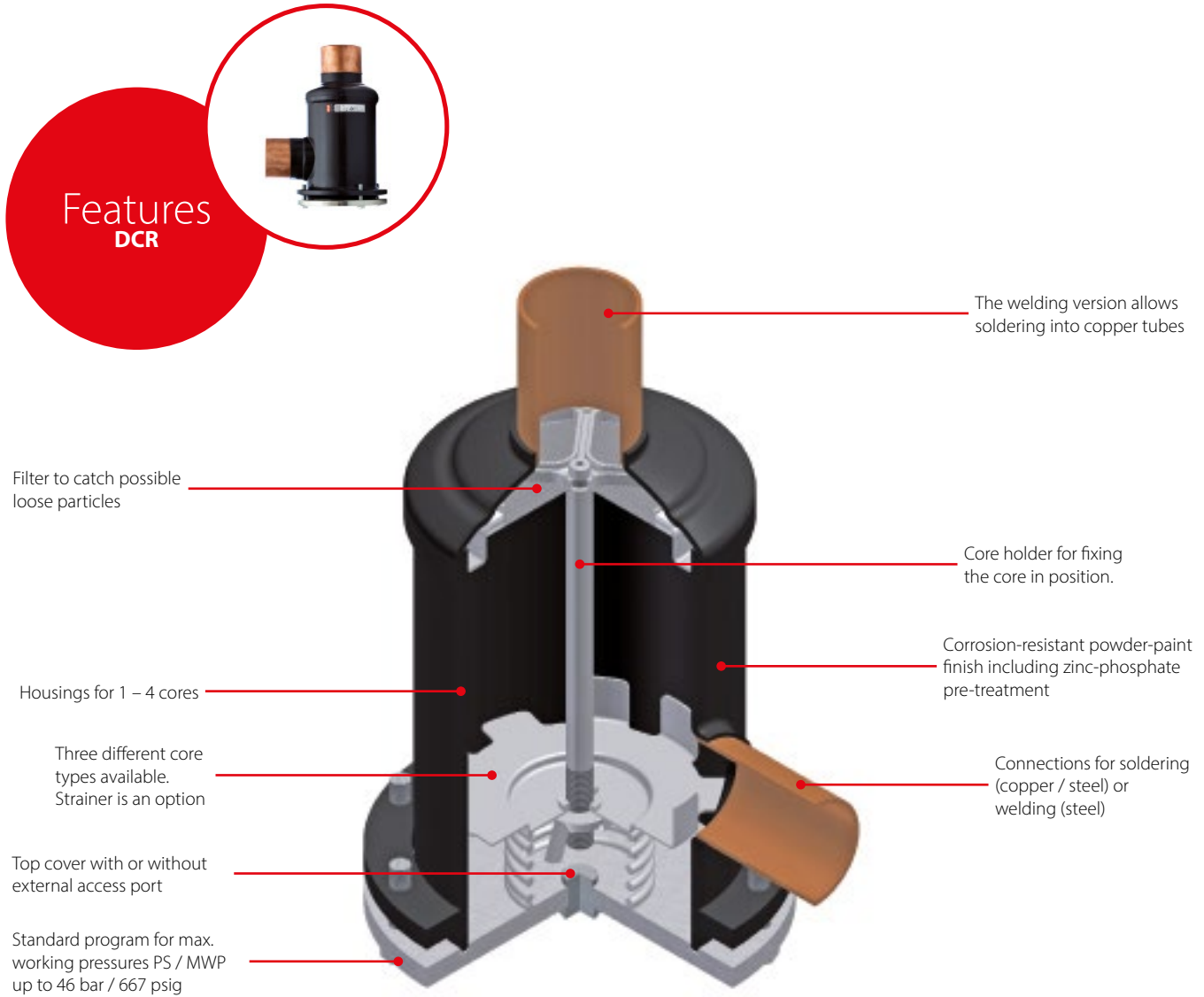


DCR, Filter drier with replaceable solid core

DCR **ELIMINATOR**® filter driers with replaceable solid core protect refrigeration, freezing and air conditioning systems from moisture, acids and solid particles. Besides being able to meet the demanding requirements of high working pressure levels when operating with R410A thanks to replaceable solid cores the DCR programme offers flexibility with respect to different applications.

- Core types:
- 48-DC for HFC, HCFC systems and mineral or AB oils
 - 48-DM for HFC, HCFC systems and POE or PAG oils
 - 48-DA for acid adsorption after burnout
 - 48-F strainer for retaining dirt
- Cores / inserts are ordered separately.



Facts

Application:

- Highly efficient dirt retaining capabilities on both the suction and the liquid line
- Can be used in all environments. Shell is zinc-phosphated, and with corrosion resistant powder-painted finish, tested for 500 hrs in salt spray (acc. to ASTM B117, ISO 12944-6 (blistering))
- The core holder requires minimum free space to remove the core for replacement
- Applicable to R22, R134a, R404A, R410A, R407C, R23, R1234ze, R407f, R452A, R449A, R448A and R450A
- For convenient filter drier commissioning, Shell is designed to remain in place while cores, cover and housing are assembled
- Can be installed in any position
- 48-DM core for liquid line application (100% molecular sieve). Provides high moisture adsorption at low and high condensing temperatures. Effective protection against impurities
- 48-DC core with 80% molecular sieve and 20% activated alumina, adsorbs moisture and acid in the system throughout the entire temperature range
- 48-DA 30% molecular sieve and 70% activated alumina solid core suitable after compressor burn-out: high acid adsorption and standard water adsorption
- 48-F strainer:
 - Retains dirt particles larger than 15 µm
 - For use direct in DCR housings
 - Utilized in the suction or liquid line

