

# Catch-All

THE PERFECT FILTER-DRIER

22, 134a, 404A, 407C, 409A, 410A, 507

## Replaceable Core Type

### ODF Solder Connections

The rugged construction of the Replaceable Core Catch-All has proven itself in the field for many years. The design features include:

1. The famous **molded porous core** for maximum contaminant removal. The core cannot swell, powder or pack – assuring ease of installation and removal.
2. The **bolt and nut attachment** of the end plate provides simple trouble-free installation.
3. The **internal** construction gives a one piece assembly and assures proper core alignment.
4. A **complete line** of fitting sizes – all with copper fittings.
5. **No plastic parts** are used – all internal parts are plated steel.
6. A **corrosion resistant powder paint** protects the exterior of the shell.



RCW-48



RC-4864-GL



RCW-100



C-969-G



## Specifications

TYPE	CONNECTIONS ODF SOLDER Inches	OPTIONAL SECONDARY FILTER*	NUMBER of CORES or FILTER ELEMENTS	CORE PART NUMBER	VOLUME of DESICCANT cm <sup>3</sup>	FILTER ELEMENT PART NUMBER	MOUNTING BRACKETS	OVERALL LENGTH mm
C-R424-G	1/2	—	1	RCW-42	688	—	A-175-1	229
C-R425-G	5/8	—	1	RCW-42	688	—	A-175-1	230
C-R427-G	7/8	—	1	RCW-42	688	—	A-175-1	240
C-485-G	5/8	—	1	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	787	RPE-48-BD	A-685	232
C-487-G	7/8	—	1	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	787	RPE-48-BD	A-685	236
C-489-G	1-1/8	FS-480	1	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	787	RPE-48-BD	A-685	241
C-4811-G	1-3/8	FS-480	1	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	787	RPE-48-BD	A-685	244
C-4813-G	1-5/8	FS-480	1	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	787	RPE-48-BD	A-685	244
C-967-G	7/8	—	2	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	1573	RPE-48-BD	A-685	377
C-969-G	1-1/8	FS-960	2	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	1573	RPE-48-BD	A-685	382
C-9611-G	1-3/8	FS-960	2	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	1573	RPE-48-BD	A-685	385
C-9613-G	1-5/8	FS-960	2	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	1573	RPE-48-BD	A-685	385
C-1449-G	1-1/8	—	3	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	2360	RPE-48-BD	A-685	523
C-14411-G	1-3/8	FS-1440	3	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	2360	RPE-48-BD	A-685	525
C-14413-G	1-5/8	FS-1440	3	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	2360	RPE-48-BD	A-685	525
C-19211-G	1-3/8	—	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	3146	RPE-48-BD	A-685	666
C-19213-G	1-5/8	FS-19200	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	3146	RPE-48-BD	A-685	666
C-19217-G	2-1/8	FS-19200	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	3146	RPE-48-BD	A-685	666
C-30013-G	1-5/8	—	3	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	4916	RPE-100	A-175-2	710
C-30017-G	2-1/8	—	3	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	4916	RPE-100	A-175-2	713
C-40017-G	2-1/8	—	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	6555	RPE-100	A-175-2	878
C-40021-G	2-5/8	—	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	6555	RPE-100	A-175-2	883
C-40025-G	3-1/8	—	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	6555	RPE-100	A-175-2	875
C-40029-G	3-5/8	—	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	6555	RPE-100	A-175-2	884
C-40033-G	4-1/8	—	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	6555	RPE-100	A-175-2	892
NPT PIPE CONNECTIONS								
C-484-PG	1/2	—	1	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	787	RPE-48-BD	A-685	231
C-966-PG	3/4	—	2	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	1572	RPE-48-BD	A-685	373
C-1448-PG	1	—	3	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	2360	RPE-48-BD	A-685	519
C-19212-PG	1-1/2	—	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	3146	RPE-48-BD	A-685	657
C-40016-PG	2	—	4	RC-4864, RC-48GL, RCW-48, or RC-4864-HH	6555	RPE-100	A-175-2	875

UL and UL<sub>C</sub> Listed – Guide SMGT-File No. SA-1756A & B.

Maximum rated pressure of 34.4 bar, except for the Type C-R420 Series which has a maximum rated pressure of 27.5 bar.

\*Optional Secondary Filter must be purchased separately. O-rings (p/n 621-025) are supplied with each secondary filter, but can be purchased separately. The secondary filter cannot be used if the shell is installed in the suction line.

