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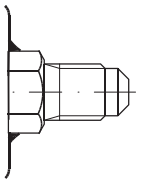
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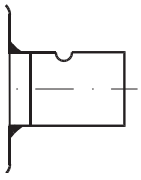


Eliminator ® Liquid line filter driers,

Type DCL and DML



Flare connection



Solder connection (copper)

Technical brochure

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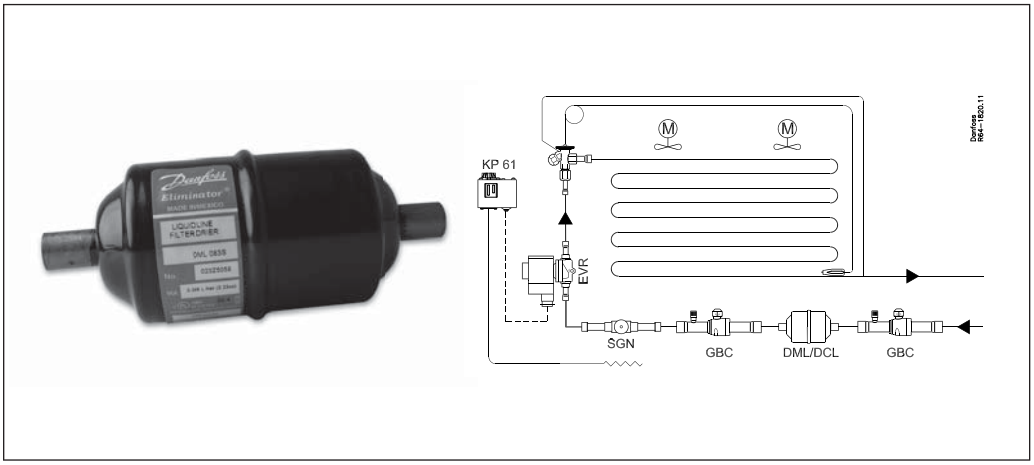
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Introduction



Eliminator® liquid line filter driers protect refrigeration and air-conditioning systems from moisture, acids, and solid particles. With these contaminants eliminated, systems are safer from harmful chemical reactions and from abrasive impurities.

There are two types of ***Eliminator***® cores. Type DML driers have a core composition of 100% Molecular Sieve, while type DCL contain 80% Molecular Sieve with 20% activated alumina.

All ***Eliminator***® driers have a solid core with binding material held to an absolute minimum. Core selection is primarily based on the refrigerant oil used in the system.

Eliminator® type DML, with a solid core of 100% Molecular Sieve, is optimized for use with HFC refrigerants and polyolester (POE) or polyalkyl glycol (PAG) oils. Type DML driers are designed for applications requiring high water adsorption, and can be used with any manufacturer's compressor. Because type DML driers contain no activated alumina, oil additives will not be depleted.

Eliminator® type DCL, with a solid core of 80% Molecular Sieve and 20% activated alumina, is the drier of choice for systems with HCFC and CFC refrigerants and mineral or alkyl benzene oils. Type DCL driers are particularly suited for systems that operate at high condensing temperatures and require high drying capacity.

Features

The Core

Type DML

- 100% 3Å Molecular Sieve core.
- High drying capacity minimizing the risk of acid formation (hydrolysis).
- Optimized for HFC refrigerants (R134a, R404A, R410A, etc.) with POE or PAG oils. Compatible with R22.
- Will not deplete oil additives.

Type DCL

- 80% 3Å Molecular Sieve with 20% activated alumina.
- Perfect core blend for systems that operate at high condensing temperatures and require high drying capacity.
- Optimized for CFC and HCFC refrigerants (R22, R502, etc.) with mineral or alkyl benzene oils. Compatible with HFC's and refrigerant blends.

The Shell

- UL approved for MWP up to 46 bar (667 psig)
- Available with solder (copper) and flare connections.
- Compact 3 cubic inches drier ideal for refrigeration and air conditioning units.
- Corrosion resistant powder-painted finish. Can be used in all environments including marine applications.
- Allows installation with any orientation provided the arrow is in the flow direction.
- Available in sizes from 3 to 75 cubic inches.

The Filter

- 25 µm (0.001 in.) filter provides high retention with minimal pressure drop.
- Thermally stable up to 120°C (250°F)

Approvals

c UL us UL file no. SA 6398
PED 97/23/EC - a3p3

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Technical data

Surface and volume

Filter	Solid core surface [in²]	Solid core volume [in³]	Filter drier volume (shell volume) [fl. oz.]	Filter drier volume (net. volume) [fl. oz.]
DML/DCL 03	13	3	2.7	1.28
DML/DCL 05	15	4	4.0	1.72
DML/DCL 08	20	6	5.7	2.18
DML/DCL 16	34	14	12.0	4.11
DML/DCL 30	59	30	24.3	7.58
DML/DCL 41	79	42	32.7	9.66
DML/DCL 60	117	60	45.3	11.89
DML/DCL 75	158	83	61.3	15.23

Acid capacity

Filter	Acid capacity [oz.]
DCL 03	0.02
DCL 05	0.03
DCL 08	0.05
DCL 16	0.11
DCL 30	0.23
DCL 41	0.31
DCL 60	0.45
DCL 75	0.63

Temperature range

– 40 to 70°C (–40 to 160°F)