Technical data and ordering

DCR - Filter drier with replaceable solid core

Drying and liquid capacity, type 48-DM (SI units)

Type	Number of cores	Drying capacity [kg] of refrigerant ¹⁾										Liquid capacity [kW] ²⁾					Max. working pressure PS [bar]
		R134a		R404A		R507		R407C		R410A		R134a	R404A	R507	R407C	R410A	
		[°C]															
		24	52	24	52	24	52	24	52	24	52						
DCR 0485	1	80.1	75.4	86.3	81.6	88.0	80.9	81.1	74.6	80.1	73.6	63.59	43.91	42.88	69.82	65.48	46
DCR 0487	1	80.1	75.4	86.3	81.6	88.0	80.9	81.1	74.6	80.1	73.6	89.95	62.11	60.65	98.76	92.62	46
DCR 0489	1	80.1	75.4	86.3	81.6	88.0	80.9	81.1	74.6	80.1	73.6	148.28	102.39	99.98	162.81	152.67	46
DCR 04811	1	80.1	75.4	86.3	81.6	88.0	80.9	81.1	74.6	80.1	73.6	176.70	122.01	119.15	194.01	181.94	46
DCR 04813	1	80.1	75.4	86.3	81.6	88.0	80.9	81.1	74.6	80.1	73.6	172.98	119.44	116.64	189.93	178.11	46
DCR 04817	1	80.1	75.4	86.3	81.6	88.0	80.9	81.1	74.6	80.1	73.6	229.70	158.61	154.88	252.21	236.51	46
DCR 04821	1	80.1	75.4	86.3	81.6	88.0	80.9	81.1	74.6	80.1	73.6	287.09	198.23	193.58	315.22	295.60	46
DCR 0967	2	160.2	150.9	172.7	163.1	175.9	161.7	162.3	149.3	160.2	147.3	121.81	84.11	82.14	133.75	125.42	46
DCR 0969	2	160.2	150.9	172.7	163.1	175.9	161.7	162.3	149.3	160.2	147.3	173.20	119.59	116.78	190.17	178.33	46
DCR 09611	2	160.2	150.9	172.7	163.1	175.9	161.7	162.3	149.3	160.2	147.3	196.80	135.89	132.70	216.08	202.63	46
DCR 09613	2	160.2	150.9	172.7	163.1	175.9	161.7	162.3	149.3	160.2	147.3	234.26	161.75	157.96	257.21	241.20	46
DCR 09617	2	160.2	150.9	172.7	163.1	175.9	161.7	162.3	149.3	160.2	147.3	311.07	214.79	209.75	341.55	320.29	35 ³⁾ / 46 ⁴⁾
DCR 1449	3	240.3	226.3	259.0	244.7	263.9	242.6	243.4	223.9	240.3	220.9	193.08	133.32	130.19	211.99	198.80	35 ³⁾ / 46 ⁴⁾
DCR 14411	3	240.3	226.3	259.0	244.7	263.9	242.6	243.4	223.9	240.3	220.9	239.14	165.12	161.24	262.56	246.22	35 ³⁾ / 46 ⁴⁾
DCR 14413	3	240.3	226.3	259.0	244.7	263.9	242.6	243.4	223.9	240.3	220.9	284.65	196.55	191.93	312.54	293.09	35 ³⁾ / 46 ⁴⁾
DCR 14417	3	240.3	226.3	259.0	244.7	263.9	242.6	243.4	223.9	240.3	220.9	377.99	261.00	254.87	415.02	389.19	28 ³⁾ / 40 ⁴⁾
DCR 19211	4	320.4	301.7	345.3	326.2	351.8	323.4	324.6	298.5	320.5	294.5	275.14	189.98	185.52	302.09	283.29	28 ³⁾ / 40 ⁴⁾
DCR 19213	4	320.4	301.7	345.3	326.2	351.8	323.4	324.6	298.5	320.5	294.5	327.51	226.14	220.83	359.59	337.21	28 ³⁾ / 40 ⁴⁾
DCR 19217	4	320.4	301.7	345.3	326.2	351.8	323.4	324.6	298.5	320.5	294.5	465.33	321.30	313.76	510.91	479.12	28 ³⁾ / 40 ⁴⁾

¹⁾ Drying capacity is based on following moisture content test standards before and after drying:

- R134a: 1050 – 50 ppm W
- R404A, R507: 1020 – 50 ppm W
- R407C: 1020 – 50 ppm W
- R410A: 1050 – 50 ppm W

In accordance with ARI 710-2004

²⁾ Given in accordance with ARI 710-2004 for:

- $t_s = -15\text{ °C}$
- $t_c = 30\text{ °C}$
- $\Delta p = 0.07\text{ bar}$

³⁾ For usage with strainer or as a receiver application

⁴⁾ For "drier" application using all the permissible cores

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Technical data and ordering

DCR - Filter drier with replaceable solid core

Drying and liquid capacity, type 48-DM (US units)

