



SPORLAN
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90HP Series Filter-Driers[®]

Catch-All[®]
FILTER-DRIERS



ENGINEERING YOUR SUCCESS

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FOR USE ON REFRIGERATION and/or AIR CONDITIONING SYSTEMS ONLY

90HP SERIES SEALED FILTER-DRIERS

The 90HP Series sealed model filter-driers were created for safeguarding HVAC/R CO2 (R-744) systems. The 90HP protects compressors, valves, and other system components from the harmful effects of moisture, acid, and solid debris. This filter-drier is ideal for refrigeration

OEM applications as well as air-conditioning applications that use CO2 (R-744) refrigerant. The high pressure rating of 90 bar (1,305 psi) allows the filter-drier to withstand the high pressures throughout a transcritical CO2 HVAC/R system.



DESIGN FEATURES

- 90 bar (1,305 psi) maximum rated pressure
- 100% molecular sieve solid core for maximum water adsorption
- 10-micron outlet filter pad
- Solid copper fittings for easy brazing
- 500-hour salt spray per ASTM B117
- UL Listed component under File SA1756



REFRIGERANT HOLDING CAPACITY

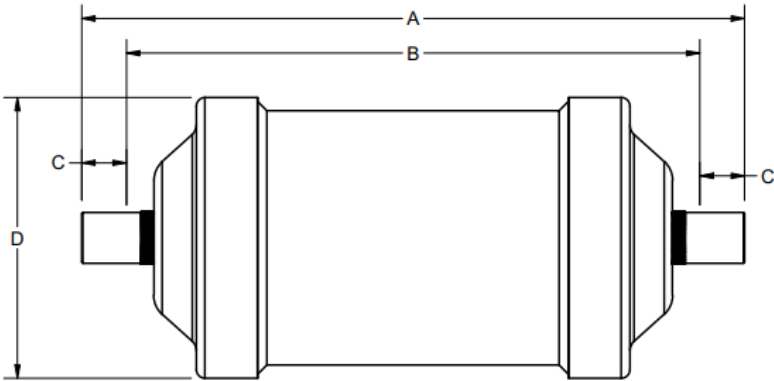
MODEL	OUNCES OF REFRIGERANT BY WEIGHT AT 20°F	GRAMS OF REFRIGERANT BY WEIGHT AT -7°C
C-083-S-90HP	6.6	188

WATER AND FLOW CAPACITY

MODEL	WATER CAPACITY DROPS AT 50 PPM	FLOW CAPACITY TONS AT 1 PSI ΔP (KW AT 0.07 BAR ΔP)	
C-083-S-90HP	75°F (24°C) Liquid	86°F (30°C) Liquid, 5°F (-15°C) SST	20°F (-7°C) Liquid, -20°F (-29°C) SST
	260	4.0 (14.1)	7.6 (26.7)

DIMENSIONS - INCHES (MM)

MODEL	CONNECTION SIZE	A OVERALL LENGTH	B LAY-IN LENGTH	C SOCKET DEPTH	D OUTER DIAMETER
C-083-S-90HP	3/8"	6.52 (165.6)	5.64 (143.3)	0.44 (11.2)	2.76 (70.1)



90HP SERIES REPLACEABLE CORE FILTER-DRIERS

DESIGN FEATURES

- 90 bar (1,305 psi) maximum rated pressure
 - Replaceable core design uses the RCA, RCW, & HH Core types
 - O-ring end plate seal for high pressure containment & reliability
 - Solid copper fittings for easy brazing
- Same internal parts kit as non-90HP version
 - UL recognized component under File SA1756
 - See Bulletin 40-10 for more information about replaceable core filter-driers



REFRIGERANT HOLDING CAPACITY

MODEL	OUNCES OF REFRIGERANT BY WEIGHT AT 20°F	GRAMS OF REFRIGERANT BY WEIGHT AT -7°C
C-487-G-90HP	48	1,355
C-489-G-90HP	49	1,386
C-967-G-90HP	85	2,396
C-969-G-90HP	86	2,426

WATER AND FLOW CAPACITY

MODEL	WATER CAPACITY DROPS AT 50 PPM	FLOW CAPACITY TONS AT 1 PSI ΔP (KW AT 0.07 BAR ΔP)	
		86°F (30°C) Liquid, 5°F (-15°C) SST	20°F (-7°C) Liquid, -20°F (-29°C) SST
C-487-G-90HP	830	13.7 (48.2)	33.7 (118.5)
C-489-G-90HP	830	24.8 (87.2)	60.9 (214.2)
C-967-G-90HP	1,660	22.5 (79.1)	55.3 (194.5)
C-969-G-90HP	1,660	28 (98.5)	68 (239.2)