**Type numbers with G suffix** indicate that unit is supplied with 1/4" female pipe connection in the end plate and pipe plug. For liquid line service an angle charging valve for system charging purposes can be installed in place of the pipe plug. Angle charging and Schrader type access valves are available from your Sporlan Wholesaler.

**Type numbers with P suffix** indicates female threaded pipe connections.

**Ammonia Catch-All Filters** prolong the life of ammonia systems by using the Catch-All to effectively remove scale and other solid contaminants. Select a model from those listed above with female pipe connections.

**Note: Do not use the RPE-48-BD, RPE-100 filter elements or the RC-48GL core in ammonia systems.**



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

### Liquid Line Ratings and Selection Recommendations

TYPE	③ SURFACE FILTERING AREA – cm <sup>2</sup>	② RATINGS AT ARI STANDARD CONDITIONS													SELECTION RECOMMENDATIONS (kW)						
		WATER CAPACITY – DROPS										① REFRIGERANT FLOW CAPACITY kW at 0.07 bar ΔP			REFRIGERATION			AIR CONDITIONING			
		R-22 60 PPM		R-134a 50 PPM		R-404A & 507 50 PPM		R-407C 50 PPM		R-410A 50 PPM					COMMERCIAL & LOW TEMPERATURE EQUIPMENT			FIELD REPLACEMENT or FIELD BUILT UP SYSTEMS			
		25°C	50°C	25°C	50°C	25°C	50°C	25°C	50°C	25°C	50°C	22	134a	404A & 507	407C	410A	134a	22	404A & 507	134a	22, 407C & 410A
<b>SEALED TYPE</b>																					
C-032																					
C-032-CAP																					
C-032-S																					
C-032-F	58	3.1	2.5	3.4	2.4	3.6	2.9	2.6	0.9	1.4	1.0	5.28	4.57	3.52	4.57	4.92	0.88	0.88	0.88	1.76	1.76
C-032-FM																					
C-033												12.3	11.3	8.09	11.3	12.0					
C-033-S												13.4	12.3	9.14	12.3	13.0					
C-052																					
C-052-S												7.39	6.68	4.92	6.68	7.03	1.17	1.17	1.17	2.64 thru 3.52	2.64 thru 7.03
C-052-F																					
C-052-FM	97	7.3	6.0	7.9	5.7	8.5	6.9	6.2	2.0	3.2	2.4										
C-0525-S												12.0	10.9	8.09	10.9	11.6					
C-053												14.4	13.4	9.50	13.4	14.1					
C-053-S												16.5	15.1	10.9	15.1	15.8					
C-082												7.39	6.68	4.92	6.68	7.03					
C-082-S												13.0	11.6	8.44	11.6	12.3	1.76 thru 5.28	1.76 thru 5.28	1.76 thru 3.52	2.64 thru 7.03	3.52 thru 7.03
C-0825-S												15.8	14.8	10.6	14.8	15.5					
C-083	135	12.0	9.8	13.1	9.4	14.0	11.4	10.1	3.3	5.2	3.9	18.3	16.5	12.0	16.5	17.6					
C-083-S												30.6	27.8	20.7	28.1	29.9					
C-084												33.8	30.9	22.5	30.9	33.1					
C-084-S																					
C-162												7.39	6.68	4.92	6.68	7.03					
C-162-S												13.0	11.6	8.44	11.6	12.3	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
C-1625-S												15.8	14.8	10.6	14.8	15.5					
C-163	213	17.3	14.9	19.8	14.3	21.2	17.3	15.4	5.0	7.9	6.0	18.3	16.5	12.0	16.5	17.6					
C-163-S												35.5	32.7	23.9	32.7	34.2					
C-164												38.7	35.5	25.7	35.5	37.6					
C-164-S												48.5	44.3	32.4	44.7	47.1					
C-165												55.9	51.0	37.3	51.3	54.5					
C-165-S												16.2	14.8	10.6	14.8	15.5					
C-303												18.6	16.5	12.0	16.5	17.6					
C-303-S												35.5	32.7	23.9	32.7	34.5	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
C-304	342	34.8	28.4	37.8	27.3	40.5	32.9	29.3	9.5	15.1	11.4	38.7	35.5	25.7	35.5	37.6					
C-304-S												52.4	47.8	34.8	48.2	51.0					
C-305												59.4	54.5	39.7	54.5	57.7					
C-305-S												76.0	69.6	50.6	70.0	73.9					
C-307-S												40.5	36.9	26.7	36.9	39.0					
C-414												43.6	40.1	29.2	40.1	42.6	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
C-414-S												55.6	51.0	37.3	51.4	54.2					
C-415	432	46.8	35.7	50.9	36.7	54.4	44.3	39.4	12.7	20.4	15.3	77.7	71.4	52.0	71.8	75.6					
C-415-S												85.5	78.4	57.3	78.8	83.4					
C-417-S												102	93.6	68.6	94.3	100					
C-419-S												117	107	78.4	108	114					
C-607-S	684	69.6	56.7	75.6	54.5	80.9	65.8	58.6	18.9	30.2	22.7						52.8	52.8	35.2	52.8	70.3
C-609-S																					