Type	Number of cores	Drying capacity [lb] of refrigerant ¹⁾										Liquid capacity [TR] ²⁾					Max. working pressure MWP [psig]
		R134a		R404A		R507		R407C		R410A		R134a	R404A	R507	R407C	R410A	
		[°F]															
		75	125	75	125	75	125	75	125	75	125						
DCR 0485	1	176.6	166.3	190.3	179.8	193.9	178.3	178.9	164.5	176.6	162.3	18.17	12.55	12.25	19.95	18.71	667
DCR 0487	1	176.6	166.3	190.3	179.8	193.9	178.3	178.9	164.5	176.6	162.3	25.70	17.75	17.33	28.22	26.46	667
DCR 0489	1	176.6	166.3	190.3	179.8	193.9	178.3	178.9	164.5	176.6	162.3	42.37	29.25	28.57	46.52	43.62	667
DCR 04811	1	176.6	166.3	190.3	179.8	193.9	178.3	178.9	164.5	176.6	162.3	50.49	34.86	34.04	55.43	51.98	667
DCR 04813	1	176.6	166.3	190.3	179.8	193.9	178.3	178.9	164.5	176.6	162.3	49.42	34.13	33.33	54.27	50.89	667
DCR 04817	1	176.6	166.3	190.3	179.8	193.9	178.3	178.9	164.5	176.6	162.3	65.63	45.32	44.25	72.06	67.57	667
DCR 04821	1	176.6	166.3	190.3	179.8	193.9	178.3	178.9	164.5	176.6	162.3	82.03	56.64	55.31	90.06	84.46	667
DCR 0967	2	353.2	332.6	380.7	359.6	387.8	356.5	357.8	329.1	353.2	324.7	34.80	24.03	23.47	38.21	35.84	667
DCR 0969	2	353.2	332.6	380.7	359.6	387.8	356.5	357.8	329.1	353.2	324.7	49.49	34.17	33.37	54.33	50.95	667
DCR 09611	2	353.2	332.6	380.7	359.6	387.8	356.5	357.8	329.1	353.2	324.7	56.23	38.83	37.91	61.74	57.90	667
DCR 09613	2	353.2	332.6	380.7	359.6	387.8	356.5	357.8	329.1	353.2	324.7	66.93	46.22	45.13	73.49	68.92	667
DCR 09617	2	353.2	332.6	380.7	359.6	387.8	356.5	357.8	329.1	353.2	324.7	88.88	61.37	59.93	97.58	91.51	667
DCR 1449	3	529.7	498.9	571.0	539.4	581.8	534.8	536.7	493.6	529.9	487.0	55.16	38.09	37.20	60.57	56.80	507 ³⁾ / 667 ⁴⁾
DCR 14411	3	529.7	498.9	571.0	539.4	581.8	534.8	536.7	493.6	529.9	487.0	68.32	47.18	46.07	75.02	70.35	507 ³⁾ / 667 ⁴⁾
DCR 14413	3	529.7	498.9	571.0	539.4	581.8	534.8	536.7	493.6	529.9	487.0	81.33	56.16	54.84	89.30	83.74	507 ³⁾ / 667 ⁴⁾
DCR 14417	3	529.7	498.9	571.0	539.4	581.8	534.8	536.7	493.6	529.9	487.0	108.00	74.57	72.82	118.58	111.20	507 ³⁾ / 667 ⁴⁾
DCR 19211	4	706.3	665.1	761.3	719.2	775.7	713.1	715.5	658.1	706.5	649.3	78.61	54.28	53.01	86.31	80.94	406 ³⁾ / 580 ⁴⁾
DCR 19213	4	706.3	665.1	761.3	719.2	775.7	713.1	715.5	658.1	706.5	649.3	93.57	64.61	63.09	102.74	96.35	406 ³⁾ / 580 ⁴⁾
DCR 19217	4	706.3	665.1	761.3	719.2	775.7	713.1	715.5	658.1	706.5	649.3	132.95	91.80	89.65	145.98	136.89	406 ³⁾ / 580 ⁴⁾

¹⁾ Drying capacity is based on the following moisture contents before and after drying:

- R134a: 1050 - 50 ppm W
- R404A, R507: 1020 - 50 ppm W
- R407C: 1020 - 50 ppm W
- R410A: 1050 - 50 ppm W

In accordance with ARI 710-2004

²⁾ Liquid capacity given in accordance with ARI 710-2002 evaporating temperature:

- $t_e = 5\text{ °F}$
- $t_c = 86\text{ °F}$
- $\Delta p = 1\text{ psig}$

³⁾ For usage with strainer or as a receiver application

⁴⁾ For "drier" application using all the permissible cores

Technical data and ordering

DCR - Filter drier with replaceable solid core

Drying and liquid capacity, type 48-DC (SI units)