Technical data and capacities

DML

R134a, R507, R404A, R22, R407C, R410A

Drying and liquid capacity - Type DML

Type	Drying capacity [lbs refrigerant] 1)						Liquid capacity [TR] 2)			Max. Working Pressure PS [psig]
	R134a		R404A R507		R22, R407C R410A		R134a	R404A R507	R22 R407C R410A	
	75°F	125°F	75°F	125°F	75°F	125°F				
DML032/032s	12.1	11.0	16.5	9.9	9.9	8.8	2.0	1.4	2.0	667
DML 032.5s	12.1	11.0	16.5	9.9	9.9	8.8	2.6	2.0	2.6	667
DML033/033s	12.1	11.0	16.5	9.9	9.9	8.8	4.9	3.7	5.4	667
DML034s	12.1	11.0	16.5	9.9	9.9	8.8	6.9	4.9	7.4	667
DML052/052s	18.7	17.6	28.7	16.5	17.6	15.4	2.0	1.4	2.3	667
DML 052.5s	18.7	17.6	28.7	16.5	17.6	15.4	2.6	2.0	2.6	667
DML053/053s	18.7	17.6	28.7	16.5	17.6	15.4	5.1	4.0	5.4	667
DML054s	18.7	17.6	28.7	16.5	17.6	15.4	7.1	5.1	7.7	667
DML055s	18.7	17.6	28.7	16.5	17.6	15.4	9.7	7.1	10.6	667
DML082/082s	27.6	26.5	44.1	25.3	27.6	24.3	2.0	1.4	2.3	667
DML 082.5s	27.6	26.5	44.1	25.3	27.6	24.3	2.6	2.3	3.1	667
DML083/083s	27.6	26.5	44.1	25.3	27.6	24.3	5.4	4.0	6.0	667
DML084/084s	27.6	26.5	44.1	25.3	27.6	24.3	7.4	5.7	8.3	667
DML085/085s	27.6	26.5	44.1	25.3	27.6	24.3	12.0	8.8	13.1	667
DML162/162s	59.5	56.2	95.9	52.9	59.5	50.7	2.0	1.4	2.3	667
DML 162.5s	59.5	56.2	95.9	52.9	59.5	50.7	2.6	2.3	3.1	667
DML163/163s	59.5	56.2	95.9	52.9	59.5	50.7	6.3	4.6	6.9	667
DML164/164s	59.5	56.2	95.9	52.9	59.5	50.7	8.6	6.3	9.4	667
DML165/165s	59.5	56.2	95.9	52.9	59.5	50.7	12.3	8.6	13.4	667
DML166/166s	59.5	56.2	95.9	52.9	59.5	50.7	12.6	8.8	13.7	507
DML167s	59.5	56.2	95.9	52.9	59.5	50.7	12.6	8.8	13.7	507
DML303/303s	125.7	119.0	203.9	112.4	125.7	106.9	6.0	4.3	6.6	667
DML304/304s	125.7	119.0	203.9	112.4	125.7	106.9	8.8	6.3	9.7	667
DML305/305s	125.7	119.0	203.9	112.4	125.7	106.9	12.6	9.4	14.0	667
DML306/306s	125.7	119.0	203.9	112.4	125.7	106.9	17.7	12.9	19.4	507
DML307s	125.7	119.0	203.9	112.4	125.7	106.9	17.7	12.9	19.4	507
DML309s	125.7	119.0	203.9	112.4	125.7	106.9	17.7	12.9	19.4	435
DML413	176.4	165.3	286.6	154.3	176.4	163.1	7.1	5.1	7.7	667
DML414/414s	176.4	165.3	286.6	154.3	176.4	163.1	9.1	6.6	10.0	667
DML415/415s	176.4	165.3	286.6	154.3	176.4	163.1	15.1	10.6	16.6	667
DML417s	176.4	165.3	286.6	154.3	176.4	163.1	26.0	18.6	28.6	507
DML419s	176.4	165.3	286.6	154.3	176.4	163.1	26.0	18.6	28.6	435
DML604s	249.1	235.9	407.9	222.7	251.3	213.8	7.7	5.7	8.8	667
DML607s	249.1	235.9	407.9	222.7	251.3	213.8	21.4	15.4	23.4	507
DML609s	249.1	235.9	407.9	222.7	251.3	213.8	24.9	18.3	27.1	435
DML757s	352.7	330.7	573.2	308.6	352.7	326.3	23.4	17.1	25.7	507
DML759s	352.7	330.7	573.2	308.6	352.7	326.3	26.9	19.4	29.1	435

1) Drying capacity is based on following moisture content test standards before and after drying:
R134a:
From 1050 ppm W to 75 ppm W.
If drying to 50 ppm W is required, reduce stated capacities by 15%.
R404A, R507:
From 1020 ppm W to 30 ppm W.
R407C:
From 1020 ppm W to 30 ppm W.
R410A:
From 1050 ppm W to 60 ppm W.
R22:
From 1050 ppm W to 60 ppm W in accordance with ARI 710-86.

2) Given in accordance with ARI 710-86 for
t_e = –15°C (5°F),
t_c = 30°C (85°F) and
Δp = 0.07 bar (1 psig).

