



## Danfoss *Eliminator*® filter drier with replaceable solid core Type DCR

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**Introduction**

Danfoss Eliminator® filter driers with replaceable solid core, type DCR, are for use in liquid and/or suction lines in refrigeration, freezing and air-conditioning systems.

Besides being able to meet very demanding requirements, i.e. high working pressure levels when operating with R 410A and CO<sub>2</sub>, the new DCR program offers flexibility with respect to different combination possibilities.

The customers can thus choose between two versions, a normal pressure version and a high pressure version.



**Features**

**DCR housings:**

- DCR housings (incl. core holder) are made entirely of steel and are thus compatible with all refrigerants.
- DCR housings have undergone zinc-phosphate pre-treatment and have a corrosion-resistant powder-paint finish.
- DCR housings are helium leak tested.

**Top covers for DCR housings:**

- Zinc-chromated steel top covers with or without external access connection.

**Inserts for DCR housings - solid cores**

**48 - DM** - 100% molecular sieve solid core suitable for HFC refrigerants:

- Provides high moisture adsorption at low and high condensing temperatures.
- Effective protection against impurities.

**48 - DC** - 80% molecular sieve and 20% activated alumina solid core suitable for CFC & HCFC refrigerants and compatible with HFC refrigerants:

- 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 and compatible with CFC / HCFC / HFC refrigerants:

- High acid adsorption and standard water adsorption.

All solid cores have an optimised uniform grain size ensuring effective dirt removal and low pressure drop. The robust solid cores withstand pressure surge and vibration.

**Inserts for DCR housings - strainer**

**48 - F** strainer - compatible with all refrigerants:

- Retains dirt particles larger than 15 µm.
- For use direct in DCR housings.
- Utilised in the suction or liquid line.

**Approvals**

CE marked in accordance with the European Pressure Equipment Directive - 97/23/EC

C(UL)US listed 207 and C22.2 no. 140.3

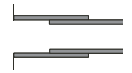
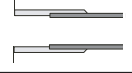
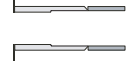
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Technical data

Type	PS / MWP	Refrigerant	Temperature range
DCR 048	35 bar / 500 psig	CFC / HCFC / HFC	-40 → +70°C / -40 → +160°F
DCR 096			
DCR 144			
DCR 192	28 bar / 400 psig		

DCR 048 HP	46 bar / 667 psig	CFC / HCFC / HFC	-40 → +70°C / -40 → +160°F
DCR 096 HP			

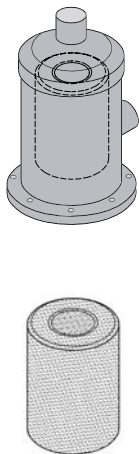
Type of connector and recommended soldering material

	Copper ODF solder connector Copper pipe
	Steel ODF solder connector Copper pipe
	Steel butt weld connector Steel pipe

Solder connector	Recommended soldering material
Copper	Sil-fos 15
Steel	Silver-flo 55 + Easy-flow flux

Capacity

48-DM



Type	Number of cores	Drying capacity [lbs refrigerant] <sup>1)</sup>						Liquid Capacity [TR] <sup>2)</sup>		
		R134a		R404A / R507		R407C / R410A		R22	R134a	R404A / R507
		75°F	125°F	75°F	125°F	75°F	125°F			
DCR 0485 DCR 0487 DCR 0489 DCR 04811 DCR 04813 DCR 04817 DCR 04821	1	181.5	172.7	297	162.8	182.6	156.2	25.0 43.5 58.6 73.7 73.7 73.7 73.7	22.5 39.5 52.9 64.6 64.6 64.6 64.6	16.2 28.2 37.8 46.1 46.1 46.1 46.1
DCR 0965 DCR 0967 DCR 0969 DCR 09611 DCR 09613 DCR 09617 DCR 09621	2	363	345.4	594	325.6	365.2	312.4	25.3 44.1 68.3 92.7 112.7 112.7 112.7	22.8 39.8 61.7 83.9 101.8 101.8 101.8	16.5 28.4 44.1 60.0 72.8 72.8 72.8
DCR 1445 DCR 1447 DCR 1449 DCR 14411 DCR 14413 DCR 14417 DCR14421	3	544.5	518.1	891	488.4	547.8	468.6	26.2 45.5 71.1 112.1 112.1 112.1 112.1	23.6 41.3 64.3 101.3 101.3 101.3 101.3	17.1 29.6 46.1 72.5 72.5 72.5 72.5
DCR 1925 DCR 1927 DCR 1929 DCR 19211 DCR 19213 DCR 19217 DCR 19221	4	726	690.8	1188	651.2	730.4	624.8	31.9 55.5 86.2 116.9 144.8 144.8 144.8	28.7 50.4 78.0 105.8 130.9 130.9 130.9	20.5 35.8 55.8 75.7 93.6 93.6 93.6