Type	Number of cores	Drying capacity [kg] of refrigerant ¹⁾										Liquid capacity [kW] ²⁾					Max. working pressure PS [bar]
		R134a		R404A		R507		R407C		R410A		R134a	R404A	R507	R22 / R407C	R410A	
		[°C]															
		24	52	24	52	24	52	24	52	24	52						
DCR 0485	1	62.4	58.8	67.3	63.6	68.6	63.0	63.2	58.2	62.4	57.4	63.59	43.91	42.88	69.82	65.48	46
DCR 0487	1	62.4	58.8	67.3	63.6	68.6	63.0	63.2	58.2	62.4	57.4	89.95	62.11	60.65	98.76	92.62	46
DCR 0489	1	62.4	58.8	67.3	63.6	68.6	63.0	63.2	58.2	62.4	57.4	148.28	102.39	99.98	162.81	152.67	46
DCR 04811	1	62.4	58.8	67.3	63.6	68.6	63.0	63.2	58.2	62.4	57.4	176.70	122.01	119.15	194.01	181.94	46
DCR 04813	1	62.4	58.8	67.3	63.6	68.6	63.0	63.2	58.2	62.4	57.4	172.98	119.44	116.64	189.93	178.11	46
DCR 04817	1	62.4	58.8	67.3	63.6	68.6	63.0	63.2	58.2	62.4	57.4	229.70	158.61	154.88	252.21	236.51	46
DCR 04821	1	62.4	58.8	67.3	63.6	68.6	63.0	63.2	58.2	62.4	57.4	287.09	198.23	193.58	315.22	295.60	46
DCR 0967	2	124.9	117.6	134.6	127.1	137.1	126.1	126.5	116.3	124.9	114.8	121.81	84.11	82.14	133.75	125.42	46
DCR 0969	2	124.9	117.6	134.6	127.1	137.1	126.1	126.5	116.3	124.9	114.8	173.20	119.59	116.78	190.17	178.33	46
DCR 09611	2	124.9	117.6	134.6	127.1	137.1	126.1	126.5	116.3	124.9	114.8	196.80	135.89	132.70	216.08	202.63	46
DCR 09613	2	124.9	117.6	134.6	127.1	137.1	126.1	126.5	116.3	124.9	114.8	234.26	161.75	157.96	257.21	241.20	46
DCR 09617	2	124.9	117.6	134.6	127.1	137.1	126.1	126.5	116.3	124.9	114.8	311.07	214.79	209.75	341.55	320.29	35 ³⁾ / 46 ⁴⁾
DCR 1449	3	187.3	176.4	201.9	190.7	205.7	189.1	189.7	174.5	187.3	172.2	193.08	133.32	130.19	211.99	198.80	35 ³⁾ / 46 ⁴⁾
DCR 14411	3	187.3	176.4	201.9	190.7	205.7	189.1	189.7	174.5	187.3	172.2	239.14	165.12	161.24	262.56	246.22	35 ³⁾ / 46 ⁴⁾
DCR 14413	3	187.3	176.4	201.9	190.7	205.7	189.1	189.7	174.5	187.3	172.2	284.65	196.55	191.93	312.54	293.09	35 ³⁾ / 46 ⁴⁾
DCR 14417	3	187.3	176.4	201.9	190.7	205.7	189.1	189.7	174.5	187.3	172.2	377.99	261.00	254.87	415.02	389.19	28 ³⁾ / 40 ⁴⁾
DCR 19211	4	249.7	235.2	269.2	254.3	274.3	252.1	253.0	232.7	249.8	229.6	275.14	189.98	185.52	302.09	283.29	28 ³⁾ / 40 ⁴⁾
DCR 19213	4	249.7	235.2	269.2	254.3	274.3	252.1	253.0	232.7	249.8	229.6	327.51	226.14	220.83	359.59	337.21	28 ³⁾ / 40 ⁴⁾
DCR 19217	4	249.7	235.2	269.2	254.3	274.3	252.1	253.0	232.7	249.8	229.6	465.33	321.30	313.76	510.91	479.12	28 ³⁾ / 40 ⁴⁾
DCR 19221	4	258.9	244.7	278.3	263.8	283.2	261.7	259.4	239.7	236.1	217.6	442.5	321.7	311.7	460.2	475.8	28 ³⁾ / 40 ⁴⁾

¹⁾ Drying capacity is based on following moisture content test standards before and after drying:

- R134a: 1050 - 50 ppm W
- R404A, R507: 1020 - 50 ppm W
- R407C: 1020 - 50 ppm W
- R410A: 1050 - 50 ppm W

In accordance with ARI 710-2004

²⁾ Given in accordance with ARI 710-2004 for:

- $t_e = -15\text{ °C}$
- $t_c = 30\text{ °C}$
- $\Delta p = 0.07\text{ bar}$

³⁾ For usage with strainer or as a receiver application

⁴⁾ For "drier" application using all the permissible cores

Technical data and ordering

DCR - Filter drier with replaceable solid core

Drying and liquid capacity, type 48-DC (US units)