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Technical data and capacities

DCL

R134a, R507, R404A, R407C, R410A

Drying and liquid capacity - Type DCL

Type	Drying capacity [lbs refrigerant] [1]						Liquid capacity [TR] [2]			Max. Working Pressure PS [psi]
	R134a		R404A R507		R407C R410A		R134a	R404A R507	R407C R410A	
	75°F	125°F	75°F	125°F	75°F	125°F				
DCL032/032s	9.9	8.8	15.4	7.7	8.8	7.7	2.0	1.4	2.0	667
DCL 032.5s	9.9	8.8	15.4	7.7	8.8	7.7	2.6	2.0	2.6	667
DCL033/033s	9.9	8.8	15.4	7.7	8.8	7.7	4.9	3.7	5.4	667
DCL052/052s	13.7	13.2	22.0	12.1	13.2	12.1	2.0	1.4	2.3	667
DCL 052.5s	13.7	13.2	22.0	12.1	13.2	12.1	2.6	2.0	2.6	667
DCL053/053s	13.7	13.2	22.0	12.1	13.2	12.1	5.1	4.0	5.4	667
DCL082/082s	22.0	19.8	35.3	17.6	20.9	19.8	2.0	1.4	2.3	667
DCL 082.5s	22.0	19.8	35.3	17.6	20.9	19.8	2.6	2.3	3.1	667
DCL083/083s	22.0	19.8	35.3	17.6	20.9	19.8	5.4	4.0	6.0	667
DCL084/084s	22.0	19.8	35.3	17.6	20.9	19.8	7.4	5.7	8.3	667
DCL162/162s	52.9	48.5	81.6	44.1	48.5	44.1	2.0	1.4	2.3	667
DCL 162.5s	52.9	48.5	81.6	44.1	48.5	44.1	2.6	2.3	3.1	667
DCL163/163s	52.9	48.5	81.6	44.1	48.5	44.1	5.4	4.6	6.9	667
DCL164/164s	52.9	48.5	81.6	44.1	48.5	44.1	8.6	6.3	9.4	667
DCL165/165s	52.9	48.5	81.6	44.1	48.5	44.1	12.3	8.6	13.4	667
DCL166/166s	52.9	48.5	81.6	44.1	48.5	44.1	12.3	8.6	13.4	507
DCL167s	52.9	48.5	81.6	44.1	48.5	44.1	12.6	8.6	13.4	507
DCL303/303s	103.6	97.0	169.8	90.4	97.0	90.4	6.0	4.3	6.6	667
DCL304/304s	103.6	97.0	169.8	90.4	97.0	90.4	8.8	6.3	9.7	667
DCL305/305s	103.6	97.0	169.8	90.4	97.0	90.4	12.6	9.4	14.0	667
DCL306/306s	103.6	97.0	169.8	90.4	97.0	90.4	17.7	12.9	19.4	507
DCL307s	103.6	97.0	169.8	90.4	97.0	90.4	17.7	12.9	19.4	507
DCL309s	103.6	97.0	169.8	90.4	97.0	90.4	17.7	12.9	19.4	435
DCL413	143.3	134.5	233.7	123.5	134.5	123.5	7.1	5.1	7.7	667
DCL414/414s	143.3	134.5	233.7	123.5	134.5	123.5	9.1	6.6	10.0	667
DCL415/415s	143.3	134.5	233.7	123.5	134.5	123.5	15.1	10.6	16.6	667
DCL417s	143.3	134.5	233.7	123.5	134.5	123.5	25.9	18.6	28.6	507
DCL419s	143.3	134.5	233.7	123.5	134.5	123.5	25.9	18.6	28.6	435
DCL604s	207.2	167.6	330.7	180.8	196.2	180.8	7.7	5.7	8.8	667
DCL607s	207.2	167.6	330.7	180.8	196.2	180.8	21.4	15.4	23.4	507
DCL609s	207.2	167.6	330.7	180.8	196.2	180.8	24.9	18.3	27.1	435
DCL757s	286.6	282.2	467.4	251.3	266.8	246.9	23.4	17.1	25.7	507
DCL759s	286.6	282.2	467.4	251.3	266.8	246.9	26.9	19.4	29.1	435

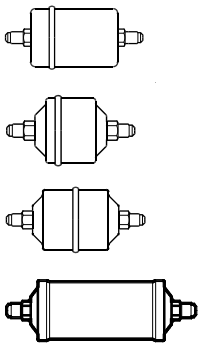
[1]) Drying capacity is based on following moisture content test standards before and after drying:
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R404A, R507:
From 1020 ppm W to 30 ppm W.
R407C:
From 1020 ppm W to 30 ppm W.
R410A:
From 1050 ppm W to 60 ppm W.
R22:
From 1050 ppm W to 60 ppm W in accordance with ARI 710-86.
R12:
From 565 ppm W to 15 ppm W in accordance with ARI 710-86.
R502:
From 1020 ppm W to 30 ppm W in accordance with ARI 710-86.

[2]) Given in accordance with ARI 710-86 for
t_e = −15°C (5°F),
t_c = 30°C (85°F) and
Δp = 0.07 bar (1 psig).