① Based on 30°C liquid line temperature and a refrigerant flow of 400 grams per minute per kW of Refrigerant 134a; 374 grams per minute per kW of Refrigerant 22; 503 grams per minute per kW of Refrigerant 404A; 375 grams per minute per kW for Refrigerant 407C; 362 grams per minute per kW for Refrigerant 410A and 529 grams per minute per kW for Refrigerant 507. Ratings in accordance to ARI Standard 710.

② 20 drops = 1 gram = 1 cc.

③ The filtration area is equal to the core surface area plus the large internal surface available for depth filtration.

Note: The variation in flow ratings of filter-driers having the same size core and shell is caused by the difference in connection sizes used.



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

### Liquid Line Ratings and Selection Recommendations

TYPE	③ SURFACE FILTERING AREA cm <sup>2</sup>	② RATINGS AT ARI STANDARD CONDITIONS										SELECTION RECOMMENDATIONS (kW)					
		WATER CAPACITY – GRAMS						① REFRIGERANT FLOW CAPACITY kW at 0.07 bar ΔP				REFRIGERATION			AIR CONDITIONING		
		R-22 60 PPM		R-134a 50 PPM		R-404A & 507 50 PPM						COMMERCIAL & LOW TEMPERATURE EQUIPMENT			FIELD REPLACEMENT or FIELD BUILT UP SYSTEMS		
		25°C	50°C	25°C	50°C	25°C	50°C	22	134a	404A & 507	134a	22	404A, 502 & 507	134a	22		
<b>REPLACEABLE CORE TYPE WITH STANDARD CORES (See page 36)</b>																	
C-485-G	413	17.4	14.4	29.2	23.7	20.4	15.5	51.4	47.1	34.5	26.4	35.2	26.4	26.4	26.4	35.2	
C-487-G		84.1	77.0	56.3	42.2	52.8	35.2	42.2	52.8	35.2	42.2	52.8					
C-489-G		152	139	102	70.3	87.9	52.8	70.3	87.9	52.8	70.3	87.9					
C-967-G	826	34.7	28.8	58.3	47.3	40.8	30.9	138	126	92.2	70.3	87.9	52.8	70.3	87.9		
C-969-G		171	157	115	87.9	123	87.9	171	157	115	87.9	123	87.9				
C-1449-G	1239	52.1	43.2	87.5	71.0	61.2	46.4	208	190	140	106	141	106	106	141		
C-14411-G		236	216	158	141	176	123	141	176	123	141	176					
C-19211-G	1652	69.4	57.6	117	94.6	81.6	61.8	297	272	198	176	246	176	176	246		
C-19213-G		348	319	233	211	281	193	211	281	193	211	281					
C-19217-G		366	335	244	229	299	211	229	299								
C-30013-G	1897	134	93.9	196	151	132	99.6	394	359	262	264	352	246	264	352		
C-40017-G	2529	178	125	261	201	175	133	471	464	340	387	457	352	387	457		

