

BFK LIQUID LINE BI-DIRECTIONAL HEAT PUMP

APPLICATION

- ☆ Bi-directional, solid core liquid line filter-drier for heat pump applications
- ☆ For use with CFC and HCFC refrigerants



FEATURES

- ☆ Available up to 30 cu. in. size
- ☆ Internal check valves allow flow and filtration in either direction. External check valves eliminated
- ☆ High moisture and acid removal
- ☆ Corrosion resistant epoxy powder paint finish
- ☆ Copeland approved for POE oils

SPECIFICATIONS

- ☆ Desiccant blend - 75% molecular sieve and 25% activated alumina
- ☆ Filtration 40 microns
- ☆ Maximum working pressure: 680 psig
- ☆ UL/CUL file number: SA 3124

NOMENCLATURE

Example: BFK 165S

BFK	16	5	S
Series	Unit Size (in cu. in.)	Connection Size (in 1/8")	S = ODF connections (omit for SAE)

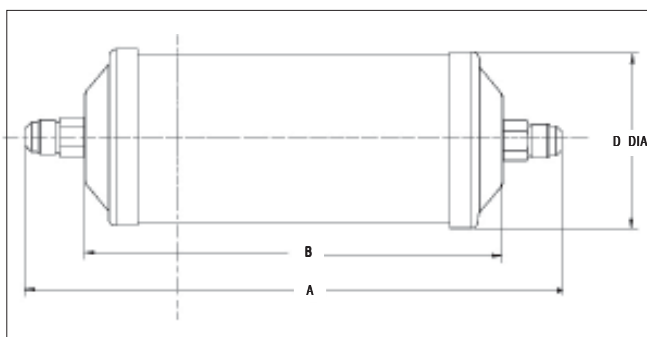
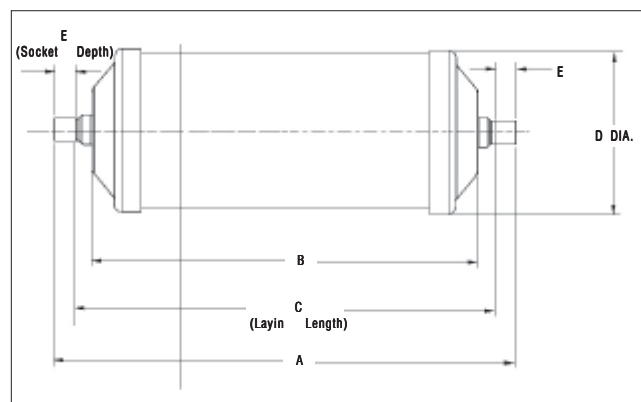
Ordering Information

PCN	Catalog Number	Connection Size	Dimensions					Shipping Weight (lbs.)
			A	B	C	D	E	
062300	BFK 052	1/4 SAE	4.82	2.83	3.69	2.31	.38	1
062425	BFK 052S	1/4 ODF	4.44		3.67		.40	
062255	BFK 053S	3/8 ODF	4.48					
043321	BFK 083	3/8 SAE	5.94	3.94	4.48		.40	
043323	BFK 083S	3/8 ODF	5.29		4.38		.50	
043325	BFK 084	1/2 SAE	6.16		4.35		.63	
043327	BFK 084S	1/2 ODF	5.38			3.06	.40	2
043730	BFK 085S	5/8 ODF	5.60	4.61	5.28		.50	
043330	BFK 163	3/8 SAE	6.74		5.17		.63	
043333	BFK 163S	3/8 ODF	6.08		5.14	3.17	.40	3.75
043335	BFK 164	1/2 SAE	6.96		8.17		.50	
043337	BFK 164S	1/2 ODF	6.17	7.50	8.02		.63	
043732	BFK 165	5/8 SAE	7.41		8.18		.75	
043734	BFK 165S	5/8 ODF	6.39		8.59			
063077	BFK 303S	3/8 ODF	8.97		8.41			
063078	BFK 304	1/2 SAE	9.84					
063079	BFK 304S	1/2 ODF	9.02					
063080	BFK 305	5/8 SAE	10.31					
063081	BFK 305S	5/8 ODF	9.31					
063083	BFK 306S	3/4 ODF	9.72					
063084	BFK 307S	7/8 ODF	9.91					

