

The BFKZ is a solid core, bi-directional, liquid line Filter Drier for OEM heat pump applications optimized for use with R-410A.

### Features

- Available 5 to 30 cu. in. size
- Internal check valves allow flow and filtration in either direction, eliminates need for external check valves
- High moisture and acid removal capacity
- Corrosion resistant epoxy powder paint finish
- Copeland® brand products approved for POE oils



### Specifications

- Desiccant Blend: 100% Molecular Sieve Desiccant optimized for high water capacity
- Filtration: 40 microns
- Maximum working pressure: 680 psig
- UL/CUL file number: SA 3124

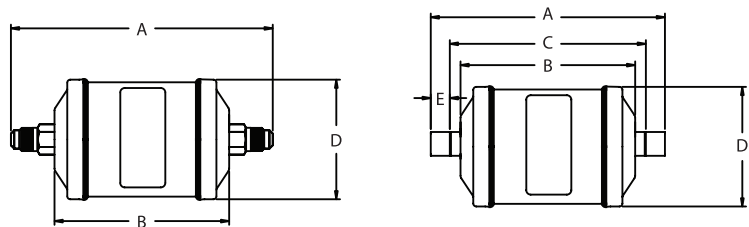
### Nomenclature example: BFKZ 165S

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

### Ordering Information

Description	Connection Size	Dimensions (in)					Weight (lbs)
		A	B	C	D	E	
BFKZ-052	1/4 SAE	4.82	3.0	--	2.64	--	1.00
BFKZ-052S	1/4 ODF	4.15		3.45		0.35	
BFKZ-053	3/8 SAE	5.13		--		--	
BFKZ-053S	3/8 ODF	4.48		3.24		0.62	
BFKZ-054	1/2 SAE	5.36	--	--	0.50	2.00	
BFKZ-054S	1/2 ODF	4.58	3.58	0.63			
BFKZ-0825S	5/16 ODF	5.02	4.38	0.32			
BFKZ-083	3/8 SAE	5.94	--	--			
BFKZ-083S	3/8 ODF	5.29	4.48	0.40	3.14	3.75	
BFKZ-084	1/2 SAE	6.16	--	--			
BFKZ-084S	1/2 ODF	5.38	4.38	0.50			
BFKZ-085	5/8 SAE	6.62	--	--			
BFKZ-085S	5/8 ODF	5.60	4.35	0.63	4.64	3.63	
BFKZ-163	3/8 SAE	6.74	--	--			
BFKZ-163S	3/8 ODF	6.08	5.28	0.40			
BFKZ-164	1/2 SAE	6.96	--	--			
BFKZ-164S	1/2 ODF	6.17	5.17	0.50	7.50	0.91	
BFKZ-165	5/8 SAE	7.41	--	--			
BFKZ-165S	5/8 ODF	6.39	5.14	0.63			
BFKZ-166S	3/4 ODF	6.86	5.60	0.63			
BFKZ-167S	7/8 ODF	6.99	5.49	0.75	3.63	0.96	
BFKZ-305	5/8 SAE	10.31	--	--			
BFKZ-305S	5/8 ODF	9.26	7.74	0.76			
BFKZ-306S	3/4 ODF	9.68	7.76	0.96			
BFKZ-307S	7/8 ODF	9.91	8.41	0.75	10.22	0.91	
BFKZ-309S	1 1/8 ODF	10.22	--	--			

### Dimensional Data



### BFKZ Capacity Tables

Description	Connection	Flow Capacity Tons @ 1 psi ΔP <sup>1,4</sup> (For kW, multiply tons by 3.5)			Water Capacity <sup>2</sup> Drops Of Water <sup>3</sup>					
		R-22	R-410A	R-407C	R-22		R-407C		R-410A	
					75°F	125°F	75°F	125°F	75°F	125°F
BFKZ-05 2	1/4 SAE	1.6	1.6	1.6	95	90	95	90	95	90
BFKZ-05 2S	1/4 ODF	2.2	2.2	2.2						
BFKZ-05 3	3/8 SAE	3.5	3.5	3.4						
BFKZ-05 3S	3/8 ODF	4.0	4.0	3.9						
BFKZ-05 4	1/2 SAE	6.0	6.0	5.9	150	140	150	140	150	140
BFKZ-05 4S	1/2 ODF	6.3	6.3	6.2						
BFKZ-082 5S	5/16 ODF	3.0	3.0	3.0						
BFKZ-08 3	3/8 SAE	4.5	4.5	4.4						
BFKZ-08 3S	3/8 ODF	5.1	5.1	5.0	295	280	295	280	295	280
BFKZ-08 4	1/2 SAE	6.4	6.4	6.3						
BFKZ-08 4S	1/2 ODF	6.7	6.7	6.6						
BFKZ-08 5	5/8 SAE	7.2	7.2	7.0						
BFKZ-08 5S	5/8 ODF	8.1	8.1	7.9	550	540	610	570	610	570
BFKZ-16 3	3/8 SAE	4.6	4.6	4.5						
BFKZ-16 3S	3/8 ODF	5.2	5.2	5.1						
BFKZ-16 4	1/2 SAE	7.7	7.7	7.6						
BFKZ-16 4S	1/2 ODF	8.1	8.1	7.9	18.0	18.0	17.5	17.5	17.5	17.5
BFKZ-16 5	5/8 SAE	8.3	8.3	8.1						
BFKZ-16 5S	5/8 ODF	8.7	8.7	8.5						
BFKZ-16 6S	3/4 ODF	15.0	15.0	14.7						
BFKZ-16 7S	7/8 ODF	16.0	16.0	15.7	16.7	16.7	16.4	16.4	16.4	16.4
BFKZ-30 5	5/8 SAE	10.3	10.3	10.1						
BFKZ-30 5S	5/8 ODF	14.2	14.2	13.9						
BFKZ-30 6S	3/4 ODF	16.0	16.0	15.7						
BFKZ-30 7S	7/8 ODF	16.7	16.7	16.4	18.0	18.0	17.5	17.5	17.5	17.5
BFKZ-30 9S	1-1/8 ODF	18.0	18.0	17.5						

<sup>1</sup> All ratings in accordance with ARI Standard 710-04. 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

<sup>2</sup> 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

<sup>3</sup> 20 drops of water = 1 gram  
= 1 cc

<sup>4</sup> 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	19.6	16.5