17.5	76	198	\$123.84
HPC163SHH	3/8ODS										176	\$123.84
HPC164HH	1/2MF										202	\$123.84
HPC164SHH	1/2ODS										180	\$123.84
HPC165HH	5/8MF										210	\$126.84
HPC165SHH	5/8ODS										187	\$126.84
HPC307SHH	7/8 ODS	492	8.4	6.0	8.1	4.4	6.2	5.5	14 thru 42	280	\$206.41	

** 20 Drops = 1 gram = 1cc. (Ratings at ARI standard conditions)

HH Signifies suitable for Burn Out Applications

FILTER DRIERS - SPORLAN

Suction Line Filter Driers (Clean Up after Burn Out and New Systems)

The flow capacities are rated at the maximum recommended pressure drop for permanent installation.

To ensure the suction line filter-drier has ample contaminant removal ability, selection must be based on flow capacity and the amount of desiccant required for system clean-up.

The suction line filter-drier must be large enough to adequately remove acid, moisture and solid contaminants without causing nuisance plug-ups.

Standard Suction Line Driers – Not Reversible

Airefrig Part Number	Connection Type & Size	Desiccant Volume cm ³	R22		R134A			R404A			R410	Overall Length mm	Diameter mm	List Price Excl GST		
			Evaporator Temperature °C													
			+5°C	-5°C	-15°C	+5°C	-5°C	-15°C	-5°C	-15°C	-30°C				+5°C	
			Pressure Drop (bar)													
			0.21	0.14	0.10	0.14	0.10	0.07	0.14	0.10	0.07				0.21	
C084STHH	1/2 ODS	147	7.4	4.6	3.2	4.9	3.2	2.1	4.6	2.8	1.8	9.5	138	76	\$69.89	
C164STHH	1/2 ODS	262	9.5	6.0	3.9	6.0	3.9	2.5	5.6	3.5	2.1	12.7	152		\$85.02	
C165STHH	5/8 ODS		11.3	7.0	4.6	7.0	4.6	2.8	6.7	4.2	2.5	14.8	176		\$103.01	
C166STHH	3/4 ODS		14.1	8.8	5.6	9.1	6.0	3.5	8.4	5.6	3.2	18.3	184		\$103.01	
C305STHH	5/8 ODS	492	12.0	7.4	4.9	7.7	4.9	2.8	7.0	4.6	2.8	15.5	235		\$139.21	
C307STHH	7/8 ODS		18.6	11.6	7.7	12.0	7.7	4.6	11.3	7.0	4.2	24.6	248		\$162.29	
C419STHH	1 1/8 ODS	672	21.8	13.7	8.8	14.1	9.1	5.6	13.0	8.4	5.3	28.1	248		89	\$222.96
C4311STHH	1 3/8 ODS	787	39.0	24.3	16.2	25.0	16.2	9.9	23.6	15.1	9.1	50.7	278		121	\$365.68
C4313STHH	1 5/8 ODS		42.9	26.7	17.6	27.4	17.9	10.9	25.7	16.5	10.2	55.9				\$447.54

Compact Suction Line Driers – Not Reversible

C144STHH	1/2ODS	229	7.4	4.6	3.2	4.6	2.8	1.8	3.2	2.1	1.1	9.5	105	112	\$112.48
C145STHH	5/8ODS		12.0	7.7	4.9	7.4	4.6	2.8	5.6	3.5	2.1	16.2	111		\$133.67
C146STHH	3/4ODS		16.9	10.6	7.0	10.2	6.3	3.9	7.4	4.9	3.2	21.8	123		\$116.85
C147STHH	7/8ODS		18.6	11.6	7.7	11.3	7.4	4.6	8.5	5.6	3.2	23.9	126		\$136.52
C149STHH	1 1/8ODS		24.6	15.5	10.2	14.8	9.5	5.6	11.3	7.4	4.2	31.7	125		\$146.76

T Signifies fitted with 1 Access Valve / TT Signifies fitted with 2 Access Valves / HH Signifies suitable for Burn Out Applications



Standard Body Type



Compact Body Type

SUCTION FILTERS - SPORLAN

Suction Filter - Sealed Type



Design Benefits

- Protects the compressor from dirt
- Relief device opens if the filter plugs
- Suitable for use with all brazing alloys
 - Maximum corrosion resistance
- Full flow design for low pressure drop
 - Complete line of sizes



Sporlan offers an exclusive concept in Suction Filter design – a filter with an optional relief feature. When flow is in **one direction**, the bypass relief feature is active.