48-DC

Type	Number of cores	Drying capacity [lbs refrigerant]								Liquid Capacity [TR]		
		R22		R134a		R404A/ R507		R407C/ R410A		R134a	R404A/ R507	R407C/ R410A
		75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F			
DCR 0485 DCR 0487 DCR 0489 DCR 04811 DCR 04813 DCR 04817 DCR 04821	1	147.4	136.4	156.2	148.5	253	136.4	155.1	132.0	22.5 39.5 52.9 64.6 64.6 64.6 64.6	16.2 28.2 37.8 46.1 46.1 46.1 46.1	25.0 43.5 58.6 73.7 73.7 73.7 73.7
DCR 0965 DCR 0967 DCR 0969 DCR 09611 DCR 09613 DCR 09617 DCR 09621	2	294.8	272.8	312.4	297	506	272.8	310.2	264	22.8 39.8 61.7 83.9 101.8 101.8 101.8	16.5 28.4 44.1 60.0 72.8 72.8 72.8	25.3 44.1 68.3 92.7 112.7 112.7 112.7
DCR 1445 DCR 1447 DCR 1449 DCR 14411 DCR 14413 DCR 14417 DCR14421	3	442.2	409.2	468.6	445.5	759	409.2	465.3	396	23.6 41.3 64.3 101.3 101.3 101.3 101.3	17.1 29.6 46.1 72.5 72.5 72.5 72.5	26.2 45.5 71.1 112.1 112.1 112.1 112.1
DCR 1925 DCR 1927 DCR 1929 DCR 19211 DCR 19213 DCR 19217 DCR 19221	4	589.6	545.6	624.8	594	1012	545.6	620.4	528	28.7 50.4 78.0 105.8 130.9 130.9 130.9	20.5 35.8 55.8 75.7 93.6 93.6 93.6	31.9 55.5 86.2 116.9 144.8 144.8 144.8

<sup>1)</sup> Drying capacity is based on the following moisture contents before and after drying:  
R22: From 1050 ppm W to 60 ppm W in accordance with ARI 710-86.  
R134a: From 1050 ppm W to 75 ppm W. If refrigerant is to be dried to 50 ppm W, reduce the stated capacities by 15%.  
R404A, R407C & R507: From 1020 ppm W to 30 ppm W.  
R410A: From 1050 ppm W to 60 ppm W.  
<sup>2)</sup> Liquid capacity given in accordance with ARI 710-2002 evaporating temperature  $t_e = +5^\circ\text{F}$ , condensing temperature  $t_c = +86^\circ\text{F}$  and pressure drop across filter drier  $\Delta p = 1$  psi.

Capacity (Continued)



48-DA

Type	Number of cores	Drying capacity [lbs refrigerant] <sup>3)</sup>												Acid capacity <sup>4)</sup> [g]
		Evaporating temperature t <sub>e</sub> [°F]												
		-40	-4	40	-22	-4	40	-40	-4	40	-40	-4	40	
		R22			R134a			R404A / R507			R407C / R410A			
DCR 048	1	62.2	42.2	26.7	100.0	84.4	60.0	104.4	66.7	42.2	93.3	77.8	55.6	26.6
DCR 096	2	124.4	82.2	53.3	200.0	171.1	120.0	208.9	133.3	82.2	186.7	155.6	111.1	53.3
DCR 144	3	186.7	124.4	80.0	300.0	255.6	180.0	315.6	200.0	124.4	280.0	233.3	166.7	79.9
DCR 192	4	248.9	164.4	106.7	400.0	340.0	240.0	420.0	266.7	166.7	373.3	311.1	222.2	106.6

- 3) Drying capacity is expressed during drying in:  
 R22: EPD = 10 ppm W, corresponding to a dew point temperature = -58°F  
 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)