TYPE	③ SURFACE FILTERING AREA – cm <sup>2</sup>	② RATINGS AT ARI STANDARD CONDITIONS													SELECTION RECOMMENDATIONS (kW)							
		WATER CAPACITY – GRAMS										① REFRIGERANT FLOW CAPACITY kW at 0.07 bar ΔP			REFRIGERATION			AIR CONDITIONING				
		R-22 60 PPM		R-134a 50 PPM		R-404A & 507 50 PPM		R-407C 50 PPM		R-410A 50 PPM					COMMERCIAL & LOW TEMPERATURE EQUIPMENT			FIELD REPLACEMENT or FIELD BUILT UP SYSTEMS				
		25°C	50°C	25°C	50°C	25°C	50°C	25°C	50°C	25°C	50°C	22	134a	404A & 507	407C	410A	134a	22	404A & 507	134a	22 & 407C	410A
<b>REPLACEABLE CORE TYPE WITH HIGH WATER CAPACITY CORES (See page 36)</b>																						
C-R424-G	432	45.1	36.8	49.1	35.3	52.5	42.7	38	12.3	20.4	15.3	40.1	36.6	26.7	36.9	42.6	10.6	17.6	17.6	17.6	17.6	17.6
C-R425-G		48.2	44.0	32.0	44.0	60.1	17.6	26.4	17.6	26.4	35.2	35.2										
C-R427-G		65.1	59.4	43.6	59.8	75.6	42.2	52.8	35.2	42.2	52.8	35.2										
C-485-G	413	55.5	45.2	60.1	43.4	64.5	52.5	46.7	15.1	24.1	18.1	51.4	47.1	34.5	47.5	50.3	26.4	35.2	26.4	26.4	35.2	35.2
C-487-G		84.1	77.0	56.3	77.4	81.9	42.2	52.8	35.2	42.2	52.8	35.2										
C-489-G		152	139	102	140	14.8	70.3	87.9	52.8	70.3	87.9	52.8										
C-967-G	826	111	90.4	120	86.8	129	105	93.4	30.1	48.1	36.1	138	126	92.2	127	135	70.3	87.9	52.8	70.3	87.9	87.9
C-969-G		171	157	115	158	167	87.9	123	87.9	87.9	123	123										
C-1449-G	1239	166	136	180	130	194	157	140	45.2	72.2	54.2	208	190	140	192	204	106	141	106	106	141	141
C-14411-G		236	216	158	217	230	141	176	123	141	176	176										
C-19211-G	1652	222	181	240	174	258	210	187	60.2	96.2	72.2	297	272	198	273	290	176	246	176	176	246	246
C-19213-G		348	319	233	320	340	211	281	193	211	281	193	211	281	193	211	281	193	211	281	193	211
C-19217-G		366	335	244	337	355	229	299	211	229	299	211	229	299	211	229	299	211	229	299	211	229
C-30013-G	1897	339	277	369	266	395	321	286	92.2	—	—	394	359	262	362	—	264	352	246	264	352	—
C-40017-G	2529	452	369	492	354	526	428	382	123	—	—	471	464	341	468	—	287	457	352	387	457	—

① Based on 30°C liquid line temperature and a refrigerant flow of 400 grams per minute per kW of Refrigerant 134a; 374 grams per minute per kW of Refrigerant 22; 503 grams per minute per kW for Refrigerant 404A; 375 grams per minute per kW for Refrigerant 407C; 362 grams per minute per kW for Refrigerant 410A and 529 grams per minute per kW for Refrigerant 507. Ratings in accordance to ARI Standard 710.

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③ The filtration area is equal to the core surface area plus the large internal surface available for depth filtration.

Note: The variation in flow ratings of filter-driers having the same size core and shell is caused by the difference in connection sizes used.



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

## Suction Line Filter-Drier Ratings for New Systems and Clean-up after Burnout Selection Instructions

Except for the values in bold (R-22/R-407C/R-410A at 5°C; 0.55 bar pressure drop), 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. Sizing is especially important for sealed type

suction line filter-driers since they should be sized to clean a small system with one service call.

To reduce the pressure drop through replaceable core shells, substitute cores with filter elements (see page 36) after the system has been cleaned up. The 6171-5 screen should be discarded when cores are replaced with RPE-48-BD elements in RSF shells.

For complete description of the suggested system clean-up procedure, request Bulletin 40-10.