Standard Product Offering

*Product Code Number

DIMENSIONAL DATA



BFK CAPACITY TABLES

DESCRIPTION	CONNECTIONS	FLOW CAPACITY TONS @ 1 psi ΔP ^{①④} (For kW, multiply tons by 3.5)			WATER CAPACITY ^② DROPS OF WATER ^③					
					R-22		R-407C		R-410A	
		R-22	R-410A	R-407C	75 F	125 F	75 F	125 F	75 F	125 F
BFK 05 2	1/4 SAE	1.6	1.6	1.6	73	66	58	42	39	35
BFK 05 2 S	1/4 ODF	2.2	2.2	2.2						
BFK 05 3 S	3/8 ODF	4.0	4.0	3.9						
BFK 08 3	3/8 SAE	4.5	4.5	4.4	159	144	106	79	85	75
BFK 08 3 S	3/8 ODF	5.1	5.1	5.0						
BFK 08 4	1/2 SAE	6.4	6.4	6.3						
BFK 08 4 S	1/2 ODF	6.7	6.7	6.6						
BFK 08 5 S	5/8 ODF	8.1	8.1	7.9						
BFK 16 3	3/8 SAE	4.6	4.6	4.5	323	294	237	179	178	160
BFK 16 3 S	3/8 ODF	5.2	5.2	5.1						
BFK 16 4	1/2 SAE	7.7	7.7	7.6						
BFK 16 4 S	1/2 ODF	8.1	8.1	7.9						
BFK 16 5	5/8 SAE	8.3	8.3	8.1						
BFK 16 5 S	5/8 ODF	8.7	8.7	8.5	585	532	452	345	415	293
BFK 30 3S	3/8 ODF	5.8	5.8	5.7						
BFK 30 4	1/2 SAE	7.6	7.6	7.5						
BFK 30 4 S	1/2 ODF	9.7	9.7	9.5						
BFK 30 5	5/8 SAE	10.3	10.3	10.1						
BFK 30 5 S	5/8 ODF	14.2	14.2	13.9						
BFK 30 6 S	3/4 ODF	16.0	16.0	15.7						
BFK 30 7 S	7/8 ODF	16.7	16.7	16.4						

^① All ratings in accordance with ARI Standard 710-86. 86°F liquid refrigerant temperature
 5°F saturated vapor temperature
 3.1 lbs./min./ton for R-134a
 2.9 lbs./min./ton for R-22 and R-407C
 4.0 lbs./min./ton for R-404A/507 and R-12
 4.4 lbs./min./ton for R-502
 2.7 lbs./min./ton for R-410A

^② Water Capacities are based on:
 Equilibrium Point Dryness (EPD) of:
 50 parts per million for R-134a, R404-A/507,
 R-410A and R-407C
 60 parts per million for R-22
 15 parts per million for R-12
 30 parts per million for R-502

^③ 20 drops of water = 1 gram = 1 cc

^④ For 2 PSI ΔP, Multiply values by 1.4

LIQUID REFRIGERANT HOLDING CAPACITY - OUNCES

Unit Size	R-22		R-407C		R-410A	
	75°F	125°F	75°F	125°F	75°F	125°F
05	4.6	4.2	4.4	3.9	4.1	3.5
08	7.7	6.9	7.3	6.4	6.9	5.8
16	14.2	12.7	13.5	11.8	12.6	10.6
30	21.0	18.7	20.0	17.4	—	—

R-410A - The BFK filter-drier is UL listed for 680 PSIG maximum working pressure for all sizes.