48-DA

Recommended plant capacity in suction line - burn-out

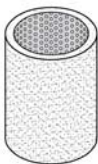


Type	Recommended plant capacity [TR]											
	Evaporating temperature t <sub>e</sub> [°F]											
	-40	-4	40	-22	-4	40	-40	-4	40	-40	-4	40
	Pressure drop [psig]											
	0.04	0.10	0.21	0.04	0.07	0.14	0.04	0.10	0.21	0.04	0.10	0.21
	R22			R134a			R404A / R507			R407C / R410A		
DCR 0485	0.9	2.5	6.0	0.9	1.5	3.7	0.7	2.0	5.0	0.9	8.9	21.0
DCR 0487	1.7	4.6	10.8	1.6	2.8	6.7	1.3	3.7	8.9	1.7	16.1	37.8
DCR 0489	2.2	6.1	14.4	2.1	3.8	9.0	1.7	4.9	11.9	2.2	21.6	50.7
DCR 04811	2.8	7.8	18.0	2.7	4.8	11.2	2.2	6.2	14.8	2.8	27.3	63.3
DCR 04813	2.8	7.8	18.0	2.7	4.8	11.2	2.2	6.2	14.8	2.8	27.3	63.3
DCR 04817	2.8	7.8	18.0	2.7	4.8	11.2	2.2	6.2	14.8	2.8	27.3	63.3
DCR 04821	2.8	7.8	18.0	2.7	4.8	11.2	2.2	6.2	14.8	2.8	27.3	63.3
DCR 0965	0.9	2.6	6.1	0.9	1.6	3.8	0.7	2.1	5.1	0.9	9.2	21.6
DCR 0967	1.7	4.6	10.8	1.6	2.8	6.7	1.3	3.7	8.9	1.7	16.2	38.1
DCR 0969	2.5	7.0	16.6	2.4	4.3	10.2	1.9	5.6	13.7	2.5	24.6	58.3
DCR 09611	3.4	9.5	22.6	3.2	5.8	13.9	2.6	7.6	18.6	3.4	33.4	79.3
DCR 09613	4.0	11.4	27.1	3.9	6.9	16.6	3.1	9.1	22.4	4.0	39.9	95.2
DCR 09617	4.0	11.4	27.1	3.9	6.9	16.6	3.1	9.1	22.4	4.0	39.9	95.2
DCR 09621	4.0	11.4	27.1	3.9	6.9	16.6	3.1	9.1	22.4	4.0	39.9	95.2
DCR 1445	1.0	2.8	6.5	1.0	1.7	4.0	0.8	2.2	5.4	1.0	10.0	22.8
DCR 1447	1.9	5.4	12.2	1.8	3.2	7.5	1.5	4.1	10.1	1.9	18.9	42.9
DCR 1449	2.5	7.1	16.3	2.4	4.3	10.0	1.9	5.5	13.5	2.5	25.1	57.2
DCR 14411	3.8	10.8	26.2	3.6	6.5	16.0	2.9	8.7	21.8	3.8	38.1	92.2
DCR 14413	3.8	10.8	26.2	3.6	6.5	16.0	2.9	8.7	21.8	3.8	38.1	92.2
DCR 14417	3.8	10.8	26.2	3.6	6.5	16.0	2.9	8.7	21.8	3.8	38.1	92.2
DCR 14421	3.8	10.8	26.2	3.6	6.5	16.0	2.9	8.7	21.8	3.8	38.1	92.2
DCR 1925	1.2	3.3	7.8	1.1	2.0	4.8	0.9	2.6	6.5	1.2	11.5	27.3
DCR 1927	2.2	6.1	14.6	2.2	3.8	9.0	1.7	5.0	12.1	2.2	21.6	51.4
DCR 1929	3.0	8.2	19.6	2.9	5.1	12.0	2.3	6.6	16.3	3.0	28.9	68.9
DCR 19211	4.2	11.9	28.3	4.1	7.3	17.4	3.3	9.6	23.4	4.2	41.8	99.4
DCR 19213	5.1	14.5	34.7	5.0	8.8	21.3	4.0	11.7	28.7	5.1	51.1	122.1
DCR 19217	5.1	14.5	34.7	5.0	8.8	21.3	4.0	11.7	28.7	5.1	51.1	122.1
DCR 19221	5.1	14.5	34.7	5.0	8.8	21.3	4.0	11.7	28.7	5.1	51.1	122.1

Data given in accordance with ARI-Standard 710-2002 for t<sub>e</sub> = 40°F and t<sub>c</sub> = 90°F.

48-F

Strainer mounted in suction line



Refrigerant	R22			R134a			R404A/ R507			R407C/ 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	R22	R134a	R404A/ R507	R407C/ R410A
Recommended system capacity [TR]	111	100	74	111

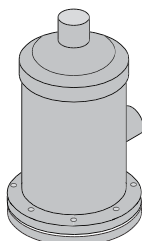
Liquid capacity is given in accordance with ARI 710-2002 at:  
 Evaporating temperature t<sub>e</sub> = +5°F  
 Condensing temperature t<sub>c</sub> = +86°F  
 Pressure drop across filter drier Δp = 1 psi

