

LIQUID LINE FILTER DRIER DCH SERIES (SOLID CORE TYPE)

IMAGES



File No. SA33181



SERIES-1.5



SERIES-03



SERIES-05



SERIES-08



SERIES-16



SERIES-30



SERIES-41



SERIES-75



SERIES-1.5



SERIES-03



SERIES-05



SERIES-08



SERIES-16



SERIES-30



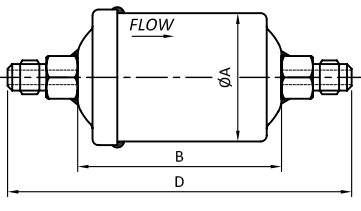
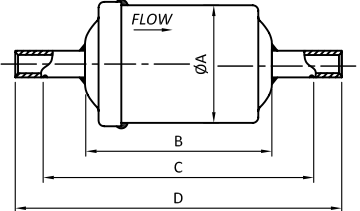
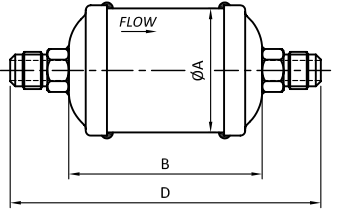
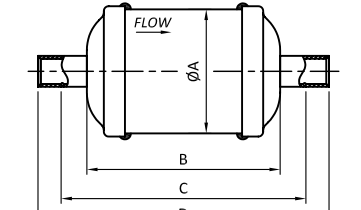
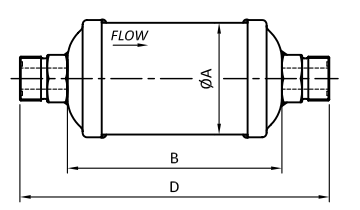
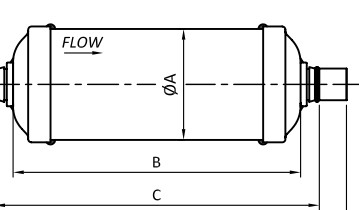
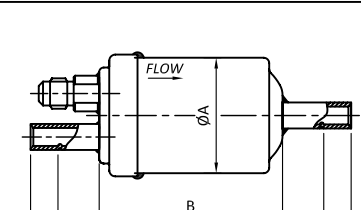
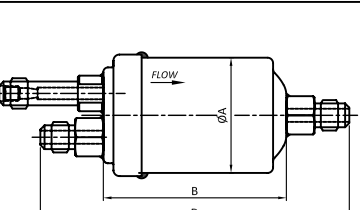
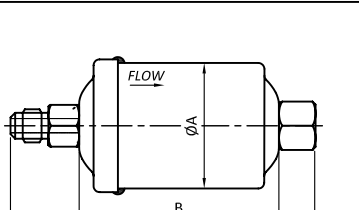
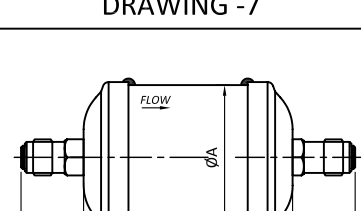
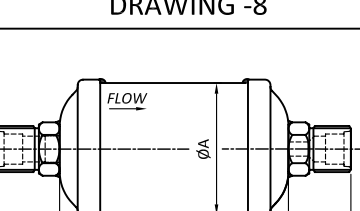
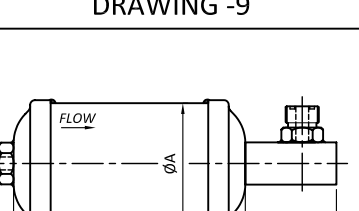
SERIES-41

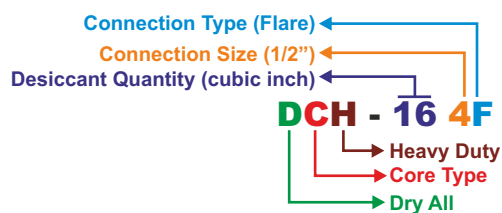


SERIES-75

LIQUID LINE FILTER DRIER DCH SERIES (SOLID CORE TYPE)

DRAWINGS

DIMENSIONAL DATA		
		
DRAWING -1	DRAWING -2	DRAWING -3
		
DRAWING -4	DRAWING -5	DRAWING -6
		
DRAWING -7	DRAWING -8	DRAWING -9
		
DRAWING -10	DRAWING -11	DRAWING -12



LIQUID LINE FILTER DRIER DCH SERIES (SOLID CORE TYPE)