If the pressure drop across the element becomes excessive the bypass relief will open slightly to maintain sufficient gas flow and assure proper cooling of the hermetic motor.

When the Suction Filter is installed with flow in the **opposite direction**, the bypass relief feature is inactive and will never open regardless of the increase in pressure drop.

The “-T” in the type number indicates these models are equipped with an access valve to permit pressure drop readings.

The access valve will be operational provided the Suction Filters are installed with the bypass feature inactive.

Airefrig Part Number	Connection Type & Size	Filter Area cm ²	Flow Capacity in KW Evaporator Temperature								Nominal System HP		Overall Length mm	Diameter mm	List Price Excl GST
			+5°C		+5°C		-20°C		-30°C						
			Pressure Drop - bar												
			Refrigerant												
			0.20	0.14	0.20	0.14	0.10	0.14	0.07	0.10	0.07	R22 407C	404A 507 134A		
			22	134A	407C	22	134A	404A, 507	134A	404A, 507	404A, 507				

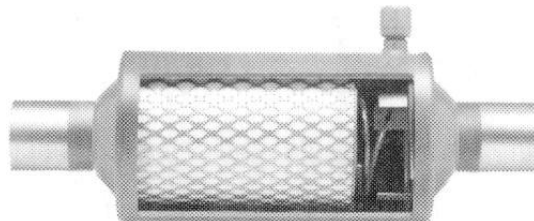
Bi- directional Flow – With Bypass Relief Feature

Part Number	Connection	Filter Area cm ²	7.4	4.2	7.0	4.6	2.8	4.2	1.8	2.8	1.8	1.0	1/2	223	76	List Price Excl GST
SF283F	3/8 FL	181	7.4	4.2	7.0	4.6	2.8	4.2	1.8	2.8	1.8	1.0	1/2	223		\$99.13
SF285T	5/8 ODS		22.5	14.1	21.8	14.1	9.5	13.7	6.0	9.5	6.0	4.0	1-1/2	212		\$129.38
SF285FT	5/8 FL		22.5	14.1	21.8	14.1	9.5	13.7	6.0	9.5	6.0	4.0	1-1/2	223		\$153.53
SF286T	3/4 ODS		30.2	17.9	28.5	17.6	12.0	17.9	7.4	12.0	7.4	5.0	1-1/2	223		\$131.79
SF287T	7/8 ODS		39.0	24.6	39.7	25.3	16.2	24.6	9.8	16.2	10.2	7-1/2	3.0	227		\$112.98
SF289T	1 1/8 ODS		52.1	32.4	51.3	33.1	21.1	32.4	13.0	21.5	13.4	7-1/2	5.0	242		\$140.44
SF489T	1 1/8 ODS	310	56.3	34.8	55.2	35.2	22.9	34.5	13.7	22.9	14.4	10.0	5.0	315		\$142.37
SF4811T	1 3/8 ODS		64.7	39.4	63.3	40.1	25.7	39.4	15.5	26.0	16.2	12.0	5.0	333		\$152.20

Single Flow – Without Bypass Relief Feature

Part Number	Connection	Filter Area cm ²	13.0	8.1	13.0	8.4	5.3	8.1	3.2	5.3	3.2	2	1	141	51	List Price Excl GST
SF115F	5/8 FL	71	13.0	8.1	13.0	8.4	5.3	8.1	3.2	5.3	3.2	2	1	141	51	\$68.57

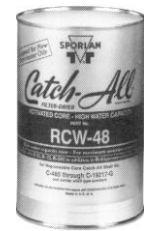
Suffix T signifies with Access Valve



DRIER CORES - SPORLAN

Replaceable Drier Cores & Pleated Elements

Airefrig Part Number	Description – Application	List Price Excl GST
RC4864	Activated Core The standard core suitable for most installations for liquid or suction line.	\$52.31
RC4864HH	Activated Charcoal Core This core should be used for wax removal on low temperature systems, and for clean up after burn-out on all types of systems	\$86.80
RCW48	High Water Capacity Core This core should be used on system that a ruptured condenser or that have been exposed to the atmosphere, or for some reason are expected to have a high amount of water in the system. Designed especially for polyolester oils.	\$98.10
RPE48BD	Pleated Filter Element This should be installed in the suction line to obtain the lowest possible pressure drop. In cleaning up a system after a motor burn out, cores should be used first. Then after the system is thoroughly clean, then the felt element can be installed.	\$77.33