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

Ordering

Normal-pressure version

DCR housings + top cover



Type	Number of cores	Steel connectors			Code number	Max. working pressure [psig]
		Solder		Butt weld		
		ODF in.	ODF mm	in.		
DCR 0485	1	5/8	16	1/2	023U7050	515
DCR 0487		7/8	22	3/4	023U7051	
DCR 0489			28	1	023U7052	
DCR 0489		1 1/8		1	023U7053	
DCR 04811		1 3/8	35	1 1/4	023U7054	
DCR 04813		1 5/8		1 1/2	023U7055	
DCR 04813			42	1 1/2	023U7056	
DCR 04817		2 1/8	54	2	023U7057	
DCR 04821		2 5/8		2 1/2	023U7076	
DCR 0967		2	7/8	22	3/4	
DCR 0969			28	1	023U7059	
DCR 0969	1 1/8			1	023U7060	
DCR 09611	1 3/8		35	1 1/4	023U7061	
DCR 09613	1 5/8			1 1/2	023U7062	
DCR 09613			42	1 1/2	023U7063	
DCR 09617	2 1/8		54	2	023U7064	
DCR 1449	3		28	1	023U7065	515
DCR 1449		1 1/8		1	023U7066	
DCR 14411		1 3/8	35	1 1/4	023U7067	
DCR 14413		1 5/8		1 1/2	023U7068	
DCR 14413			42	1 1/2	023U7069	
DCR 14417		2 1/8	54	2	023U7070	
DCR 19211	4	1 3/8	35	1 1/4	023U7071	410
DCR 19213		1 5/8		1 1/2	023U7072	
DCR 19213			42	1 1/2	023U7073	
DCR 19217		2 1/8	54	2	023U7074	

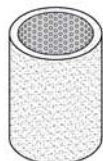
Type	Number of cores	Copper connectors		Code number	Max. working pressure [psig]
		Solder			
		ODF in.	ODF mm		
DCR 0485s	1	5/8	16	023U7250	515
DCR 0487s		7/8	22	023U7251	
DCR 0489s			28	023U7252	
DCR 0489s		1 1/8		023U7253	
DCR 04811s		1 3/8	35	023U7254	
DCR 04813s		1 5/8		023U7255	
DCR 04813s			42	023U7256	
DCR 04817s		2 1/8	54	023U7257	
DCR 04821s		2 5/8		023U7276	
DCR 0967s		2	7/8	22	
DCR 0969s			28	023U7259	
DCR 0969s	1 1/8			023U7260	
DCR 09611s	1 3/8		35	023U7261	
DCR 09613s	1 5/8			023U7262	
DCR 09613s			42	023U7263	
DCR 09617s	2 1/8		54	023U7264	
DCR 09621s	2 5/8		023U7281		
DCR 1449s	3		28	023U7265	515
DCR 14411s		1 3/8	35	023U7267	
DCR 14413s		1 5/8		023U7282	
DCR 14413s			42	023U7269	
DCR 14417s		2 1/8	54	023U7270	
DCR 19213s	4	1 5/8		023U7272	410
DCR 19213s			42	023U7273	
DCR 19217s		2 1/8	54	023U7274	

## Ordering (cont.)

**High-pressure version**

DCR housings + top cover

Type	Number of cores	High-pressure steel connectors			Code no.	Max. working pressure (PS/MWP)
		Solder		Butt weld		
		ODF in.	ODF mm	in.		
DCR 0487	1	7/8	22	3/4	<b>023U7451</b>	46 bar
DCR 0489			28	1	<b>023U7452</b>	
DCR0489		1 1/8		1	<b>023U7453</b>	
DCR 04811		1 3/8	35	1 1/4	<b>023U7454</b>	
DCR 04813		1 5/8		1 1/2	<b>023U7455</b>	
DCR 04817		2 1/8	54	2	<b>023U7457</b>	
DCR 0967	2	7/8	22	3/4	<b>023U7458</b>	46 bar
DCR 0969			28	1	<b>023U7459</b>	
DCR 09611		1 3/8	35	1 1/4	<b>023U7461</b>	
DCR 09613		1 5/8		1 1/2	<b>023U7462</b>	
DCR 09617		2 1/8	54	2	<b>023U7464</b>	


**DCR inserts**

Type	Material	Code no.		
		8 pcs.		1 piece with gasket
		with gasket	without gasket	
48-DM solid core	100% molecular sieve	<b>023U1392</b>	<b>023U1393</b>	<b>023U1391</b>
48-DC solid core	80% molecular sieve & 20% AA	<b>023U4381</b>	<b>023U4382</b>	<b>023U4380</b>
48-DA solid core	30% molecular sieve & 70% AA	<b>023U5381</b>	<b>023U5382</b>	<b>023U5380</b>
48-F strainer		<b>023U1921</b>		