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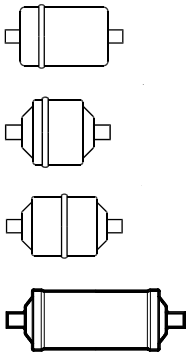


Flare

DCL

Type	Conn.		Multipack	Industrialpack/ for OEM only	
	in.	mm	**Code no.**	**Code no.**	Qty.
DCL 032	1/4	6	**023Z5000***		
DCL 032	1/4	6	**023Z5075**	**023Z8075**	28
DCL 033	3/8	10	**023Z5001***		
DCL 033	3/8	10	**023Z5089**	**023Z8089**	
DCL 052	1/4	6	**023Z5002**	**023Z8002**	16
DCL 053	3/8	10	**023Z5003**	**023Z8003**	
DCL 082	1/4	6	**023Z5004**	**023Z8004**	
DCL 083	3/8	10	**023Z5005**	**023Z8005**	16
DCL 084	1/2	12	**023Z5006**	**023Z8006**	
DCL 162	1/4	6	**023Z5007**	**023Z8007**	
DCL 163	3/8	10	**023Z5008**	**023Z8008**	
DCL 164	1/2	12	**023Z5009**	**023Z8009**	12
DCL 165	5/8	16	**023Z5010**	**023Z8010**	
DCL 166	3/4	19	**023Z5011**		
DCL 303	3/8	10	**023Z0012**		
DCL 304	1/2	12	**023Z0013**	**023Z3013**	8
DCL 305	5/8	16	**023Z0014**	**023Z3014**	
DCL 306	3/4	19	**023Z0156**	**023Z3156**	
DCL 413	3/8	10	**023Z0101**		
DCL 414	1/2	12	**023Z0102**		
DCL 415	5/8	16	**023Z0103**		

* Wire mesh in filter drier outlet



Solder (copper)

DCL

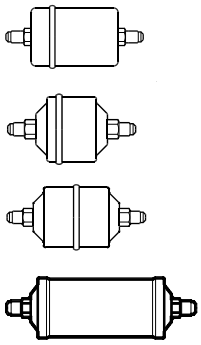
Type	Conn.	Multipack	Industrialpack for OEM only		Conn.	Multipack	Industrialpack for OEM only	
	in.	**Code no.**	**Code no.**	Qty.	mm	**Code no.**	**Code no.**	Qty.
DCL 032s	1/4	**023Z5013***	**023Z8013***		6	**023Z5012***	**023Z8012***	
DCL 032.5s	5/16	**023Z5014**	**023Z8014***	28	8	**023Z5014**	**023Z8014***	28
DCL 033s	3/8	**023Z5015**			10	**023Z5016**		
DCL 052s	1/4	**023Z5018**	**023Z8018**		6	**023Z5017**	**023Z8017**	
DCL 052.5s	5/16	**023Z5114**		16	8	**023Z5114**		16
DCL 053s	3/8	**023Z5019**	**023Z8019**		10	**023Z5020**	**023Z8020**	
DCL 082s	1/4	**023Z5022**	**023Z8022**		6	**023Z5021**		
DCL 082.5s	5/16	**023Z5116**		16	8	**023Z5116**		16
DCL 083s	3/8	**023Z5023**	**023Z8023**		10	**023Z5024**		
DCL 084s	1/2	**023Z5026**	**023Z8026**		12	**023Z5025**	**023Z8025**	
DCL 162s	1/4	**023Z5028**			6	**023Z5027**		
DCL 162.5s	5/16	**023Z5118**			8	**023Z5118**		
DCL 163s	3/8	**023Z5029**			10	**023Z5030**	**023Z8030**	
DCL 164s	1/2	**023Z5032**	**023Z8032**	12	12	**023Z5031**		12
DCL 165s	5/8	**023Z5033**	**023Z8033**		16	**023Z5033**	**023Z8033**	
DCL 166s	3/4	**023Z5070**			19	**023Z5070**		
DCL 167s	7/8	**023Z5034**			22	**023Z5034**		
DCL 303s	3/8	**023Z0030**	**023Z3030**		10	**023Z0196**		
DCL 304s	1/2	**023Z0031**			12	**023Z0198**	**023Z3198**	
DCL 305s	5/8	**023Z0032**	**023Z3032**	8	16	**023Z0032**	**023Z3032**	8
DCL 306s	3/4	**023Z0033**			18	**023Z0216**		
DCL 307s	7/8	**023Z0034**	**023Z3034**		22	**023Z0034**	**023Z3034**	
DCL 309s	1 1/8	**023Z0035**			28	**023Z0200**		
DCL 414s	1/2	**023Z0104**			12	**023Z0227**		
DCL 415s	5/8	**023Z0105**			16	**023Z0105**		
DCL 417s	7/8	**023Z0106**			22	**023Z0106**		
DCL 419s	1 1/8	**023Z0107**			28	**023Z0202**		
DCL 604s	1/2	**023Z0241**			12	**023Z0221**		
DCL 607s	7/8	**023Z0036**			22	**023Z0036**		
DCL 609s	1 1/8	**023Z0037**			28	**023Z0204**		
DCL 757s	7/8	**023Z0115**			22	**023Z0115**		
DCL 759s	1 1/8	**023Z0116**			28	**023Z0206**		

* Wire mesh in filter drier outlet

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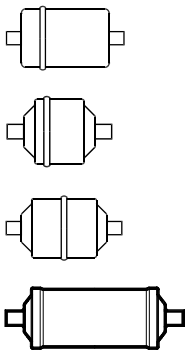


