VS Series Filter-Driers

Type VS



Parker's VS Series filterdriers are ideal for protecting air-conditioning systems, compressors, and valves from the harmful effects of moisture, acid, and solid debris.

The compact design reduces lay-in length requirements and reduces refrigerant charge requirements. Multiple size products are available to optimize contaminant control. This product is ideal for OEM air-conditioning applications and private label opportunities.

Specifications:

- 650 psi (45 bar) Maximum Rated Pressure
- 100% molecular sieve to maximize water adsorption
- 10 micron outlet filter (at 50% efficiency)
- 500 hour salt spray per ASTM B117
- UL Recognized component File SA1756 – SMGT2/SMGT8, cURus
- Multiple patents pending
- RoHS and REACH Compliant
- No CE marking according to Art. 3.3 PED 97/23 EC.



Features and Benefits:

- High capacity solid core design for excellent moisture and acid protection in air conditioning systems
- High filtration capacity for solid debris protection
- Unique, compact shape minimizes pressure drop and reduces refrigerant requirements
- Solid copper fittings for easy brazing
- High performance epoxy powder paint for excellent corrosion protection

Refrigerant Holding Capacities:

SERIES SIZE		S OF REFRIC		GRAMS (g) OF REFRIGERANT BY WEIGHT at 38°C				
0.22	R-22	R-407C	R-410A	R-22	R-407C	R-410A		
VS-040	1.3	1.1	1.1	35	33	31		
VS-080	2.6	2.3	2.2	72	67	63		
VS-160	5.2	4.6	4.4	144	134	126		



Dimensions

MODEL		CONNECTION SIZE	OVERALL Inches		SOLDER SOCKET	LAY-IN LENGTH	BODY DIAMETER	
SAE FLARE	ODF SOLDER	Inches	SAE FLARE	ODF SOLDER	DEPTH Inches (mm)	Inches (mm)	Inches (mm)	
-	VS-042S	1/4	_	2.75 (69.9)	0.35 (8.9)	2.05 (52.1)	2.23 (56.6)	
_	VS-043S	3/8	_	2.91 (73.9)	0.42 (10.7)	2.07 (52.5)	2.23 (30.0)	
VS-083	_	3/8	4.26 (108.2)	_	_	4.26 (108.2)		
_	VS-083S	3/8	_	3.38 (85.9)	0.42 (10.7)	2.54 (64.5)	2.77 (70.4)	
VS-084	_	1/2	4.64 (117.9)	_	_	4.64 (117.90)		
_	VS-084S	1/2	_	3.64 (92.5)	0.55 (14.0)	2.54 (64.5)		
VS-163	_	3/8	4.85 (123.2)	_	_	4.85 (123.2)		
_	VS-163S	3/8	-	3.97 (100.8)	0.42 (10.7)	3.13 (79.4)		
VS-164	_	1/2	5.23 (132.8)	_	_	5.23 (132.8)	2 46 (97 0)	
_	VS-164S	1/2	_	4.23 (107.4)	0.54 (13.7)	3.15 (80.0)	3.46 (87.9)	
VS-165	_	5/8	5.63 (143.0)	_	_	5.63 (143.0)		
_	VS-165S	5/8	_	4.49 (114.0)	0.66 (16.8)	3.17 (80.4)		

Selection Recommendations

	RATINGS AT AHRI STANDARD CONDITIONS												SELECTION		
MODEL		DROPS OF WATER CAPACITY*								FLUW CAPACITY				RECOMMEN-	
	R-22		R-134a R		R-407C		R-410A		Tons at 1 psi ΔP (kW at 0.07 bar ΔP)			CAPACITY** Grams	DATIONS Tons (kW)		
	75°F 125°F			_		125°F		125°F	(KW at 0.07 bal AF)			at 5 psi	, ,		
	25°C	52°C	25°C	52°C	25°C	52°C	25°C	52°C	R-22	R-134a	R-407C	R-410A	(0.34 bar) ΔP	OEM	
VS-042S	108	80 1	113	99	88	39	60	50	1.5 (5.3)	1.4 (4.9)	1.3 (4.7)	1.4 (4.9)	3	up to 5 (17.5)	
VS-043S	100	80	113	99	00				4.8 (16.8)	4.4 (15.4)	4.4 (15.4)	4.6 (16.1)			
VS-083			151 212							4.2 (14.7)	3.8 (13.3)	3.8 (13.3)	4.0 (14.0)		
VS-083S	204	151		100	166	70	400	400	5.0 (17.6)	4.6 (16.1)	4.5 (16.0)	4.8 (16.8)	6	3 thru 7.5	
VS-084	204	151		212	186	166	73	120	100	6.4 (22.5)	5.9 (20.7)	5.9 (20.7)	6.2 (21.8)	0	(10.5 thru 26)
VS-084S									8.5 (29.8)	7.8 (27.4)	7.8 (27.4)	8.2 (28.8)			
VS-163			325 458 401	58 401		158	240	200	4.4 (15.4)	4.0 (14.0)	4.0 (14.0)	4.2 (14.7)	10	5 thru 12 (17.5 thru 42)	
VS-163S									5.1 (17.9)	4.7 (16.5)	4.6 (16.3)	4.9 (17.2)			
VS-164	440 005	205			358				7.8 (27.4)	7.1 (24.9)	7.1 (24.9)	7.5 (26.3)			
VS-164S	440	323			338				10.4 (36.5)	9.5 (33.3)	9.5 (33.3)	10.0 (35.1)			
VS-165								10.4 (36.5)	9.5 (33.3)	9.5 (33.3)	10.0 (35.1)				
VS-165S									10.9 (38.2)	10.0 (35.1)	9.9 (34.9)	10.5 (36.9)			

^{*} At 50 ppm EPD per AHRI Standard 710 except R-22 at 60 ppm EPD

20 drops = 1 gram

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^{**} Per ASHRAE Standard 63.2 and AHRI 715230