*Core surface*

DM 048, DC 048 and DA 048	= 67 in <sup>2</sup>
DM 096, DC 096 and DA 096	= 135 in <sup>2</sup>
DM 144, DC 144 and DA 144	= 202 in <sup>2</sup>
DM 192, DC 192 and DA 192	= 270 in <sup>2</sup>
48-F	= 63 in <sup>2</sup>

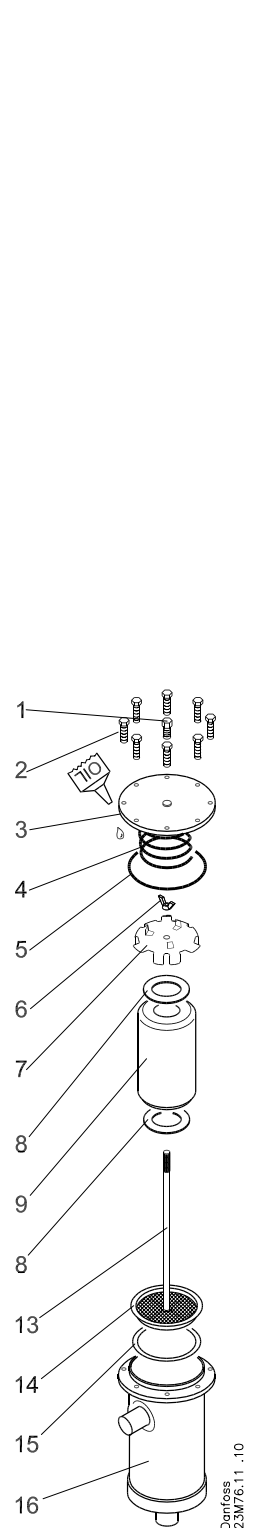
*Core volume*

DM 048, DC 048 and DA 048	= 46 in <sup>3</sup>
DM 096, DC 096 and DA 096	= 93 in <sup>3</sup>
DM 144, DC 144 and DA 144	= 139 in <sup>3</sup>
DM 192, DC 192 and DA 192	= 186 in <sup>3</sup>

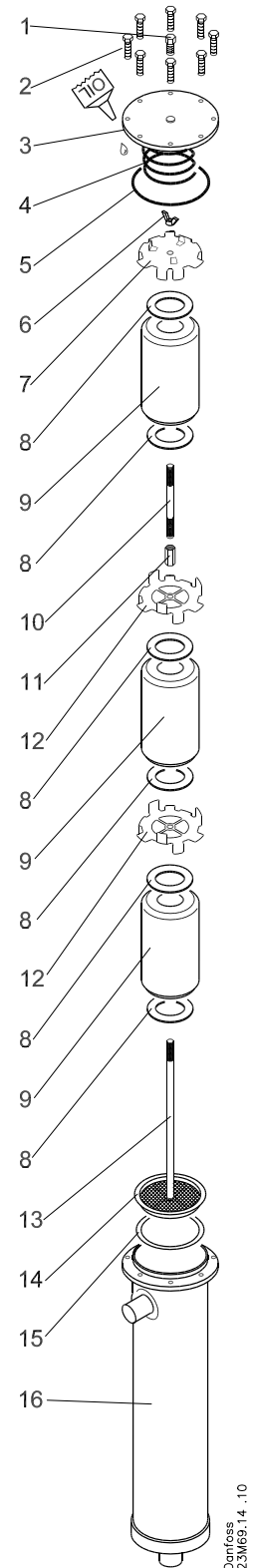
Design

Example:

1. Plug 1/4 in. NPT
2. Top cover bolts  
M8 × 35, class 10.9
3. Top cover
4. Spring
5. Top cover gasket  
4.80" × 4.47" × 1/32"
6. Wing nut  
M10 (torque max. 3 Nm)
7. Top plate
8. Felt gasket  
3.76" × 1.79" × 5/64"
9. Solid core
10. Extension rod
11. Extension nut
12. Intermediate plate
13. Distance rod
14. Bottom plate / strainer
15. Felt gasket  
3.76" × 3.07" × 5/64"
16. Filter drier shell