Flare

DML

Type	Conn.		Multipack	Industrialpack for OEM only	
	in.	mm	Code no.	Code no.	Qty.
DML 032	1/4	6	**023Z5035***	**023Z8035***	
DML 033	3/8	10	**023Z5036***	**023Z8036***	28
DML 033	3/8	10	**023Z5090**	**023Z8090**	
DML 052	1/4	6	**023Z5037**	**023Z8037**	16
DML 053	3/8	10	**023Z5038**	**023Z8038**	
DML 082	1/4	6	**023Z5039**	**023Z8039**	
DML 083	3/8	10	**023Z5040**	**023Z8040**	16
DML 084	1/2	12	**023Z5041**	**023Z8041**	
DML 085	5/8	16	**023Z5073**	**023Z8073**	
DML 162	1/4	6	**023Z5042**	**023Z8042**	
DML 163	3/8	10	**023Z5043**	**023Z8043**	
DML 164	1/2	12	**023Z5044**	**023Z8044**	12
DML 165	5/8	16	**023Z5045**	**023Z8045**	
DML 166	3/4	19	**023Z5046**	**023Z8046**	
DML 303	3/8	10	**023Z0049**	**023Z3049**	
DML 304	1/2	12	**023Z0050**	**023Z3050**	8
DML 305	5/8	16	**023Z0051**	**023Z3051**	
DML 306	3/4	19	**023Z0193**	**023Z3193**	
DML 413	3/8	10	**023Z0108**	**023Z3108**	
DML 414	1/2	12	**023Z0109**	**023Z3109**	6
DML 415	5/8	16	**023Z0110**	**023Z3110**	

* Wire mesh in filter drier outlet



Solder (copper)

DML

Type	Conn.	Multipack	Industrialpack for OEM only		Conn.	Multipack	Industrialpack for OEM only	
	in.	Code no.	Code no.	Qty.	mm	Code no.	Code no.	Qty.
DML 032s	1/4	**023Z5048***	**023Z8048***		6	**023Z5047***	**023Z8047***	
DML 032.5s	5/16	**023Z5049**	**023Z8049**	28	8	**023Z5049**	**023Z8049**	28
DML 033s	3/8	**023Z5050**	**023Z8050***		10	**023Z5051**	**023Z8051***	
DML 034s	1/2	**023Z5121**			12	**023Z5123**		
DML 052s	1/4	**023Z5053**			6	**023Z5052**	**023Z8052**	
DML 052.5s	5/16	**023Z5115**			8	**023Z5115**		
DML 053s	3/8	**023Z5054**	**023Z8054**	16	10	**023Z5055**	**023Z8055**	16
DML 054s	1/2	**023Z5101**			12	**023Z5099**		
DML 055s	5/8	**023Z5100**			16	**023Z5100**		
DML 082s	1/4	**023Z5057**			6	**023Z5056**		
DML 082.5s	5/16	**023Z5117**			8	**023Z5117**		
DML 083s	3/8	**023Z5058**		16	10	**023Z5059**		
DML 084s	1/2	**023Z5061**	**023Z8061**		12	**023Z5060**		
DML 085s	5/8	**023Z5072**			16	**023Z5072**		
DML 162s	1/4	**023Z5063**	**023Z8133**		6	**023Z5062**		
DML 162.5s	5/16	**023Z5119**			8	**023Z5119**		
DML 163s	3/8	**023Z5064**	**023Z8134**		10	**023Z5065**		
DML 164s	1/2	**023Z5067**	**023Z8067**	12	12	**023Z5066**		12
DML 165s	5/8	**023Z5068**	**023Z8068**		16	**023Z5068**	**023Z8068**	
DML 166s	3/4	**023Z5071**	**023Z8071**		19	**023Z5071**	**023Z8071**	
DML 167s	7/8	**023Z5069**			22	**023Z5069**		
DML 303s	3/8	**023Z0067**			10	**023Z0197**		
DML 304s	1/2	**023Z0068**			12	**023Z0199**		
DML 305s	5/8	**023Z0069**	**023Z3069**	8	16	**023Z0069**	**023Z3069**	8
DML 306s	3/4	**023Z0070**			19	**023Z0070**		
DML 307s	7/8	**023Z0071**	**023Z3071**		22	**023Z0071**	**023Z3071**	
DML 309s	1 1/8	**023Z0072**			28	**023Z0201**		
DML 414s	1/2	**023Z0111**			12	**023Z0228**		
DML 415s	5/8	**023Z0112**		6	16	**023Z0112**		6
DML 417s	7/8	**023Z0113**	**023Z3113**		22	**023Z0113**	**023Z3113**	
DML 419s	1 1/8	**023Z0114**	**023Z3114**		28	**023Z0203**		
DML 604s	1/2	**023Z0224**			12	**023Z0229**		
DML 607s	7/8	**023Z0073**			22	**023Z0073**		
DML 609s	1 1/8	**023Z0074**			28	**023Z0205**		
DML 757s	7/8	**023Z0117**	**023Z3117**	4	22	**023Z0117**	**023Z3117**	4
DML 759s	1 1/8	**023Z0118**	**023Z3118**		28	**023Z0207**		

* Wire mesh in filter drier outlet

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Identification

Example for type codes

D C L 05 3 s

Type codes

Filter drier	**D**	
Solid core	**C** **M**	80 / 20% composite core 100% Molecular Sieve core
Application	**L**	Liquid line
Size (volume)	**03** **05** **08** **16** **30** **41** **60** **75**	3 in³ 5 in³ 8 in³ 16 in³ 30 in³ 41 in³ 60 in³ 75 in³
Connection (filter connection in 1/8 of an inch increments)	**2** **2.5** **3** **4** **5** **6** **7** **9**	1/4 in. / 6mm 5/16 in. / 8 mm 3/8 in. / 10 mm 1/2 in. / 12 mm 5/8 in. / 16 mm 3/4 in. / 18 (19) mm 7/8 in. / 22 mm 1 1/8 in. / 28 mm
Connection type	**(blank)** **s**	Flare connection Solder connection

Selection

Type selection is made considering the application

		DCL	DML
Refrigerant	HFC	Can be used	Recommended
	HCFC	Recommended	Can be used
	CFC	Recommended	Not recommended [1]
Oil	Mineral or AB	Recommended	Can be used
	POE or PAG, pure	Can be used	Recommended
	POE or PAG, with additives	Not recommended [2]	Recommended

[1] For CFC systems, DCL filter driers are recommended. In these systems, circumstances may require the use of a filter drier with acid adsorbing properties.