### Suction Line Flow Capacity (kW) – Sealed Type

	REFRIGERANT		22					134a			404A				407C	410A
	EVAPORATOR TEMPERATURE		5°C	-5°C	-15°C	-30°C	-40°C	5°C	-5°C	-15°C	-5°C	-15°C	-30°C	-40°C	5°C	5°C
	PRESSURE DROP (bar)		0.21	0.14	0.10	0.07	0.04	0.14	0.10	0.07	0.14	0.10	0.07	0.035	0.21	0.21
SEALED TYPE	C-083-S-T-HH	7.4	3.2	4.6	1.8	0.7	4.5	2.9	1.8	4.2	2.8	1.8	0.7	7.0	9.5	
	C-084-S-T-HH	7.4	4.6	3.2	1.8	1.1	4.9	3.2	2.1	4.6	2.8	1.8	1.1	7.4	9.5	
	C-144-S-T-HH	7.4	4.6	3.2	1.4	0.7	4.6	2.8	1.8	3.2	2.1	1.1	0.7	7.4	9.5	
	C-145-S-T-HH	12.0	7.7	4.9	2.8	1.4	7.4	4.6	2.8	5.6	3.5	2.1	1.1	12.0	16.2	
	C-146-S-T-HH	16.9	10.6	7.0	4.2	2.1	10.2	6.3	3.9	7.4	4.9	3.2	1.4	16.9	21.8	
	C-147-S-T-HH	18.6	11.6	7.7	4.6	2.5	11.3	7.4	4.6	8.5	5.6	3.2	1.8	18.6	23.9	
	C-149-S-T-HH	24.6	15.5	10.2	6.0	3.2	14.8	9.5	5.6	11.3	7.4	4.2	2.1	24.6	31.7	
	C-164-S-T-HH	9.5	6.0	3.9	2.5	1.1	6.0	3.9	2.5	5.6	3.5	2.1	1.1	9.5	12.7	
	C-165-S-T-HH	11.3	7.0	4.6	2.8	1.4	7.0	4.6	2.8	6.7	4.2	2.5	1.4	11.3	14.8	
	C-166-S-T-HH	14.1	8.8	5.6	3.5	1.8	9.1	6.0	3.5	8.4	5.6	3.2	1.8	13.7	18.3	
	C-167-S-T-HH	15.8	9.9	6.3	3.9	1.8	9.9	6.3	3.9	9.5	6.0	3.5	1.8	15.5	20.8	
	C-305-S-T-HH	12.0	7.4	4.9	2.8	1.4	7.7	4.9	2.8	7.0	4.6	2.8	1.4	12.0	15.5	
	C-306-S-T-HH	15.5	9.9	6.3	3.9	1.8	9.9	6.3	3.9	9.5	6.0	3.5	1.8	15.5	20.4	
	C-307-S-T-HH	18.6	11.6	7.7	4.6	2.1	12.0	7.7	4.6	11.3	7.0	4.2	2.1	18.6	24.6	
	C-309-S-T-HH	20.8	13.0	8.4	5.3	2.5	13.4	8.4	5.3	12.7	8.1	4.9	2.5	20.4	27.1	
	C-417-S-T-HH	21.1	13.4	8.8	5.3	2.5	13.4	8.8	5.3	12.7	8.1	4.9	2.5	21.1	27.8	
	C-419-S-T-HH	21.8	13.7	8.8	5.3	2.8	14.1	9.1	5.6	13.0	8.4	5.3	2.5	21.5	28.1	
	C-437-S-T-HH	28.1	17.6	11.6	7.0	3.5	17.9	11.6	7.4	16.9	10.9	6.7	3.2	27.8	36.6	
	C-439-S-T-HH	35.2	22.2	14.4	8.8	4.2	22.5	14.8	8.8	21.1	13.7	8.4	4.2	34.8	46.1	
	C-4311-S-T-HH	39.0	24.3	16.2	9.5	4.9	25.0	16.2	9.9	23.6	15.1	9.1	4.6	38.3	50.7	
C-4313-S-T-HH	42.9	26.7	17.6	10.6	5.3	27.4	17.9	10.9	25.7	16.5	10.2	4.9	42.2	55.9		
C-607-S-T-HH	23.6	14.8	9.5	5.6	2.8	14.8	9.5	6.0	14.1	9.1	5.6	2.8	23.2	30.6		
C-609-S-T-HH	26.4	16.5	10.9	6.3	3.2	16.9	10.9	6.7	15.8	10.2	6.3	3.2	26.0	34.5		