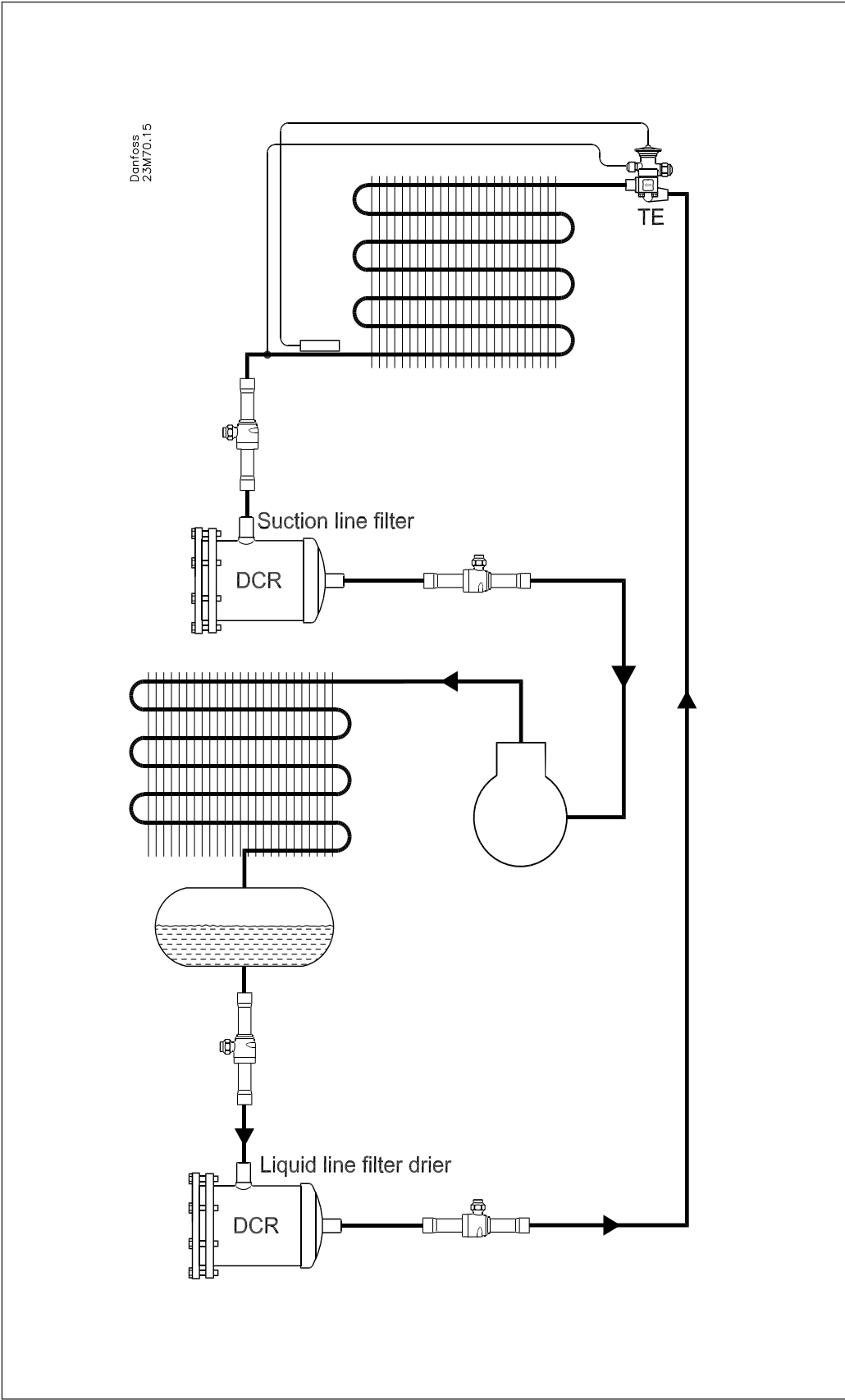


DCR with core holder, one core

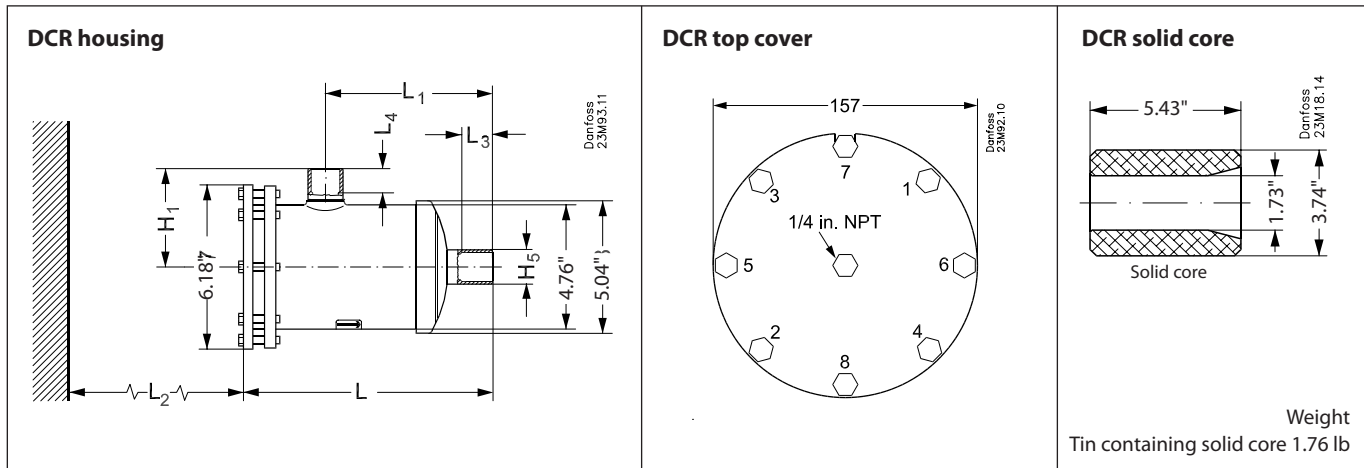


