

The ADK is a solid core liquid line filter drier good for use with CFC, HCFC, and HFC refrigerants.

Features

- Solid copper connections
- High moisture and acid removal capacity
- Corrosion resistant epoxy powder paint finish
- Copeland™ products approved for POE oils



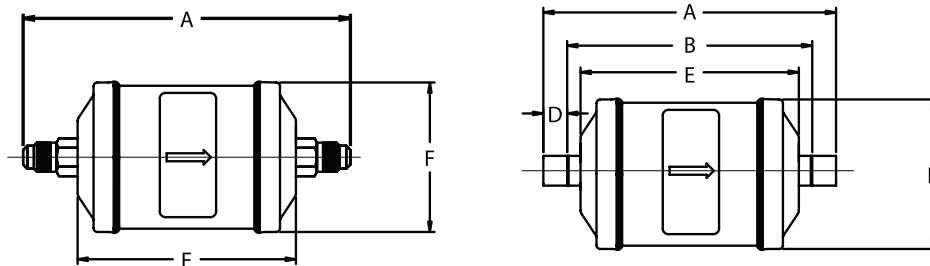
Specifications

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

Nomenclature example: ADK 083S

ADK	08	3	S
Series	Unit Size (in cu. in.)	Connection Size (in 1/8")	S = ODF connections (omit for SAE)

Dimensional Data



Ordering Information

PCN	Description	Connection Size	Dimension (in)					Weight (lbs)
			A	B	D	E	F	
059874	ADK-032	1/4 SAE	4.38			2.57	1.75	0.51
052451	ADK-032S	1/4 ODF	3.83	2.71	0.56			
023157	ADK-033	3/8 SAE	4.69					
053172	ADK-033S	3/8 ODF	4.03	2.79	0.62	3.03	2.64	1.05
060125	ADK-052	1/4 SAE	4.84					
060126	ADK-052S	1/4 ODF	4.17	3.48	0.35			
060127	ADK-053	3/8 SAE	5.15			3.85	2.64	1.25
060128	ADK-053S	3/8 ODF	4.49	3.25	0.62			
060129	ADK-082	1/4 SAE	5.66					
060130	ADK-082S	1/4 ODF	4.99	4.29	0.35	4.78	2.64	1.53
060131	ADK-083	3/8 SAE	5.97					
060132	ADK-083S	3/8 ODF	5.30	4.07	0.62			
060133	ADK-084	1/2 SAE	6.19			5.09	2.64	1.53
060134	ADK-084S	1/2 ODF	5.35	4.09	0.63			
059838	ADK-162S	1/4 ODF	5.35	4.66	0.35			
059820	ADK-162	1/4 SAE	6.59			5.09	2.64	1.53
059839	ADK-163	3/8 SAE	6.90					
060795	ADK-163S	3/8 ODF	6.23	5	0.62			
059840	ADK-164	1/2 SAE	7.12			5.09	2.64	1.53
059841	ADK-164S	1/2 ODF	6.28	5.07	0.60			
059842	ADK-165	5/8 SAE	7.58					
059843	ADK-165S	5/8 ODF	6.55	5.09	0.73			

Ordering Information (cont.)

PCN	Description	Connection Size	Dimension (in)					Weight (lbs)
			A	B	D	E	F	
060172	ADK-303	3/8 SAE	9.66					
058507	ADK-303S	5/8 ODF	9.01	8.2	0.40			
060173	ADK-304	1/2 SAE	9.88					
060176	ADK-304S	1/2 ODF	9.10	8.1	0.50			
060174	ADK-305	5/8 SAE	10.34					
060177	ADK-305S	5/8 ODF	9.32	8.07	0.63			
060178	ADK-307S	7/8 ODF	9.90	8.4	0.75			
060179	ADK-309S	1-1/8 ODF	10.26	8.44	0.90			
060182	ADK-413	3/8 SAE	9.82					
060183	ADK-414	1/2 SAE	10.04					
060185	ADK-414S	1/2 ODF	9.26	8.26	0.50			
060184	ADK-415	5/8 SAE	10.50					
060186	ADK-415S	5/8 ODF	9.48	8.23	0.63			
060187	ADK-417S	7/8 ODF	10.06	8.56	0.75			
060188	ADK-419S	1-1/8 ODF	10.42	8.60	0.91			
060190	ADK-757S	7/8 ODF	15.55	14.05	0.75			
060191	ADK-759S	1-1/8 ODF	15.91	14.10	0.90	13.19	3.64	6.53