[2] Use of filter driers containing activated alumina are not recommended in systems with oils containing additives.

Selection example

Select the appropriate type (DML or DCL) based on refrigerant and oil type. Then select the drier size based on the adsorption and liquid capacity required.

a. Amount of charge: 55 lbs R134a at t_L = 75°F To dry 55 lbs R134a at 75°F from 1050 to 60 ppm moisture, a DML 16 is necessary.

b. Cooling capacity: Q_e = 5.7 TR
To obtain a mass flow corresponding to 5.7 TR cooling capacity with a DML 16 filter drier, a 3/8 inch connection must be chosen.
Larger connections can be chosen in accordance with the liquid line dimension.

c. Result
DML 163 or DML 163s can be used.

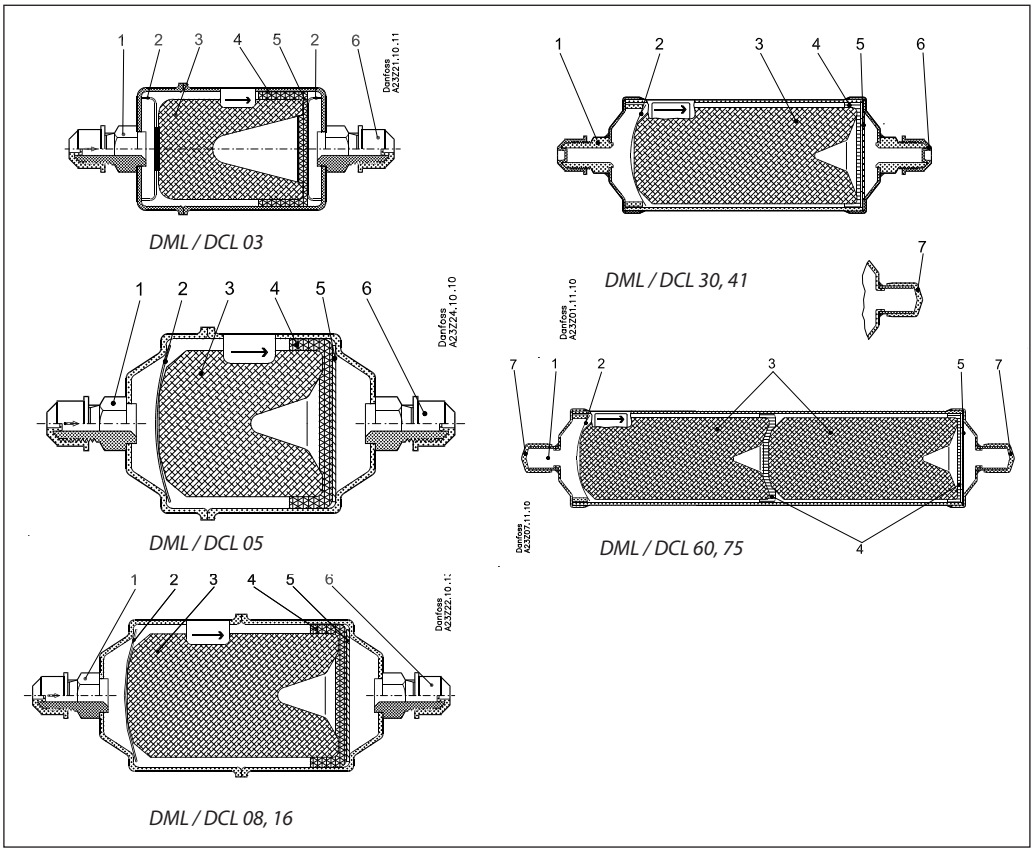
If the initial moisture content is very small or a planned change of the filter drier is considered, a smaller filter drier size can be chosen.

Type	Drying capacity [lbs refrigerant] [1]						Liquid capacity [tons] [2]			Max. Working Pressure PS [psig]
	R134a		R404A R507		R22, R407C R410A		R134a	R404A R507	R22 R407C R410A	
	75°F	125°F	75°F	125°F	75°F	125°F				
DML 032/032s	12.1	11.0	16.5	9.9	9.9	8.8	2.0	1.4	2.0	667
DML 032.5s	12.1	11.0	16.5	9.9	9.9	8.8	2.6	2.0	2.6	667
DML [illegible]				9.9	9.9	8.8	4.9			
DML 162/162s	59.5	56.2	95.9					1.4	2.3	667
DML 162.5s	59.5	56.2	95.9	52.9	59.5	50.7	2.6	2.3	3.1	667
DML 163/163s	59.5	56.2	95.9	52.9	59.5	50.7	6.3	4.6	6.9	667
DML 164/164s	59.5	56.2	95.9	52.9	59.5	50.7	8.6	6.3	9.4	667
DML 165/165s	59.5	56.2	95.9	52.9	59.5	50.7	12.3	8.6	13.4	667
DML 166/166				52.9	59.5	50.7	12.6			507
DML [illegible]					59.5	50.7	12.6			

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Design and function



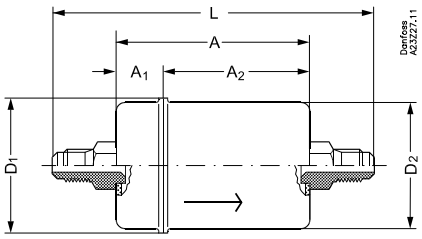
1. Inlet
2. Spring
3. Solid core
4. Polyester mat
5. Perforated plate
6. Seal cap, flare connection
7. Seal cap, solder connection

The relatively large diameter of the filter drier means that the liquid flow velocity is suitably low and the pressure drop minimal.