DCR with core holder, three cores

Application



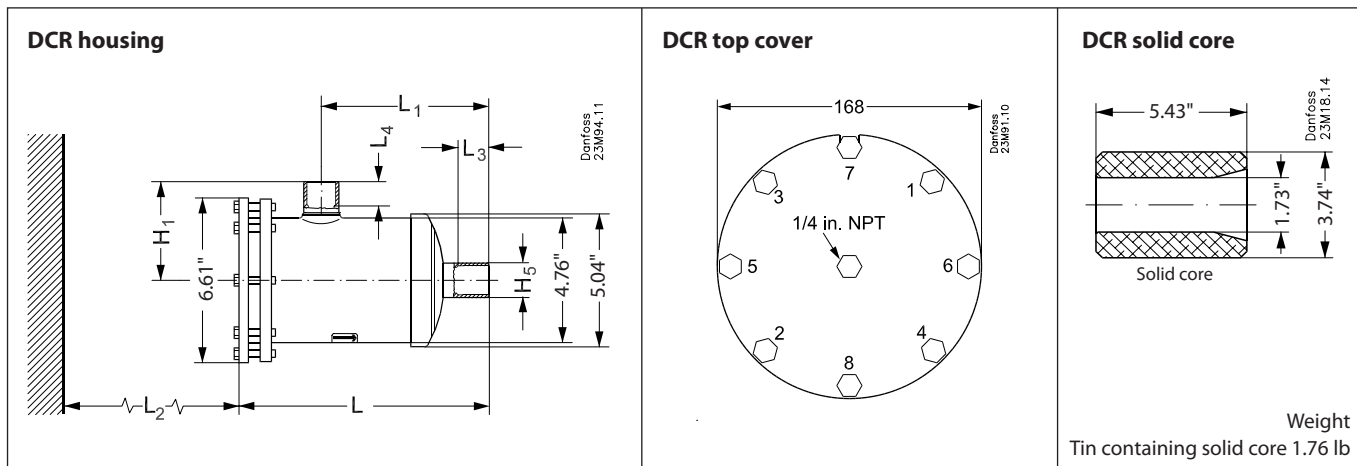
Dimensions and weights for normal-pressure version