### Suction Line Flow Capacity (kW) – Shells with Replaceable Cores

	REFRIGERANT		22					134a			404A & 507				407C		410A	
	EVAPORATOR TEMPERATURE		5°C	5°C	-5°C	-15°C	-30°C	-40°C	5°C	-5°C	-15°C	-5°C	-15°C	-30°C	-40°C	5°C	5°C	
	PRESSURE DROP (bar)		0.21	0.55*	0.14	0.10	0.07	0.035	0.14	0.10	0.07	0.14	0.10	0.07	0.035	0.21	0.55*	0.21
REPLACEABLE CORE TYPE	RSF-487-T	35.5	<b>61.6</b>	22.2	14.4	8.8	4.2	22.5	14.8	8.8	21.5	14.1	8.1	4.2	35.2	<b>60.8</b>	44.3	<b>77</b>
	RSF-489-T	42.9	<b>74.2</b>	26.7	17.6	10.6	5.3	27.4	17.9	10.9	25.7	16.9	9.9	4.9	42.2	<b>72.8</b>	53.8	<b>92.8</b>
	RSF-4811-T	52.0	<b>90.0</b>	32.7	21.5	12.7	6.3	33.1	21.8	13.0	31.3	20.4	12.0	6.0	51.4	<b>89.0</b>	65.1	<b>113</b>
	RSF-4813-T	55.9	<b>96.7</b>	35.2	22.9	13.7	6.7	35.5	23.6	14.1	33.8	21.8	12.7	6.3	55.2	<b>95.7</b>	70	<b>121</b>
	RSF-4817-T	60.5	<b>105</b>	38.0	25.0	14.8	7.4	38.7	25.3	15.5	36.6	23.9	13.7	7.0	59.8	<b>103</b>	75.6	<b>131</b>
	RSF-4821-T	65.4	<b>113</b>	40.8	26.7	16.2	8.1	41.9	27.4	16.5	39.4	25.7	15.1	7.7	64.7	<b>111</b>	81.9	<b>142</b>
	RSF-9611-T	83.7	<b>137</b>	55.9	39.0	25.0	13.7	55.1	36.9	23.6	50.7	34.5	21.8	11.6	80.5	<b>132</b>	105	<b>172</b>
	RSF-9613-T	105	<b>172</b>	69.6	48.2	30.6	16.5	68.6	45.7	28.5	63.0	42.9	26.7	14.1	101	<b>166</b>	130	<b>216</b>
	RSF-9617-T	105	<b>172</b>	69.6	48.2	30.6	16.5	68.6	45.7	28.5	63.0	42.9	26.7	14.1	101	<b>166</b>	130	<b>216</b>
	RSF-9621-T	105	<b>178</b>	70.3	48.2	30.6	16.5	68.6	45.7	28.5	63.0	42.9	26.7	14.1	102	<b>175</b>	130	<b>216</b>
	RSF-9625-T	106	<b>183</b>	70.3	48.2	30.6	16.5	68.6	45.7	28.5	63.6	42.9	26.7	14.1	105	<b>179</b>	132	<b>223</b>
	C-30013-G	93.6	<b>162</b>	58.7	38.3	22.9	11.3	59.4	38.7	23.6	56.3	36.2	21.8	10.9	92.5	<b>150</b>	—	—
	C-30017-G	95.0	<b>164</b>	59.4	39.0	23.2	11.6	60.5	39.0	23.9	57.0	36.6	22.2	10.9	93.9	<b>152</b>	—	—
	C-40017-G	116	<b>200</b>	72.5	47.5	28.5	14.0	73.9	47.8	29.2	69.6	45.0	25.3	13.4	114	<b>186</b>	—	—
	C-40021-G thru C-40033-G	116	<b>200</b>	72.5	47.5	28.5	14.0	73.9	47.8	29.2	69.6	45.0	25.3	13.4	114	<b>186</b>	—	—

\*Denotes TEMPORARY INSTALLATION. Cores for system clean-up; RPE-48-BD or RPE-100 Filter Elements should be installed after clean-up. Rated in accordance with ARI Standard 730. For a simplified "Quick Selection Guide," request Form 40-109.



## Significance of the Type Number

The letters and numerals in the Catch-All® type number each have a significance. The “C” indicates Catch-All. The **FIRST TWO OR THREE DIGITS** indicate cubic inches of desiccant. The **LAST ONE OR TWO DIGITS** indicate fitting size in eighths of an inch. For sealed models, a “-S” following the last digit indicates solder fittings, and **NO LETTER** indicates a flare fitting. Replaceable core models (C-420 and larger) only have solder connections and the “-S” is omitted. Examples are: C-083 is 8 cu. in. and 3/8” flare, C-309-S is 30 cu. in. and 1-1/8” solder, C-19213-G is 192 cu. in. and 1-5/8” solder.

## Replaceable Cores and Pleated Filter Elements – Order Separately

Cores for replaceable core type filter-driers are molded of exactly the same desiccants that are used in the popular sealed filter-driers.

Cores are individually packed in *metal cans*, fully activated and hermetically sealed against moisture and dirt.

Filter Elements are dried and packed in individual sealed metal cans. This method of packaging prevents the element from picking up moisture from the atmosphere.