DRIER SHELLS - ENTHALPY

Enthalpy Drier Shells

Airefrig Part Number	Cores	Connection Sizes Inches	Desiccant Volume cm ³	Filter Surface Area cm ²	List Price Ex GST
NFDS485	1	5/8"	786	413	\$224.01
NFDS487	1	7/8"			\$224.01
NFDS489	1	1 1/8"			\$224.01
NFDS4811	1	1 3/8"			\$230.13
NFDS4813	1	1 5/8"			\$230.13
NFDS4817	1	2 1/8"			\$236.43
NFDS967	2	7/8"	1572	826	\$292.23
NFDS969	2	1 1/8"			\$292.23
NFDS9611	2	1 3/8"			\$298.35
NFDS9613	2	1 5/8"			\$302.58
NFDS9617	2	2 1/8"			\$302.58
NFDS1449	3	1 1/8"	2358	1239	\$337.41
NFDS14411	3	1 3/8"			\$337.41
NFDS14413	3	1 5/8"			\$346.41
NFDS14417	3	2 1/8"			\$346.41
NFDS19211	4	1 3/8"	3144	1652	\$390.78
NFDS19213	4	1 5/8"			\$390.78
NFDS19217	4	2 1/8"			\$392.67
NRC081852	Gasket Kit to suit NFDS drier shells				\$17.30



Note: The NFDS Enthalpy drier shells have a maximum working pressure of 500psi.

OIL FILTERS - SPORLAN

Sporlan *OF* Series Oil Filters

Virtually eliminates the need for oil changes due to suspended particulate in circulation.

Unsurpassed filtering efficiency:

- 99% removal of 3 micron sized particles
- 98% removal of 2 micron sized particles

Element utilizes a pleated design for maximum surface area.
Unsurpassed filtration capacities.

High flow capacities with low pressure drop.

Filter element utilizes an O-ring seal.

Inert microglass filter material ensures lubricant compatibility.

Dimensions allow for easy replacement of current filter.



With the use of POE oils system chemistry changed, unlike mineral and alkylbenzene oils POE oil has solvent-like tendencies. POE oil has the ability to suspend and recirculate small, solid contaminants left from system installation or retrofit. POE oil samples taken from actual systems have shown the oil to suspend and recirculate a high concentration of 2-20 micron sized particles, with the largest percentage between 2-10 microns.

Although some particles are smaller than bearing tolerances, studies have shown bearing life can still be affected.

Bearing wear depends upon the size, hardness, and concentration of particles in circulation.

To effectively remove these small particles, Sporlan developed a new type of oil filter.

The **OF Series Oil Filters** are designed to be 99% efficient in removing 3 micron sized particles and yet have sufficient flow capacity at a low pressure drop, the unsurpassed filtration ability of the oil filters will assure clean POE, mineral or alkylbenzene oil is returned to the compressors.

Clean oil ensures proper operation of the oil level control and minimizes compressor wear.

Sporlan *OF* Oil Filters

Airefrig Part Number	Description	Filtering Area	Overall Length	Shell Diameter	List Price Excl GST
OF303	Sealed Model 3/8 Flare	2097 cm ²	246mm	76mm	\$303.75
ROF413	Replaceable Oil Filter Shell		206mm	89mm	\$327.64
OFE1	Element with Gasket – suit ROF413				\$197.09
A1751	Mounting Bracket – suit ROF413				\$172.02

OIL LEVEL SYSTEM - SPORLAN

Sporlan Oil Level System – Externally Adjustable

Airefrig Part Number	Description	List Price Excl GST
OL60XH	Oil Level Control c/w Equaliser Fitting (Max Δ P 6.2 bar)	\$575.45
OCV10	Oil Diff Check Valve 10 Psi	P.O.A.
OCV20	Oil Diff Check Valve 20 Psi	\$77.89
POR2	Oil Reservoir 6 Litre	\$636.13



OCV



OL60X