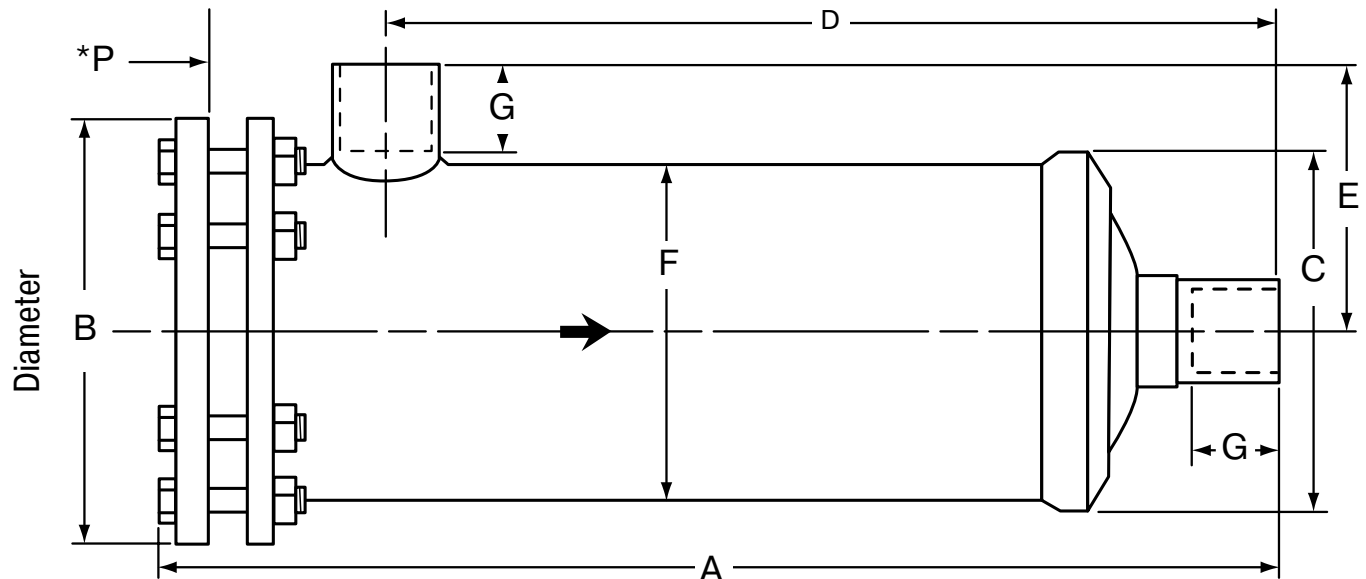
90HP SERIES REPLACEABLE CORE FILTER-DRIERS

DIMENSIONS - INCHES (MM)

MODEL	CONNECTION SIZE INCHES ODF SOLDER		OPTIONAL SECONDARY FILTER**		NO. OF CORES OR FILTER ELEMENTS		CORE PART NUMBER	VOLUME OF DESSICANT in³ (cm³)	MOUNTING BRACKETS
C-487-G-90HP	7/8"		FS-480		1		RCW-48, RCA-48, or RC-4864- HH	48 (787)	481305
C-489-G-90HP	1 1/8"								
C-967-G-90HP	7/8"		FS-960		2			96 (1573)	
C-969-G-90HP	1 1/8"								
SHELL DIMENSIONS IN INCHES (MM)									
	A	B	C	D	E	F	G	*P	
C-487-G-90HP	10.10 (256.4)	7 (177.8)	2.74 (69.6)	6.56 (166.5)	4.62 (117.3)	5 (127)	0.74 (18.7)	7.01 (178.1)	17.3
C-489-G-90HP	10.32 (262.2)	7 (177.8)	2.74 (69.6)	6.78 (172.3)	4.86 (123.3)	5 (127)	0.87 (22)	7.01 (178.1)	17.5
C-967-G-90HP	15.64 (397.2)	7 (177.8)	2.74 (69.6)	12.10 (307.2)	4.62 (117.3)	5 (127)	0.74 (18.7)	12.54 (318.5)	23
C-969-G-90HP	15.86 (402.9)	7 (177.8)	2.74 (69.6)	12.32 (313)	4.86 (123.3)	5 (127)	0.87 (22)	12.54 (318.5)	23.2

* "P" Dimension is the pull space required to change core.

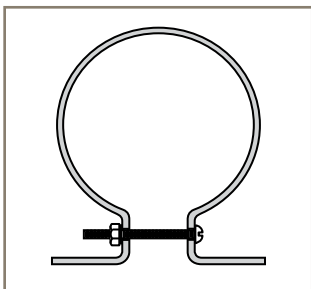
** Optional Secondary Filter must be purchased separately. O-rings (p/n 621-025) are supplied with each secondary filter, but can be purchased separately. The secondary filter cannot be used if the shell is installed in the suction line.