Detailed *instructions* are printed on each can. Each can contains a “*triple gasket*” consisting of a new end plate gasket, an end plate gasket for certain competitive filter-driers and a core gasket where desired. See the specifications on page 32 for the number of cores required for each type drier.

**RCW-42** – High Water Capacity Core – Order as separate item – Fits ONLY shell type C-R424, C-R425 and C-R427. **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.

**RC-4864** – Activated Core – Order as separate item – Fits types C-480 thru C-19200 Series shells and Replaceable Suction Filter (RSF) shells. This is the standard core suitable for most installations in the liquid or suction line applications.

**RCW-48GL** – Activated Core – Order as separate item – Fits types C-480 thru C-19200 Series shells and Replaceable Suction Filter (RSF) shells. Core is similar to the RC-4864, but has been reformulated to be an economical alternative for today’s HFC systems. For liquid and suction line service.

**RCW-48** – High Water Capacity Core – Order as separate item – Fits types C-480 thru C-19200 Series shells and Replaceable Suction Filter (RSF) shells. **Designed specially for use with POE**

## HH Style Catch-All for Wax Removal

Small amounts of wax are often a problem on **low temperature systems**. Even well engineered systems frequently contain minute quantities of wax which are sufficient to clog expansion valve screens or cause sticking of the valve. Sporlan has developed a special blend of desiccants including activated charcoal which removes small amounts of wax in the liquid line before this wax can cause trouble at the expansion valve. These Catch-All Filter-Driers have been very successful in correcting trouble jobs in the field.

Select an HH Style Catch-All Filter-Drier if wax problems occur on low temperature systems. In addition to their wax removal ability, these filter-driers will remove all of the other harmful contaminants that the standard filter-driers remove. Listed in the table are various Catch-All models that incorporate the HH style core.

Other suffix letters indicate special qualities. For example:

- “-T” indicates a pressure tap consisting of a Schrader type access valve on the inlet end of the Catch-All.
- “-HH” indicates a charcoal style core for wax removal and clean-up after a hermetic motor burnout.
- “-F” indicates a female flare outlet fitting with a male flare inlet fitting.
- “-FM” indicates a female flare inlet fitting with a male flare outlet fitting.
- “-CAP” indicates a Catch-All particularly designed for installation on capillary tube systems.

**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.



**RC-4864-HH** – Activated Charcoal

Core – Order as separate item – Fits types C-480 thru C-19200 Series shells and Replaceable Suction Filter (RSF) shells. This core should be used for wax removal on low temperature systems, and for clean-up of systems that have had a hermetic motor burnout.

**RPE-48-BD** – Filter Element – Order as separate item – Fits types C-480 thru C-19200 Series shells and **Replaceable Suction Filter (RSF) shells.** This element should be used in RSF shells installed in the **suction line** to obtain the lowest possible pressure drop. In cleaning up a system after a hermetic motor burnout, cores should be used first. Then after the system is thoroughly clean, this filter element can be installed in the RSF shell.

**RC-10098** – Activated Core – Order as separate item – Fits types C-30000 and C-40000 Series shells. This core has a high water capacity and should be used on all standard liquid and suction line applications.

**RCW-100** – High Water Capacity Core – Order as separate item – Fits types C-30000 and C-40000 Series shells. **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.

**RC-10098-HH** – Activated Charcoal Core – Order as separate item – Fits types C-30000 and C-40000 Series shells. This core should be used for wax removal on low temperature systems, and for clean-up of systems that have had a hermetic motor burnout.

**RPE-100** – Filter Element – Order as separate item – Fits types C-30000 and C-40000 Series shells. This filter element should be used in the suction line to obtain the lowest possible pressure drop after cores were used for system clean-up.

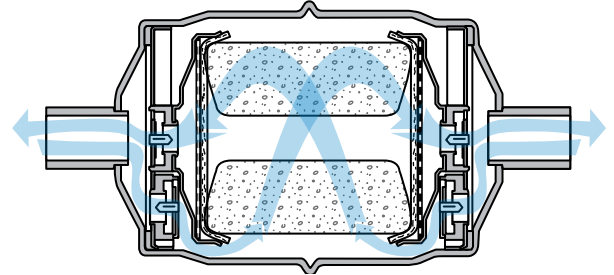
TYPE	CONNECTIONS Inches	TYPE	CONNECTIONS Inches
C-052-HH	1/4 SAE Flare	C-303-HH	3/8 SAE Flare
C-082-HH	1/4 SAE Flare	C-304-HH	1/2 SAE Flare
C-083-HH	3/8 SAE Flare	C-304-S-HH	1/2 ODF Solder
C-162-HH	1/4 SAE Flare	C-305-HH	5/8 SAE Flare
C-163-HH	3/8 SAE Flare	C-305-S-HH	5/8 ODF Solder
C-163-S-HH	3/8 ODF Solder	C-414-HH	1/2 SAE Flare
C-164-HH	1/2 SAE Flare	C-415-HH	5/8 SAE Flare
C-164-S-HH	1/2 ODF Solder	C-417-S-HH	7/8 ODF Solder
C-165-HH	5/8 SAE Flare	RC-4864-HH	Replaceable Core
C-165-S-HH	5/8 ODF Solder	RC-10098-HH	