Powder formation is eliminated because the solid core grains are bonded and cannot move against each other.

Dimensions and weights

Flare connections

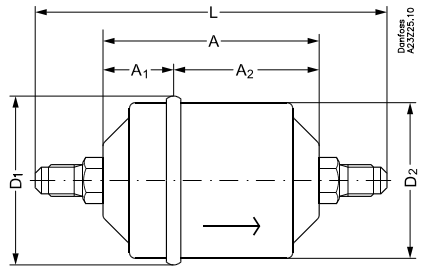


Type		A	A_1	A_2	L	D_1	D_2	Weight
DCL/DML 032	in.	2.60	0.63	1.97	4.33	1.81	1.69	0.44 lbs
DCL/DML 033	in.	2.60	0.63	1.97	4.84	1.81	1.69	0.51 lbs

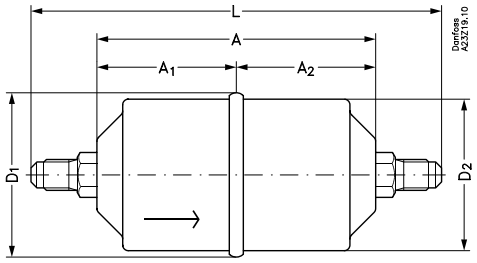
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Dimensions and weights
(cont.)

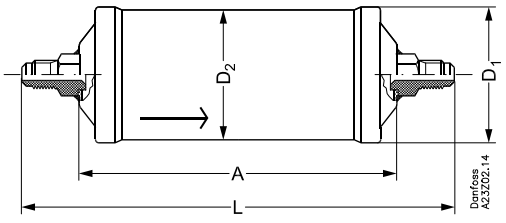
Flare connections



Type		A	A_1	A_2	L	D_1	D_2	Weight
DCL/DML 052	in.	2.95	0.96	1.99	4.69	2.28	2.13	0.86 lbs
DCL/DML 053	in.	2.95	0.96	1.99	5.20	2.28	2.13	0.92 lbs



Type		A	A_1	A_2	L	D_1	D_2	Weight
DCL/DML 082	in.	3.98	1.99	1.99	5.71	2.28	2.13	0.88 lbs
DCL/DML 083	in.	3.98	1.99	1.99	6.22	2.28	2.13	0.97 lbs
DCL/DML 084	in.	3.98	1.99	1.99	6.54	2.28	2.13	1.06 lbs
DML 085	in.	3.98	1.99	1.99	6.89	2.28	2.13	1.14 lbs
DCL/DML 162	in.	4.33	2.17	2.17	6.06	3.15	2.99	1.74 lbs
DCL/DML 163	in.	4.33	2.17	2.17	6.57	3.15	2.99	1.80 lbs
DCL/DML 164	in.	4.33	2.17	2.17	6.89	3.15	2.99	1.91 lbs
DCL/DML 165	in.	4.33	2.17	2.17	7.24	3.15	2.99	2.00 lbs
DCL/DML 166	in.	4.33	2.17	2.17	7.17	3.15	2.99	2.18 lbs



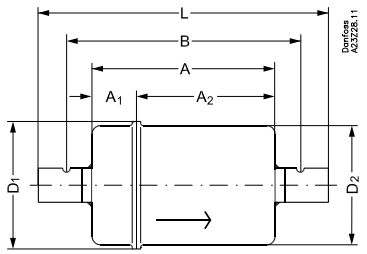
Type		A	A_1	A_2	L	D_1	D_2	Weight
DCL/DML 303	in.	7.32	-	-	9.57	3.15	2.99	2.93 lbs
DCL/DML 304	in.	7.32	-	-	9.88	3.15	2.99	3.04 lbs
DCL/DML 305	in.	7.32	-	-	10.24	3.15	2.99	3.12 lbs
DCL/DML 306	in.	7.32	-	-	10.16	3.15	2.99	3.28 lbs
DCL/DML 413	in.	7.36	-	-	9.61	3.66	3.50	4.09 lbs
DCL/DML 414	in.	7.36	-	-	9.92	3.66	3.50	4.20 lbs
DCL/DML 415	in.	7.36	-	-	10.28	3.66	3.50	4.29 lbs

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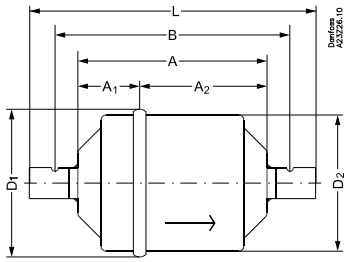
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Dimensions and weights *(cont.)*