REPLACEMENT PARTS

ITEM NUMBER	PART NUMBER	DESCRIPTION	NOT SUPPLIED IN KIT	C-480 90HP SERIES	C-960 90HP SERIES
				ITEM NUMBER	
				481313	481314
				K-RC480-D	K-RC960-D
481341	30380-000	Bolt 1/2" x 2-1/4" (8 Req'd) Grade 8	X	-	-
481342	30354-000	Nut 1/2" (8 Req'd) Grade 8	X	-	-
481343	30405-000	Washer 1/2" (8 Req'd)	X	-	-
481345	30399-001	End Plate (plain)	X	-	-
481344	30399-000	End Plate ("G" Type)	X	-	-
481101	5310	Pipe Plug ("G")	X	-	-
183174	4493-000	Access valve	X	-	-
480088	JP-2518-000	Valve core	X	-	-
506026	30400-001	O-Ring, Endplate	X	-	-
481116	5383-5	Gasket, Outlet Retainer Plate	-	1	1
480016	JP-741-000	C-480 Outlet Plate Assembly	-	1	-
480018	JP-741-001	C-960 Outlet Plate Assembly	-	-	1
480024	JP-738-000	Plate, Inlet	-	1	1
480026	JP-737-000	Plate, Core Spacer	-	-	1
480028	JP-743-000	Wing Screw	-	1	1
481203	8506-1	End Spring	-	1	1
OPTIONAL SECONDARY FILTER - ORDER SEPARATELY (1)					
Item Number	Filter Part Number	Description	Quantity Required		
481461	FS-480	Filter for C-480 Series Shell	1		
481462	FS-960	Filter for C-960 Series Shell	1		

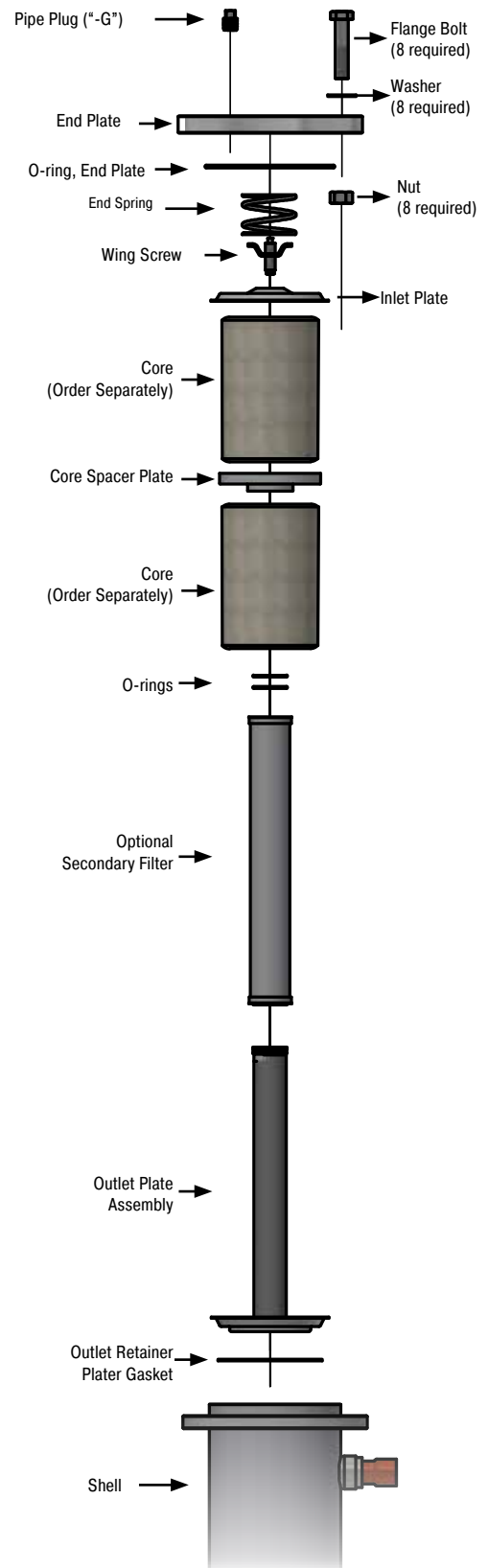
(1) Two o-rings are required for each internal assembly and are supplied with each secondary filter. The o-rings, Item No. 183702, P/N 621-025 can also be purchased separately.



Mounting Bracket

Item No.: 481305 Mounting Bracket for shell types C-480 & C-960 90HP versions only. One bracket per package. Depending on shell size and installation requirements, more than one bracket may be required. Catch-alls larger than C-480 series generally require two brackets. All brackets are supplied with a bolt, nut, and washer.

PARTS EXPLODED VIEW







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