For dimensions, refer to the specifications for standard filter-driers or consult Bulletin 40-10.



**Design Benefits**

- A 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 molded core used for maximum filtration ability. When the flow direction reverses, dirt already collected remains in the filter-drier.
- 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 oleosin and other reactive chemical constituents in the lubricant.
- Same rugged construction as used in the Catch-All®.



**Specifications – For New Installations**

TYPE NUMBER	CONNECTION SIZE Inches	SELECTION RECOMMEND. kW	DIMENSIONS		SPECIFICATIONS											
			OVERALL LENGTH mm	DIA. mm	FLOW CAPACITY kW @ 0.07 bar ΔP			WATER CAPACITY						LIQUID CAPACITY Grams (wt.) @ 38°C		
					R-22	R-407C	R-410A	R-22 Grams at 60 ppm		R-407C Grams at 50 ppm		R-410A Grams at 50 ppm		R-22	R-407C	R-410A
HPC-103	3/8 Flare	3.5 thru 17.5	171	76	11.9	10.9	11.6	24°C	52°C	24°C	52°C	24°C	52°C	346	304	301
HPC-103-S	3/8 Solder		149		10.8	8.8	9.1	3.0	4.7	3.5						
HPC-104	1/2 Flare		176		15.8	14.4	15.4									
HPC-104-S	1/2 Solder		152													

**Specifications – For Clean-up after Burnout**

TYPE NUMBER	CONNECTION SIZE Inches	SELECTION RECOMMEND. kW	DIMENSIONS		SPECIFICATIONS																	
			OVERALL LENGTH mm	DIA. mm	FLOW CAPACITY kW @ 0.07 bar ΔP			WATER CAPACITY						LIQUID CAPACITY Grams (wt.) @ 38°C								
					R-22	R-407C	R-410A	R-22 Grams at 60 ppm		R-407C Grams at 50 ppm		R-410A Grams at 50 ppm		R-22	R-407C	R-410A						
HPC-163-HH	3/8 SAE Flare	3.5 thru 17.5	198	76	13.0	11.9	12.6	4.7	4.1	4.5	4.4	3.5	5.0	461	360	357						
HPC-163-S-HH	3/8 ODF Solder		176																			
HPC-164-HH	1/2 SAE Flare		202		14.0	13.0	13.7															
HPC-164-S-HH	1/2 ODF Solder		180																			
HPC-165-HH	5/8 SAE Flare		210		17.2	15.8	16.8															
HPC-165-S-HH	5/8 ODF Solder		187																			
HPC-303-HH	3/8 SAE Flare	14 thru 42	275	76	17.9	16.5	17.5	8.4	6.0	8.1	4.4	6.2	5.5	559	491	488						
HPC-303-S-HH	3/8 ODF Solder		256																			
HPC-304-HH	1/2 SAE Flare		281		20.7	18.9	20.3															
HPC-304-S-HH	1/2 ODF Solder		259																			
HPC-305-HH	5/8 SAE Flare		289		21.4	19.6	21															
HPC-305-S-HH	5/8 ODF Solder		265																			
HPC-307-S-HH	7/8 ODF Solder		280																			

HPC-100 Series – Core volume is 164 cm<sup>3</sup>. Core surface filtering area is 116 cm<sup>2</sup>. Maximum rated pressure is 45 bar.  
 HPC-160-HH Series – Core volume is 229 cm<sup>3</sup>. Core surface filtering area is 168 cm<sup>2</sup>. Maximum rated pressure is 45 bar.  
 HPC-300-HH Series – Core volume is 492 cm<sup>3</sup>. Core filtering area is 342 cm<sup>2</sup>. Maximum rated pressure is 45 bar.  
 UL and UL<sub>C</sub> Listed – Guide-SMGT-File No. SA-1756A & B.