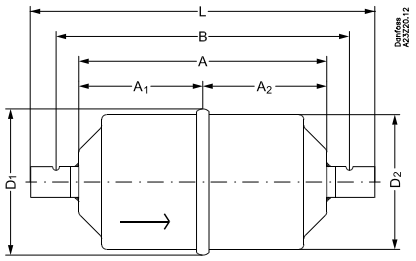
Solder connections



Type		A	A_1	A_2	B	L	D_1	D_2	Weight
DCL/DML 032s	in.	2.60	0.63	1.97	3.23	3.86	1.81	1.69	0.39 lbs
DCL/DML 032.5s	in.	2.60	0.63	1.97	3.31	4.02	1.81	1.69	0.42 lbs
DCL/DML 033s	in.	2.60	0.63	1.97	3.35	4.09	1.81	1.69	0.42 lbs
DCL/DML 034s	in.	2.60	0.63	1.97	3.43	4.25	1.81	1.69	0.44 lbs



Type		A	A_1	A_2	B	L	D_1	D_2	Weight
DCL/DML 052s	in.	2.95	0.96	1.99	3.58	4.21	2.28	2.13	0.81 lbs
DCL/DML 052.5s	in.	2.95	0.96	1.99	3.66	4.37	2.28	2.13	0.84 lbs
DCL/DML 053s	in.	2.95	0.96	1.99	3.70	4.45	2.28	2.13	0.84 lbs
DML 054s	in.	2.95	0.96	1.99	3.78	4.61	2.28	2.13	0.86 lbs
DML 055s	in.	2.95	0.96	1.99	3.90	4.84	2.28	2.13	0.88 lbs



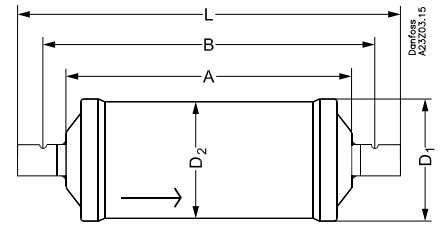
Type		A	A_1	A_2	B	L	D_1	D_2	Weight
DCL/DML 082s	in.	3.98	1.99	1.99	4.61	5.24	2.28	2.13	0.84 lbs
DCL/DML 082.5s	in.	3.98	1.99	1.99	4.69	5.39	2.28	2.13	0.86 lbs
DCL/DML 083s	in.	3.98	1.99	1.99	4.72	5.47	2.28	2.13	0.86 lbs
DCL/DML 084s	in.	3.98	1.99	1.99	4.80	5.63	2.28	2.13	0.88 lbs
DML 085s	in.	3.98	1.99	1.99	4.92	5.87	2.28	2.13	0.90 lbs
DCL/DML 162s	in.	4.33	2.17	2.17	4.96	5.59	3.15	2.99	1.69 lbs
DCL/DML 162.5s	in.	4.33	2.17	2.17	5.04	5.75	3.15	2.99	1.72 lbs
DCL/DML 163s	in.	4.33	2.17	2.17	5.08	5.83	3.15	2.99	1.72 lbs
DCL/DML 164s	in.	4.33	2.17	2.17	5.16	5.98	3.15	2.99	1.74 lbs
DCL/DML 165s	in.	4.33	2.17	2.17	5.28	6.22	3.15	2.99	1.76 lbs
DCL/DML 166s	in.	4.33	2.17	2.17	5.51	6.69	3.15	2.99	1.80 lbs
DCL/DML 167s	in.	4.33	2.17	2.17	5.35	6.77	3.15	2.99	1.85 lbs

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Dimensions and weights *(cont.)*

Solder connections



Type		A	A_1	A_2	B	L	D_1	D_2	Weight
DCL/DML 303s	in.	7.32	-	-	8.07	8.82	3.15	2.99	2.84 lbs
DCL/DML 304s	in.	7.32	-	-	8.15	8.98	3.15	2.99	2.86 lbs
DCL/DML 305s	in.	7.32	-	-	8.27	9.21	3.15	2.99	2.88 lbs
DCL/DML 306s	in.	7.32	-	-	8.50	9.69	3.15	2.99	2.93 lbs
DCL/DML 307s	in.	7.32	-	-	8.35	9.76	3.15	2.99	2.97 lbs
DCL/DML 309s	in.	7.32	-	-	8.15	9.80	3.15	2.99	2.99 lbs
DCL/DML 414s	in.	7.36	-	-	8.19	9.02	3.66	3.50	4.47 lbs
DCL/DML 415s	in.	7.36	-	-	8.31	9.25	3.66	3.50	4.49 lbs
DCL/DML 417s	in.	7.36	-	-	8.39	9.80	3.66	3.50	4.58 lbs
DCL/DML 419s	in.	7.36	-	-	8.19	9.84	3.66	3.50	4.60 lbs
DCL/DML 604s	in.	13.27	-	-	14.09	14.92	3.15	2.99	5.15 lbs
DCL/DML 607s	in.	13.27	-	-	14.29	14.71	3.15	2.99	5.26 lbs
DCL/DML 609s	in.	13.27	-	-	14.09	14.75	3.15	2.99	5.28 lbs
DCL/DML 757s	in.	13.31	-	-	14.33	15.75	3.66	3.50	7.44 lbs
DCL/DML 759s	in.	13.31	-	-	14.13	15.79	3.66	3.50	7.46 lbs

Conversions

$$\text{Drops of water} = \frac{(\text{lbs of refrigerant} \times (\text{Initial PPM of water} - \text{Final PPM of water}))}{110}$$

See ARI standard 710-86 for recommended initial and final PPM values for different refrigerants.

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