Type	Number of cores	Drying capacity [lb] of refrigerant ¹⁾										Liquid capacity [TR] ²⁾					Max. working pressure MWP [psig]
		R134a		R404A		R507		R407C		R410A		R134a	R404A	R507	R407C	R410A	
		[°F]															
		75	125	75	125	75	125	75	125	75	125						
DCR 0485	1	137.6	129.6	148.4	140.1	151.2	139.0	139.4	128.2	137.7	126.5	18.17	12.55	12.25	19.95	18.71	667
DCR 0487	1	137.6	129.6	148.4	140.1	151.2	139.0	139.4	128.2	137.7	126.5	25.70	17.75	17.33	28.22	26.46	667
DCR 0489	1	137.6	129.6	148.4	140.1	151.2	139.0	139.4	128.2	137.7	126.5	42.37	29.25	28.57	46.52	43.62	667
DCR 04811	1	137.6	129.6	148.4	140.1	151.2	139.0	139.4	128.2	137.7	126.5	50.49	34.86	34.04	55.43	51.98	667
DCR 04813	1	137.6	129.6	148.4	140.1	151.2	139.0	139.4	128.2	137.7	126.5	49.42	34.13	33.33	54.27	50.89	667
DCR 04817	1	137.6	129.6	148.4	140.1	151.2	139.0	139.4	128.2	137.7	126.5	65.63	45.32	44.25	72.06	67.57	667
DCR 04821	1	137.6	129.6	148.4	140.1	151.2	139.0	139.4	128.2	137.7	126.5	82.03	56.64	55.31	90.06	84.46	667
DCR 0967	2	275.3	259.2	296.7	280.3	302.3	277.9	278.9	256.5	275.4	253.1	34.80	24.03	23.47	38.21	35.84	667
DCR 0969	2	275.3	259.2	296.7	280.3	302.3	277.9	278.9	256.5	275.4	253.1	49.49	34.17	33.37	54.33	50.95	667
DCR 09611	2	275.3	259.2	296.7	280.3	302.3	277.9	278.9	256.5	275.4	253.1	56.23	38.83	37.91	61.74	57.90	667
DCR 09613	2	275.3	259.2	296.7	280.3	302.3	277.9	278.9	256.5	275.4	253.1	66.93	46.22	45.13	73.49	68.92	667
DCR 09617	2	275.3	259.2	296.7	280.3	302.3	277.9	278.9	256.5	275.4	253.1	88.88	61.37	59.93	97.58	91.51	667
DCR 1449	3	412.9	388.9	445.1	420.4	453.5	416.9	418.3	384.7	413.0	379.6	55.16	38.09	37.20	60.57	56.80	507 ³⁾ / 667 ⁴⁾
DCR 14411	3	412.9	388.9	445.1	420.4	453.5	416.9	418.3	384.7	413.0	379.6	68.32	47.18	46.07	75.02	70.35	507 ³⁾ / 667 ⁴⁾
DCR 14413	3	412.9	388.9	445.1	420.4	453.5	416.9	418.3	384.7	413.0	379.6	81.33	56.16	54.84	89.30	83.74	507 ³⁾ / 667 ⁴⁾
DCR 14417	3	412.9	388.9	445.1	420.4	453.5	416.9	418.3	384.7	413.0	379.6	108.00	74.57	72.82	118.58	111.20	507 ³⁾ / 667 ⁴⁾
DCR 19211	4	550.6	518.5	593.4	560.6	604.6	555.8	557.8	513.0	550.7	506.1	78.61	54.28	53.01	86.31	80.94	406 ³⁾ / 580 ⁴⁾
DCR 19213	4	550.6	518.5	593.4	560.6	604.6	555.8	557.8	513.0	550.7	506.1	93.57	64.61	63.09	102.74	96.35	406 ³⁾ / 580 ⁴⁾
DCR 19217	4	550.6	518.5	593.4	560.6	604.6	555.8	557.8	513.0	550.7	506.1	132.95	91.80	89.65	145.98	136.89	406 ³⁾ / 580 ⁴⁾

¹⁾ Drying capacity is based on the following moisture contents before and after drying:

- R134a: 1050 – 50 ppm W
- R404A, R507: 1020 – 50 ppm W
- R407C: 1020 – 50 ppm W
- R410A: 1050 – 50 ppm W

In accordance with ARI 710-2004

²⁾ Liquid capacity given in accordance with ARI 710-2004

- $t_e = 5^\circ\text{F}$
- $t_c = 86^\circ\text{F}$
- $\Delta p = 1 \text{ psig}$

³⁾ For usage with strainer or as a receiver application

⁴⁾ For "drier" application using all the permissible cores

Technical data and ordering

DCR - Filter drier with replaceable solid core

Drying capacity [g] of water ³⁾, type 48-DA (SI units)

Type	Number of cores	Evaporating temperature t _e [°C]												Acid capacity ⁴⁾ [g]
		-40	-20	4.4	-30	-20	4.4	-40	-20	4.4	-40	-20	4.4	
		R407C			R134a			R404A / R507			R410A			
DCR 048	1	28	19	12	45	38	27	47	30	19	42	35	25	26.6
DCR 096	2	56	37	24	90	77	54	94	60	37	84	70	50	53.3
DCR 144	3	84	56	36	135	115	81	142	90	56	126	105	75	79.9
DCR 192	4	112	74	48	180	153	108	189	120	75	168	140	100	106.5

³⁾ Drying capacity is expressed during drying in:

R134a: EPD = 50 ppm W, corresponding to a dew point temperature = -37 °C

R404A: EPD = 10 ppm W, corresponding to a dew point temperature = -40 °C

R407C: EPD = 10 ppm W, corresponding to a dew point temperature = -40 °C

⁴⁾ Adsorption capacity of oleic acid at 0.05 TAN (Total Acid Number)

DCR - Filter drier with replaceable solid core

Drying capacity [lb] of refrigerant ³⁾, type 48-DA (US units)

Type	Number of cores	Evaporating temperature t _e [°F]												Acid capacity ⁴⁾ [g]
		-40	-4	40	-22	-4	40	-40	-4	40	-40	-4	40	
		R407C			R134a			R404A / R507			R410A			
DCR 048	1	28	19	12	45	38	27	47	30	19	42	35	25	0.94
DCR 096	2	56	37	24	90	77	54	94	60	37	84	70	50	1.88
DCR 144	3	84	56	36	135	115	81	142	90	56	126	105	75	2.82
DCR 192	4	112	74	48	180	153	108	189	120	75	168	140	100	3.76

³⁾ Drying capacity is expressed during drying in:

R134a: EPD = 50 ppm W, corresponding to a dew point temperature = -34.6 °F

R404A: EPD = 10 ppm W, corresponding to a dew point temperature = -40 °F

R407C: EPD = 10 ppm W, corresponding to a dew point temperature = -40 °F

⁴⁾ Adsorption capacity of oleic acid at 0.05 TAN (Total Acid Number)

DCR - Filter drier with replaceable solid core

Recommended plant capacity [kW] in suction line - burn-out, type 48-DA (SI units)