Type	Number of cores	DCR with steel connectors							DCR with copper connectors							Weight lb
		L in.	L <sub>1</sub> in.	L <sub>2</sub> in.	L <sub>3</sub> in.	L <sub>4</sub> in.	H <sub>1</sub> in.	H <sub>5</sub> in.	L in.	L <sub>1</sub> in.	L <sub>2</sub> in.	L <sub>3</sub> in.	L <sub>4</sub> in.	H <sub>1</sub> in.	H <sub>5</sub> in.	
DCR 0485	1	9.66	6.50	6.69	0.47	0.47	3.78	0.83	10.33	7.17	6.69	0.47	0.47	4.45	0.75	12
DCR 0487		9.43	6.26		0.67	0.67	3.54	1.06	10.33	7.13		0.67	0.67	4.45	0.98	
DCR 0489		9.59	6.38		0.87	0.87	3.70	1.34	10.41	7.24		0.79	0.79	4.57	1.26	
DCR 0489		9.59	6.38		0.87	0.87	3.70	1.34	10.41	7.24		0.79	0.79	4.57	1.26	
DCR 04811		9.66	6.50		0.98	0.98	3.82	1.65	10.53	7.32		0.98	0.98	4.69	1.54	
DCR 04813		9.86	6.69		1.14	1.14	4.06	1.89	10.57	7.40		1.14	1.14	4.76	1.81	
DCR 04817		10.10	6.93		1.30	1.30	4.37	2.36	10.65	7.48		1.34	1.34	4.92	2.28	
DCR 04821		10.02	6.85		1.50	1.50	4.57	2.87	10.53	7.36		1.34	1.34	5.08	2.80	
DCR 0965	2	15.14	11.97	12.20	0.47	0.47	3.78	0.83	15.81	12.64	12.20	0.47	0.47	4.45	0.75	15
DCR 0967		14.90	11.73		0.67	0.67	3.54	1.06	15.81	12.60		0.67	0.67	4.45	0.98	
DCR 0969		15.06	11.85		0.87	0.87	3.70	1.34	15.88	12.72		0.79	0.79	4.57	1.26	
DCR 0969		15.06	11.85		0.87	0.87	3.70	1.34	15.88	12.72		0.79	0.79	4.57	1.26	
DCR 09611		15.14	11.97		0.98	0.98	3.82	1.65	16.00	12.80		0.98	0.98	4.69	1.54	
DCR 09613		15.33	12.17		1.14	1.14	4.06	1.89	16.04	12.87		1.14	1.14	4.76	1.81	
DCR 09617		15.57	12.40		1.30	1.30	4.37	2.36	16.12	12.95		1.34	1.34	4.92	2.28	
DCR 09621		15.49	12.32		1.50	1.50	4.57	2.87	16.00	12.83		1.34	1.34	5.08	2.80	
DCR 1445	3	20.73	17.56	12.20	0.47	0.47	3.78	0.83	21.40	18.23	12.20	0.47	0.47	4.45	0.75	17
DCR 1447		20.49	17.32		0.67	0.67	3.54	1.06	21.40	18.19		0.67	0.67	4.45	0.98	
DCR 1449		20.65	17.44		0.87	0.87	3.70	1.34	21.47	18.31		0.79	0.79	4.57	1.26	
DCR 1449		20.65	17.44		0.87	0.87	3.70	1.34	21.47	18.31		0.79	0.79	4.57	1.26	
DCR 14411		20.73	17.56		0.98	0.98	3.82	1.65	21.59	18.39		0.98	0.98	4.69	1.54	
DCR 14413		20.92	17.76		1.14	1.14	4.06	1.89	21.63	18.46		1.14	1.14	4.76	1.81	
DCR 14417		21.16	17.99		1.30	1.30	4.37	2.36	21.71	18.54		1.34	1.34	4.92	2.28	
DCR 14421		21.08	17.91		1.50	1.50	4.57	2.87	21.59	18.43		1.34	1.34	5.08	2.80	
DCR 1925	4	26.24	23.07	12.20	0.47	0.47	3.78	0.83	26.91	23.74	12.20	0.47	0.47	4.45	0.75	20
DCR 1927		26.00	22.83		0.67	0.67	3.54	1.06	26.91	23.70		0.67	0.67	4.45	0.98	
DCR 1929		26.16	22.95		0.87	0.87	3.70	1.34	26.99	23.82		0.79	0.79	4.57	1.26	
DCR 1929		26.16	22.95		0.87	0.87	3.70	1.34	26.99	23.82		0.79	0.79	4.57	1.26	
DCR 19211		26.24	23.07		0.98	0.98	3.82	1.65	27.10	23.90		0.98	0.98	4.69	1.54	
DCR 19213		26.44	23.27		1.14	1.14	4.06	1.89	27.14	23.98		1.14	1.14	4.76	1.81	
DCR 19217		26.67	23.50		1.30	1.30	4.37	2.36	27.22	24.06		1.34	1.34	4.92	2.28	
DCR 19221		26.59	23.43		1.50	1.50	4.57	2.87	27.10	23.94		1.34	1.34	5.08	2.80	

\* Weights stated without core. All values approximate.

Dimensions and weights for high-pressure version



Type	Number of cores	High Pressure DCR with steel connectors							Weight lb
		L in.	L <sub>1</sub> in.	L <sub>2</sub> in.	L <sub>3</sub> in.	L <sub>4</sub> in.	H <sub>1</sub> in.	H <sub>5</sub> in.	
DCR 0487(s)	1	9.66	6.26	6.69	0.67	0.67	3.54	0.98	15
DCR 0489(s)		9.78	6.38		0.87	0.87	3.70	1.26	
DCR 04811		9.90	6.50		0.98	0.98	3.82	1.54	
DCR 04813		10.10	6.69		1.14	1.14	4.06	1.81	
DCR 04817		10.33	6.93		1.30	1.30	4.37	2.28	
DCR 0967	2	15.14	11.73	12.20	0.67	0.67	3.54	0.98	15
DCR 0969		15.25	11.85		0.87	0.87	3.70	1.26	
DCR 09611		15.37	11.97		0.98	0.98	3.82	1.54	
DCR 09613		15.57	12.17		1.14	1.14	4.06	1.81	
DCR 09617		15.81	12.40		1.30	1.30	4.37	2.28	

\*Weights stated without core. All values approximate.