Capacity Tables

Description	Connection	Flow Capacity, Tons @ 1 psi ΔP ^{1, 4} (For kW, multiply tons by 3.5)							Water Capacity ² Drops of Water ³														
		R-12		R-134a		R-22		R-407C	R-410A		R-404A/507		R-502		R-744								
		75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	-10°F	25°F						
ADK 032	1/4 SAE	1.6	1.9	2.1	2.1	2.0	1.4	2.7	70	74	68	69	63	57	46	47	36	76	72	71	63	58	64
ADK 032S	1/4 ODF	1.9	2.3	2.5	2.5	2.4	1.7	3.2															
ADK 033	3/8 SAE	2.2	2.7	2.9	2.9	2.9	2.0	3.7															
ADK 033S	3/8 ODF	2.5	3.0	3.3	3.3	3.2	2.2	4.3															
ADK 052	1/4 SAE	1.6	2.0	2.2	2.2	2.1	1.4	2.8	185	195	180	180	130	150	120	125	95	200	190	185	165	144	169
ADK 052S	1/4 ODF	2.4	2.9	3.1	3.1	3.1	2.1	4.0															
ADK 053	3/8 SAE	3.0	3.7	4.0	4.0	3.9	2.7	5.2															
ADK 53S	3/8 ODF	3.7	4.5	4.9	4.9	4.8	3.3	6.3															
ADK 082	1/4 SAE	1.6	2.0	2.2	2.2	2.1	1.4	2.8	250	265	245	250	225	205	165	170	130	275	260	255	230	198	233
ADK 082S	1/4 ODF	2.5	3.1	3.4	3.4	3.3	2.2	4.4															
ADK 083	3/8 SAE	3.5	4.3	4.7	4.7	4.6	3.1	6.1															
ADK 083S	3/8 ODF	3.4	4.2	4.6	4.6	4.5	3.0	5.9															
ADK 084	1/2 SAE	5.5	6.7	7.3	7.3	7.1	4.9	9.4															
ADK 084S	1/2 ODF	5.7	7.0	7.6	7.6	7.4	5.1	9.8															
ADK 162	1/4 SAE	1.6	2.0	2.2	2.2	2.1	1.4	2.8	365	390	360	265	330	300	240	250	190	400	380	375	335	328	386
ADK 163	1/4 SAE	3.6	4.4	4.8	4.8	4.7	3.2	6.2															
ADK 163S	3/8 ODF	4.0	4.9	5.3	5.3	5.2	3.6	6.8															
ADK 164	1/2 SAE	6.8	8.3	9.0	9.0	8.8	6.0	11.6															
ADK 164S	1/2 ODF	7.1	8.6	9.3	9.3	9.1	6.2	12.0															
ADK 165	5/8 SAE	9.7	11.8	12.8	12.8	12.5	8.6	16.5															
ADK 165S	5/8 ODF	10.7	13.1	14.2	14.2	13.9	9.5	18.3															
ADK 167S	7/8 ODF	13.1	16.0	17.3	17.3	17.0	11.8	22.3															
ADK 303	3/8 SAE	3.9	4.7	5.1	5.1	5.0	3.4	6.6	820	865	800	810	740	675	540	555	420	895	845	835	745	676	796
ADK 304	1/2 SAE	7.1	8.6	9.3	9.3	9.1	6.2	12.0															
ADK 304S	1/2 ODF	7.2	8.8	9.5	9.5	9.4	6.4	12.3															
ADK 305	5/8 SAE	11.3	13.8	15.0	15.0	14.7	10.0	19.4															
ADK 305S	4/8 ODF	11.9	14.5	15.7	15.7	15.4	10.5	20.3															
ADK 306S	3/4 ODF	13.0	15.8	17.1	17.1	16.8	11.5	22.1															
ADK 307S	7/8 ODF	14.3	17.4	18.9	18.9	18.5	12.6	24.4															
ADK 309S	1 1/8 ODF	20.4	24.9	27.0	27.0	26.5	18.0	34.8															
ADK 413	3/8 SAE	3.9	4.7	5.1	5.1	5.0	3.4	6.6															
ADK 414	1/2 SAE	8.0	9.8	10.6	10.6	10.4	7.1	13.7															
ADK 414S	1/2 ODF	8.8	10.7	11.6	11.6	11.4	7.8	15.0	1120	1210	1100	1140	1010	945	740	780	580	1260	1156	1170	1020	900	1060
ADK 415	5/8 SAE	12.8	15.6	16.9	16.9	16.6	11.3	21.8															
ADK 415S	5/8 ODF	13.5	16.5	17.9	17.9	17.5	12.0	23.1															
ADK 417S	7/8 ODF	16.6	20.3	22.0	22.0	21.7	14.7	28.4															
ADK 419S	1 1/8 ODF	20.7	25.2	27.3	27.3	26.8	18.3	35.2															
ADK 757S	7/8 ODF	28.0	34.2	37.1	37.1	36.3	24.8	47.9															
ADK 759S	1 1/8 ODF	30.6	37.3	40.4	40.4	39.6	27.0	52.1	1985	2100	1940	1956	1800	1635	1310	1350	1030	2170	2050	2025	1800	1750	2060

¹ 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
 2.7 lbs./min./ton for R-410A
⁵ Since there is currently no ARI standard for R-744,
 values are based on 1 ton of refrigeration at 20°F liquid refrigerant temperature and -20°F saturated vapor temperature.

² Water Capacities are based on:
 Equilibrium Point Dryness (EPD) of:
 50 parts per million for R-134a, R404-A/507,
 R-410A, R-407C and R-744
 60 parts per million for R-22
 15 parts per million for R-12

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-12		R-134a		R-22		R-407C		R-410A		R-404A/507		R-502		R-744	
	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	20°F	-20°F
03	2.4	2.2	2.2	2.0	2.2	2.0	2.1	1.9	2.0	1.7	1.9	1.7	2.7	2.3	1.8	2.0
05	5.9	6.0	5.5	5.5	5.4	5.4	5.2	5.0	4.8	4.5	4.7	4.5	6.0	5.3	4.9	5.4
08	8.0	7.4	7.4	6.7	7.3	6.6	7.0	6.2	6.5	5.5	6.4	5.5	7.7	6.8	5.9	6.5
16	14.5	12.5	13.4	11.4	13.2	11.2	12.6	10.4	11.7	9.4	11.6	9.3	9.5	8.4	10.1	11.2
30	21.8	19.9	20.1	18.1	19.8	17.8	18.9	16.6	17.4	14.9	17.4	14.7	26.7	23.4	16.0	17.7
41	29.3	26.8	26.9	24.4	26.6	23.9	25.4	22.3	23.7	20.0	23.3	19.7	37.2	32.4	21.4	23.8
75	52.8	48.3	48.6	43.9	48.0	43.1	45.8	40.2	42.8	36.0	42.1	35.6	67.2	59.0	38.7	42.9