Type	Evaporating temperature t _e [°C]											
	-40	-20	4.4	-30	-20	4.4	-40	-20	4.4	-40	-20	4.4
	Pressure drop Δp [bar]											
	0.04	0.10	0.21	0.04	0.07	0.14	0.04	0.10	0.21	0.04	0.10	0.21
	R407C			R134a			R404A / R507			R410A		
DCR 0485	3.1	8.9	21.0	3.0	5.4	13.0	2.4	7.1	17.5	3.1	8.9	21.0
DCR 0487	5.8	16.1	37.8	5.6	9.9	23.4	4.5	12.9	31.2	5.8	16.1	37.8
DCR 0489	7.8	21.6	50.7	7.5	13.3	31.5	6.0	17.2	41.8	7.8	21.6	50.7
DCR 04811	10.0	27.3	63.3	9.6	16.8	39.5	7.7	21.8	51.9	10.0	27.3	63.3
DCR 04813	10.0	27.3	63.3	9.6	16.8	39.5	7.7	21.8	51.9	10.0	27.3	63.3
DCR 04817	10.0	27.3	63.3	9.6	16.8	39.5	7.7	21.8	51.9	10.0	27.3	63.3
DCR 04821	10.0	27.3	63.3	9.6	16.8	39.5	7.7	21.8	51.9	10.0	27.3	63.3
DCR 0965	3.3	9.1	21.4	3.2	5.7	13.4	2.5	7.4	18.0	3.3	9.2	21.6
DCR 0967	5.8	16.2	38.1	5.6	9.9	23.6	4.5	12.9	31.4	5.8	16.2	38.1
DCR 0969	8.7	24.6	58.3	8.4	15.0	35.9	6.8	19.7	48.1	8.7	24.6	58.3
DCR 09611	11.9	33.4	79.3	11.4	20.4	48.9	9.3	26.8	65.4	11.9	33.4	79.3
DCR 09613	14.1	39.9	95.2	13.6	24.3	58.5	11.0	32.0	78.7	14.1	39.9	95.2
DCR 09617	14.1	39.9	95.2	13.6	24.3	58.5	11.0	32.0	78.7	14.1	39.9	95.2
DCR 09621	14.1	39.9	95.2	13.6	24.3	58.5	11.0	32.0	78.7	14.1	39.9	95.2
DCR 1445	3.5	10.0	22.8	3.4	6.0	14.0	2.7	7.7	18.9	3.5	10.0	22.8
DCR 1447	6.6	18.9	42.9	6.3	11.2	26.4	5.1	14.5	35.6	6.6	18.9	42.9
DCR 1449	8.8	25.1	57.2	8.4	15.0	35.2	6.8	19.4	47.5	8.8	25.1	57.2
DCR 14411	13.2	38.1	92.2	12.7	23.0	56.2	10.3	30.7	76.6	13.2	38.1	92.2
DCR 14413	13.2	38.1	92.2	12.7	23.0	56.2	10.3	30.7	76.6	13.2	38.1	92.2
DCR 14417	13.2	38.1	92.2	12.7	23.0	56.2	10.3	30.7	76.6	13.2	38.1	92.2
DCR 14421	13.2	38.1	92.2	12.7	23.0	56.2	10.3	30.7	76.6	13.2	38.1	92.2
DCR 1925	4.2	11.5	27.3	4.0	7.1	16.8	3.2	9.2	22.7	4.2	11.5	27.3
DCR 1927	7.9	21.6	51.4	7.6	13.4	31.6	6.1	17.4	42.7	7.9	21.6	51.4
DCR 1929	10.6	28.9	68.9	10.2	18.0	42.1	8.2	23.3	57.2	10.6	28.9	68.9
DCR 19211	14.8	41.8	99.4	14.3	25.5	61.2	11.6	33.6	82.2	14.8	41.8	99.4
DCR 19213	18.0	51.1	122.1	17.4	31.1	75.0	14.1	41.1	101.0	18.0	51.1	122.1
DCR 19217	18.0	51.1	122.1	17.4	31.1	75.0	14.1	41.1	101.0	18.0	51.1	122.1
DCR 19221	18.0	51.1	122.1	17.4	31.1	75.0	14.1	41.1	101.0	18.0	51.1	122.1

Data given in accordance with ARI-Standard 710-2004 for:

t_e = 4.4 °C

t_e = 32.2 °C

Technical data and ordering

DCR - Filter drier with replaceable solid core

Recommended plant capacity [TR], type 48-DA (US units)