MODELS AVAILABLE

Sr No.	Model	Connection Type	Outer Dia ØA		Body Length B		Stopper To Stopper Length C		Overall Length D		Refer Drawing No.		
			mm	inch	mm	inch	mm	inch	mm	inch			
1	DCH - 032F	1/4" SAE	Ø 42	Ø 1.6	67	2.64	--	--	113	4.45	DRAWING - 1		
2	DCH - 032FF	1/4" SAE (F/M)					--	--	102	4.01	DRAWING - 9		
3	DCH - 032S	1/4" ODF					97	3.82	117	4.61	DRAWING - 2		
4	DCHSV - 032F	1/4" SAE					--	--	113	4.45	DRAWING - 8		
5	DCHSV - 032S	1/4" ODF					97	3.82	117	4.61	DRAWING - 7		
6	DCH-033F	3/8" SAE					--	--	121	4.76	DRAWING - 1		
7	DCH - 033S	3/8" ODF					97	3.82	117	4.61	DRAWING - 2		
8	DCH - 052F	1/4" SAE	Ø 63.5	Ø 2.5	78	3.07	--	--	124	4.88	DRAWING - 3		
9	DCH - 052S	1/4" ODF					108	4.25	128	5.04	DRAWING - 4		
10	DCH - 053F	3/8" SAE					--	--	132	5.20	DRAWING - 3		
11	DCH - 053S	3/8" ODF			104.3	4.11	128	5.04	DRAWING - 4				
12	DCH - 053R	11/16-16 ORFS			--	--	116	4.56	DRAWING - 5				
13	DCH - 082F	1/4" SAE			99	3.90	--	--	145	5.71	DRAWING - 3		
14	DCH - 082S	1/4" ODF					129	5.08	149	5.87	DRAWING - 4		
15	DCH - 083F	3/8" SAE					--	--	153	6.02	DRAWING - 3		
16	DCH - 083S	3/8" ODF					125.5	4.94	149	5.87	DRAWING - 4		
17	DCH - 084F	1/2" SAE					--	--	159	6.26	DRAWING - 3		
18	DCH - 084S	1/2" ODF					125.5	4.94	149	5.87	DRAWING - 4		
19	DCH - 163F	3/8" SAE			122	4.80	--	--	176	6.93	DRAWING - 3		
20	DCH - 163S	3/8" ODF	148.3	5.84			172	6.77	DRAWING - 4				
21	DCH - 163R	11/16-16 ORFS	--	--			160	6.30	DRAWING - 5				
22	DCH - 164F	1/2" SAE	--	--			182	7.17	DRAWING - 3				
23	DCH - 164S	1/2" ODF	148.3	5.84			172	6.77	DRAWING - 4				
24	DCH - 164R	13/16-16 ORFS	--	--			162	6.38	DRAWING - 5				
25	DCH - 165F	5/8" SAE	--	--			190	7.48	DRAWING - 3				
26	DCH - 165S	5/8" ODF	148.3	5.84			172	6.77	DRAWING - 4				
27	DCH - 165R	1"-14 ORFS	--	--			176	6.93	DRAWING - 5				
28	DCHLD - 162R	9/16-18 ORFS	Ø 76.2	Ø 3			110	4.33	--	--	148	5.83	DRAWING - 5
29	DCHLD - 163F	3/8" SAE					--	--	164	6.46	DRAWING - 3		
30	DCHLD - 163R	11/16-16 ORFS			--	--	148	5.83	DRAWING - 5				
31	DCHLD - 163RL	11/16-16 ORFS			113	4.44	--	--	177	6.97	DRAWING - 12		
32	DCHLD - 164R	13/16-16 ORFS			--	--	150	5.91	DRAWING - 5				
33	DCHLD - 164 ORF	1/2" SAE			110	4.33	--	--	176	6.93	DRAWING - 10		
34	DCH - 303F	3/8" SAE			190	7.48	--	--	244	9.61	DRAWING - 3		
35	DCH - 303S	3/8" ODF					216.3	8.52	240	9.45	DRAWING - 4		
36	DCH -303R	11/16-16 ORFS					--	--	228	8.98	DRAWING - 5		
37	DCH -303-ORN	3/8" 'O' RING					--	--	244	9.61	DRAWING - 11		
38	DCH - 304F	1/2" SAE					--	--	250	9.84	DRAWING - 3		
39	DCH - 304S	1/2" ODF					216.3	8.52	240	9.45	DRAWING - 4		
40	DCH - 304R	13/16-16 ORFS					--	--	230	9.06	DRAWING - 5		
41	DCH-304 ORF	1/2"-SAE (Groove)					--	--	256	10.08	DRAWING - 10		
42	DCH - 305F	5/8" SAE					--	--	258	10.08	DRAWING - 3		
43	DCH - 305S	5/8" ODF	216.3	8.52			240	9.45	DRAWING - 4				
44	DCH - 305R	1"-14 ORFS	--	--			244	9.61	DRAWING - 5				
45	DCH-305 ORN	5/8" 'O' RING	--	--			250	9.45	DRAWING - 11				
46	DCH - 306F	3/4" SAE	--	--			264	10.39	DRAWING - 3				
47	DCH - 306S	3/4" ODF	216.3	8.52			240	9.45	DRAWING - 4				
48	DCH - 307S*	7/8" ODF	220	8.66			264	10.39	DRAWING - 6				
49	DCH - 309S*	1-1/8" ODF	220	8.66	274	10.79	DRAWING - 6						
50	DCH - 413F	3/8" SAE	Ø 88.9	Ø 3.5	198	7.80	--	--	258	10.15	DRAWING - 3		
51	DCH -413S	3/8" ODF			224.3	8.83	248	9.76	DRAWING - 4				
52	DCH-414-ORF	1/2"-SAE (Flare Groove)			188	7.40	--	--	254	10.00	DRAWING - 10		
53	DCH - 414F	1/2" SAE			--	--	258	10.16	DRAWING - 3				
54	DCH - 414S	1/2" ODF			224.3	8.38	248	9.76	DRAWING - 4				
55	DCH - 415F	5/8" SAE			198	7.80	--	--	266	10.47	DRAWING - 3		
56	DCH - 415S	5/8" ODF					224.3	8.38	248	9.76	DRAWING - 4		
57	DCH - 415-4F	5/8" SAE (IN) & 1/2" SAE(OUT)					--	--	262	10.31	DRAWING - 3		
58	DCH - 415-4R	1"-14 ORFS (IN) & 13/16-16 ORFS(OUT)			188	7.40	--	--	235	9.25	DRAWING - 5		
59	DCH - 416-5R	1"-1/4 ORFS (IN) & 1"-1/4 ORFS (OUT)			198	7.80	--	--	255	10.04	DRAWING - 5		
60	DCH-417S*	7/8" ODF					228	8.98	272	10.71	DRAWING - 6		
61	DCH-419*	1-1/8" ODF					228	8.98	282	11.10	DRAWING - 6		
62	DCH -757S*	7/8" ODF					341	13.43	385	15.16	DRAWING - 6		
63	DCH- 759S*	1-1/8" ODF			311	12.24	341	13.43	398	15.67	DRAWING - 6		