Type	Evaporating temperature t_e [°F]											
	-40	-4	40	-22	-4	40	-40	-4	40	-40	-4	40
	Pressure drop [psig]											
	0.58	1.45	3.05	0.58	1	2.03	0.58	1.45	3.05	0.58	1.45	3.05
	R407C			R134a			R404A / R507			R410A		
DCR 0485	0.9	2.5	6.0	0.9	1.5	3.7	0.7	2.0	5.0	0.9	2.5	6.0
DCR 0487	1.6	4.6	10.7	1.6	2.8	6.7	1.3	3.7	8.9	1.6	4.6	10.7
DCR 0489	2.2	6.1	14.4	2.1	3.8	9.0	1.7	4.9	11.9	2.2	6.1	14.4
DCR 04811	2.8	7.8	18.0	2.7	4.8	11.2	2.2	6.2	14.8	2.8	7.8	18.0
DCR 04813	2.8	7.8	18.0	2.7	4.8	11.2	2.2	6.2	14.8	2.8	7.8	18.0
DCR 04817	2.8	7.8	18.0	2.7	4.8	11.2	2.2	6.2	14.8	2.8	7.8	18.0
DCR 04821	2.8	7.8	18.0	2.7	4.8	11.2	2.2	6.2	14.8	2.8	7.8	18.0
DCR 0965	0.9	2.6	6.1	0.9	1.6	3.8	0.7	2.1	5.1	0.9	2.6	6.1
DCR 0967	1.6	4.6	10.8	1.6	2.8	6.7	1.3	3.7	8.9	1.6	4.6	10.8
DCR 0969	2.5	7.0	16.6	2.4	4.3	10.2	1.9	5.6	13.7	2.5	7.0	16.6
DCR 09611	3.4	9.5	22.5	3.2	5.8	13.9	2.6	7.6	18.6	3.4	9.5	22.5
DCR 09613	4.0	11.3	27.1	3.9	6.9	16.6	3.1	9.1	22.4	4.0	11.3	27.1
DCR 09617	4.0	11.3	27.1	3.9	6.9	16.6	3.1	9.1	22.4	4.0	11.3	27.1
DCR 09621	4.0	11.3	27.1	3.9	6.9	16.6	3.1	9.1	22.4	4.0	11.3	27.1
DCR 1445	1.0	2.8	6.5	1.0	1.7	4.0	0.8	2.2	5.4	1.0	2.8	6.5
DCR 1447	1.9	5.4	12.2	1.8	3.2	7.5	1.5	4.1	10.1	1.9	5.4	12.2
DCR 1449	2.5	7.1	16.3	2.4	4.3	10.0	1.9	5.5	13.5	2.5	7.1	16.3
DCR 14411	3.8	10.8	26.2	3.6	6.5	16.0	2.9	8.7	21.8	3.8	10.8	26.2
DCR 14413	3.8	10.8	26.2	3.6	6.5	16.0	2.9	8.7	21.8	3.8	10.8	26.2
DCR 14417	3.8	10.8	26.2	3.6	6.5	16.0	2.9	8.7	21.8	3.8	10.8	26.2
DCR 14421	3.8	10.8	26.2	3.6	6.5	16.0	2.9	8.7	21.8	3.8	10.8	26.2
DCR 1925	1.2	3.3	7.8	1.1	2.0	4.8	0.9	2.6	6.5	1.2	3.3	7.8
DCR 1927	2.2	6.1	14.6	2.2	3.8	9.0	1.7	4.9	12.1	2.2	6.1	14.6
DCR 1929	3.0	8.2	19.6	2.9	5.1	12.0	2.3	6.6	16.3	3.0	8.2	19.6
DCR 19211	4.2	11.9	28.3	4.1	7.3	17.4	3.3	9.6	23.4	4.2	11.9	28.3
DCR 19213	5.1	14.5	34.7	4.9	8.8	21.3	4.0	11.7	28.7	5.1	14.5	34.7
DCR 19217	5.1	14.5	34.7	4.9	8.8	21.3	4.0	11.7	28.7	5.1	14.5	34.7
DCR 19221	5.1	14.5	34.7	4.9	8.8	21.3	4.0	11.7	28.7	5.1	14.5	34.7

Data given in accordance with ARI-Standard 710-2002 for:

$t_e = 40\text{ °F}$

$t_c = 90\text{ °F}$

Strainer mounted in suction line, type 48-F (SI units)

Refrigerant	R407C			R134a			R404A / R507			R410A		
Evaporating temperature [°C]	-40	-20	4.4	-30	-20	4.4	-40	-20	4.4	-40	-20	4.4
Pressure drop Δp [bar]	0.04	0.10	0.21	0.04	0.07	0.14	0.04	0.10	0.21	0.04	0.10	0.21
Recommended system capacity [kW]	15	47	113	15	28	69	12	38	93	15	47	113

Strainer mounted in liquid line

Refrigerant	R22 / R407C	R134a	R404A / R507	R410A
Recommended system capacity [kW]	390	350	260	390

The data given apply to DCR 04811 with 48-F-core

Liquid capacity is given in accordance with 710-2004 for:

$t_e = -15\text{ °C}$

$t_c = 30\text{ °C}$

$\Delta p = 0.07\text{ bar}$

Strainer mounted in suction line, type 48-F (US units)

Refrigerant	R407C			R134a			R404A / R507			R410A		
Evaporating temperature [°F]	-40	-4	40	-22	-4	40	-40	-4	40	-40	-4	40
Pressure drop Δp [psig]	0.59	1.47	3.09	0.59	1.03	2.06	0.59	1.47	3.09	0.59	1.47	3.09
Recommended system capacity [TR]	4	13	32	4	8	20	3	11	26	4	13	32

Strainer mounted in liquid line

Refrigerant	R407C	R134a	R404A / R507	R410A
Recommended system capacity [TR]	111	100	74	111

The data given apply to DCR 04811 with 48-F core

Liquid capacity is given in accordance with ARI 710-2002 for:

$t_e = 5\text{ °F}$

$t_c = 86\text{ °F}$

$\Delta p = 1\text{ psi}$

Technical data and ordering

DCR - Filter drier with replaceable solid core

Housing + top cover

Type	Number of cores	Steel connectors			Cover type	Max. working pressure PS [bar]	Max. working pressure MWP [psig]	Code no.
		Solder		Butt weld				
		ODF [in]	ODF [mm]	[in]				
DCR 0485	1	5/8	16	1/2	Plug	46	667	023U7050
DCR 0487	1	3/4	22	3/4	Plug	46	667	023U7051
DCR 0487	1	3/4	22	3/4	-	46	667	023U7151
DCR 0489	1	-	28	1	Plug	46	667	023U7052
DCR 0489	1	1 1/8	-	1	Plug	46	667	023U7053
DCR 04811	1	1 3/8	35	1 1/4	Plug	46	667	023U7054
DCR 04813	1	1 1/2	-	1 1/2	Plug	46	667	023U7055
DCR 04813	1	-	42	1 1/2	Plug	46	667	023U7056
DCR 04817	1	2 1/8	54	2	Plug	46	667	023U7057
DCR 04821	1	2 3/8	-	2 1/2	Plug	46	667	023U7076
DCR 0967	2	3/4	22	3/4	Plug	46	667	023U7058
DCR 0969	2	-	28	1	Plug	46	667	023U7059
DCR 0969	2	1 1/8	-	1	Plug	46	667	023U7060
DCR 09611	2	1 3/8	35	1 1/4	Plug	46	667	023U7061
DCR 09611	2	1 3/8	35	1 1/4	-	46	667	023U7161
DCR 09613	2	1 1/2	-	1 1/2	Plug	46	667	023U7062
DCR 09613	2	-	42	1 1/2	Plug	46	667	023U7063
DCR 09617	2	2 1/8	54	2	Plug	46	667	023U7064
DCR 1449	3	-	28	1	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7065
DCR 1449	3	1 1/8	-	1	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7066
DCR 14411	3	1 3/8	35	1 1/4	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7067
DCR 14413	3	1 1/2	-	1 1/2	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7068
DCR 14413	3	-	42	1 1/2	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7069
DCR 14417	3	2 1/8	54	2	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7070
DCR 19211	4	1 3/8	35	1 1/4	Plug	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7071
DCR 19213	4	1 1/2	-	1 1/2	Plug	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7072
DCR 19213	4	-	42	1 1/2	Plug	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7073
DCR 19217	4	2 1/8	54	2	Plug	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7074
DCR 19221	4	2 3/8	-	2 1/2	Plug	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7086

¹⁾ For usage with strainer or as a receiver application

²⁾ For "drier" application all the permissible cores

Technical data and ordering

DCR - Filter drier with replaceable solid core

Housing + top cover

Type	Number of cores	Copper connectors		Cover type	Max. working pressure PS [bar]	Max. working pressure MWP [psig]	Code no.
		Solder					
		ODF [in]	ODF [mm]				
DCR 0485s	1	3/8	16	Plug	46	667	023U7250
DCR 0487s	1	7/8	22	Plug	46	667	023U7251
DCR 0487s	1	7/8	22	-	46	667	023U7571
DCR 0489s	1	-	28	Plug	46	667	023U7252
DCR 0489s	1	1 1/8	-	Plug	46	667	023U7253
DCR 0489s	1	-	28	-	46	667	023U7268
DCR 04811s	1	1 3/8	35	Plug	46	667	023U7254
DCR 04813s	1	1 5/8	-	Plug	46	667	023U7255
DCR 04813s	1	-	42	Plug	46	667	023U7256
DCR 04813s	1	-	42	-	46	667	023U7303
DCR 04817s	1	2 1/8	54	Plug	46	667	023U7257
DCR 04821s	1	2 3/8	-	Plug	46	667	023U7276
DCR 0967s	2	7/8	22	Plug	46	667	023U7258
DCR 0969s	2	-	28	Plug	46	667	023U7259
DCR 0969s	2	1 1/8	-	Plug	46	667	023U7260
DCR 0969s	2	1 1/8	-	-	46	667	023U7278
DCR 09611s	2	1 3/8	35	Plug	46	667	023U7261
DCR 09613s	2	1 5/8	-	Plug	46	667	023U7262
DCR 09613s	2	-	42	Plug	46	667	023U7263
DCR 09613s	2	-	42	-	46	667	023U7463
DCR 09617s	2	2 1/8	54	Plug	46	667	023U7264
DCR 09617s	2	2 3/8	54	-	46	667	023U7290
DCR 09621s	2	2 5/8	-	Plug	46	667	023U7281
DCR 1449s	3	-	28	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7265
DCR 14411s	3	1 3/8	35	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7267
DCR 14411s	3	1 3/8	-	-	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7275
DCR 14413s	3	1 5/8	-	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7282
DCR 14413s	3	-	42	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7269
DCR 14413s	3	1 5/8	42	-	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7297
DCR 14417s	3	2 1/8	54	Plug	35 ¹⁾ / 46 ²⁾	507 ¹⁾ / 667 ²⁾	023U7270
DCR 19211s	4	1 3/8	-	-	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7083
DCR 19213s	4	1 5/8	-	Plug	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7272
DCR 19213s	4	-	42	Plug	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7273
DCR 19213s	4	1 5/8	-	-	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7082
DCR 19217s	4	2 1/8	54	Plug	28 ¹⁾ / 40 ²⁾	406 ¹⁾ / 580 ²⁾	023U7274

¹⁾ For usage with strainer or as a receiver application

²⁾ For "drier" application all the permissible cores

Technical data and ordering



Solid core Strainer

DCR - Inserts with gasket

Ordering

Type	Material	Code no.		
		Industrial pack		Multi pack
		With gasket	Without gasket	With gasket
48-DM solid core	100% molecular sieve	023U1392	023U1393	023U1391
48-DC solid core	80% molecular sieve and 20% Al ₂ O ₃	023U4381	023U4382	023U4380
48-DA solid core	30% molecular sieve and 70% Al ₂ O ₃	023U5381	023U5382	023U5380
48-F strainer	Felt-gasket, 15 µm	023U1921	-	-

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