- 1) Internal Assembly - Solid Core Type
- 2) Maximum Working Pressure - 45 bar (653 psig)
- 3) Temperature range -40°C to 70°C
- 4) SAE, ORFS & 'O' Ring Type Connection are in Steel, Nickel Plated
- 5) ODF Type Connection is in Steel & Nickel Plated
- 6) *Mark Connection Steel Plated

LIQUID LINE FILTER DRIER SELECTION RECOMMENDATIONS DCH



SELECTION RECOMMENDATION

Sr No.	Model	Connections Type	Flow Capacity Ton @ 1psiΔP (for kw multiply Ton by 3.5)				Water Capacity drops of water									
			R-134a	R-22 & R-410A	R-407C	R-404A & R-507	R-134a		R-22		R-407C		R-410A		R-404A & R-507	
							75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
1	DCH - 032F	1/4" SAE	2	2	2	1.42	80	74	75	69	63	52	53	42	82	78
2	DCH - 032FF	1/4" SAE (F/M)														
3	DCH - 032S	1/4" ODF														
4	DCHSV - 032F	1/4" SAE	4.85	4.85	5.42	3.7	201	186	186	136	156	126	131	101	206	196
5	DCHSV - 032S	1/4" ODF														
6	DCH-033F	3/8" SAE														
7	DCH - 033S	3/8" ODF	2	2.28	2.28	1.42	265	245	250	225	205	165	170	130	275	260
8	DCH - 052F	1/4" SAE														
9	DCH - 052S	1/4" ODF														
10	DCH - 053F	3/8" SAE	5.14	5.42	5.42	4	396	366	271	336	306	246	256	196	406	286
11	DCH - 053S	3/8" ODF														
12	DCH - 053R	11/16-16 ORFS														
13	DCH - 082F	1/4" SAE	5.42	6	6	4	490	463	360	342	400	364	350	314	672	364
14	DCH- 082S	1/4" ODF														
15	DCH - 083F	3/8" SAE														
16	DCH - 083S	3/8" ODF	7.42	8.28	8.28	5.71	877	812	822	752	687	552	567	432	907	857
17	DCH - 084F	1/2" SAE														
18	DCH - 084S	1/2" ODF														
19	DCH - 163F	3/8" SAE	6.2	6.8	6.8	4.57	1216	1106	1146	1016	951	746	786	586	1266	1162
20	DCH - 163S	3/8" ODF														
21	DCH - 163R	11/16-16 ORFS														
22	DCH - 164F	1/2" SAE	8.85	9.71	9.71	6.28	2057	1946	1962	1806	1641	1316	1356	1036	2176	2056
23	DCH - 164S	1/2" ODF														
24	DCH - 164R	13/16-16ORFS														
25	DCH - 165F	5/8" SAE	12.2	13.4	13.4	8.57	26.8	29.7	29.2	17.14	23.4	26	25.7	17.14	26.8	29.7
26	DCH - 165S	5/8" ODF														
27	DCH - 165R	1" - 14 ORFS														
28	DCHLD - 162R	9/16-18 ORFS	9.6	10.5	10.5	7.4	20.57	22.57	22.57	15.57	26	28.57	28.57	18.57	23.4	26
29	DCHLD - 163F	3/8" SAE														
30	DCHLD - 163R	11/16-16ORFS														
31	DCHLD - 163RL	11/16-16ORFS	13.31	14.5	14.5	9.7	26.8	29.7	29.2	17.14	23.4	26	25.7	17.14	26.8	29.7
32	DCHLD - 164R	13/16-16 ORFS														
33	DCHLD - 164 ORF	1/2" SAE														
34	DCH - 303F	3/8" SAE	6	6.57	6.57	4.28	26.8	29.7	29.2	17.14	23.4	26	25.7	17.14	26.8	29.7
35	DCH - 303S	3/8" ODF														
36	DCH -303R	11/16-16 ORFS														
37	DCH -303-ORN	3/8" O RING	8.85	9.71	9.71	6.28	2057	1946	1962	1806	1641	1316	1356	1036	2176	2056
38	DCH - 304F	1/2" SAE														
39	DCH - 304S	1/2" ODF														
40	DCH - 304R	13/16-16 ORFS	17.71	19.42	19.42	12.85	2106	1946	1962	1806	1641	1316	1356	1036	2176	2056
41	DCH-304 ORF	1/2" SAE (Groove)														
42	DCH - 305F	5/8" SAE														
43	DCH - 305S	5/8" ODF	17.71	19.42	19.42	12.85	2106	1946	1962	1806	1641	1316	1356	1036	2176	2056
44	DCH - 305R	1" -14 ORFS														
45	DCH-305 ORN	5/8" 'O' Ring														
46	DCH - 306F	3/4" SAE	9	10.2	10.2	6.5	2106	1946	1962	1806	1641	1316	1356	1036	2176	2056
47	DCH - 306S	3/4" ODF														
48	DCH - 307S*	7/8" ODF														
49	DCH - 309S*	1-1/8" ODF	9.14	10	10	6.57	2106	1946	1962	1806	1641	1316	1356	1036	2176	2056
50	DCH - 413F	3/8" SAE														
51	DCH -413S	3/8" ODF														
52	DCH-414-ORF	1/2" SAE (Flare Groove)	15.14	16.57	16.57	10.57	2106	1946	1962	1806	1641	1316	1356	1036	2176	2056
53	DCH - 414F	1/2" SAE														
54	DCH - 414S	1/2" ODF														
55	DCH - 415F	5/8" SAE	20.57	22.57	22.57	15.57	2106	1946	1962	1806	1641	1316	1356	1036	2176	2056
56	DCH - 415S	5/8" ODF														
57	DCH - 415-4F	5/8"SAE(IN) & 1/2 SAE(OUT)														
58	DCH - 415-4R	1"-14 ORFS (IN) & 13/16-16 ORFS(OUT)	26	28.57	28.57	18.57	2106	1946	1962	1806	1641	1316	1356	1036	2176	2056
59	DCH - 416-5R	1"-1/4 ORFS (IN) & 1"-1/4 ORFS (OUT)														
60	DCH-417S*	7/8" ODF														
61	DCH-419*	1-1/8" ODF	23.4	26	25.7	17.14	2106	1946	1962	1806	1641	1316	1356	1036	2176	2056
62	DCH -757S*	7/8"ODF														
63	DCH- 759S*	1-1/8" ODF														

All ratings are in accordance with ANSI/AHRI Standard 710-2009

1. Water in refrigerant at EPD for :

R-134a/R-407C/R-410A/R-404A/R-507A is 50 ppm,

R-22 is 60 ppm.

2. Flow Capacities are based on following standard rating

Flow Rate per Ton of Refrigeration at 86°F Liquid & 5.0°F Saturated Vapor for :

R-134a is 3.1 lb/min/ton,

R-407C is 3.0 lb/min/ton,

R-410A is 2.8 lb/min/ton,

R-404A is 4.1 lb/min/ton,

R-507A is 4.2 lb/min/ton,

R-22 is 3.0 lb/min/ton.