



Eliminator[®] Filter Driers Type DML optimised for HFC



Protect your refrigeration system to the optimum – rely on high-quality filter driers

The protection lies in the unique ***Eliminator***[®] core. So, the DML drier isn't just another drier. The design is based on years of experience.

As a leading manufacturer of a full program of refrigeration components and systems, Danfoss is able to transfer its knowledge from one product to another.

DML filter driers are especially designed for optimal drying effect in HFC refrigerants, but are also compatible with R22. The dirt retention is particularly high, down to 25 µm particles and the moisture absorption is five times better than traditional activated alumina driers.



DML: Excellent protection of your refrigeration system

The DML liquid line filter driers protect refrigeration and air conditioning systems from moisture, acids and solid particles. The 100% solid molecular sieve core, assures a high drying capacity and avoids acid formation in the system.

Advantages

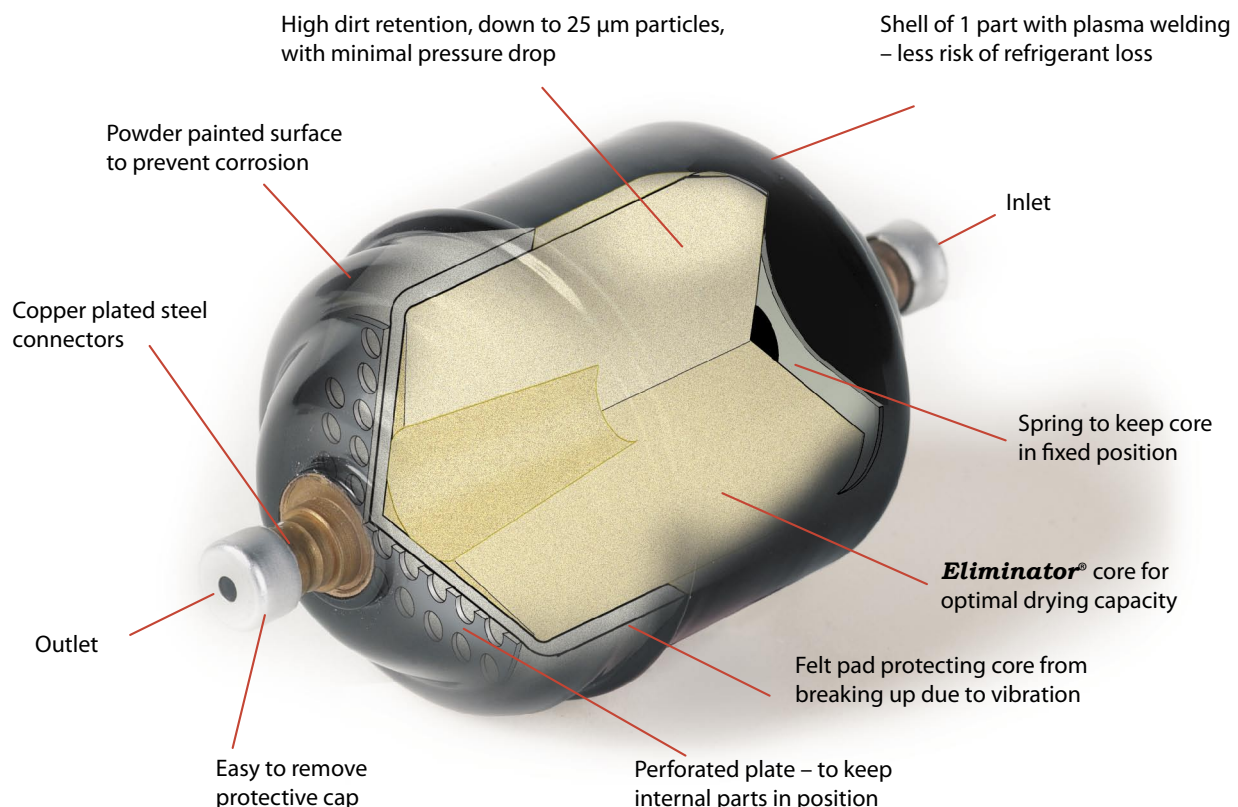
- High drying capacity avoiding the risk of acid formation in the refrigeration system.
- High dirt retention, down to 25 µm particles, with minimal pressure drop.
- Highly corrosion-resistant powder-painted finish. Can be used in all environments, including marine applications.
- Copper plated solder connections – no need of wet cloth during installation.
- 1 piece plasma welded shell (3 - 16 inches series). Less risk of refrigerant loss.
- Driers with flare connections have hard plastic screw type end caps for greater protection and easy removal. Aluminium caps on driers with solder connections.

Facts

- MWP (PS): up to 42 bar (610 psi).
- HCFC & HFC refrigerants.
- Available with flare- or solder connectors (copper-plated steel).
- Wide range with sizes from 3 to 75 cubic inches.
- UL and PED approvals – label indicating internal free volume.
- Can be installed in any position provided "the arrow" is in the direction of flow.

Features

- 100% 3Å molecular sieve core.
- Optimized for HFC refrigerants (R134a, R404A, R410A, etc.) with POE and PAG oils. Compatible with R22.
- Prevents harmful chemical reactions in the refrigeration system on a long term basis.
- 5 times better moisture adsorption capacity than traditional activated alumina driers, at both high and low humidity levels.
- Will not deplete oil additives.



Technical data and ordering

Type	Connection		Solid core		Drying capacity [kg refrigerant] ¹⁾						Liquid capacity in kW ²⁾			Solder		Flare
			Surface [cm ³]	Volume [cm ³]	R134a		R404A R507		R22 R407C R410A		R134a	R404A R507	R22 R407C R410A	Code no.	Code no.	Code no.
	in.	mm			24°C	52°C	24°C	52°C	24°C	52°C				in.	mm	
DML 032	1/4	6												023Z4552	023Z4551	023Z5035
DML 033	3/8	10	65	41	5.5	5	7.5	4.5	4.5	4	7	5	7	023Z4555	023Z4554	023Z5036
DML 052	1/4	6												023Z4559	023Z4558	023Z5037
DML 053	3/8	10	75	65	8.5	8	13	7.5	8	7	18	14	19	023Z4562	023Z4561	023Z5038
DML 082	1/4	6												023Z4567	023Z4566	023Z5039
DML 083	3/8	10												023Z4570	023Z4569	023Z5040
DML 084	1/2	12	110	100	12.5	12	20	11.5	12.5	11	19	14	21	023Z4572	023Z4571	023Z5041
DML 085	5/8	16												023Z4573	023Z4573	023Z5073
DML 162	1/4	6												023Z4575	023Z4574	023Z5042
DML 163	3/8	10												023Z4578	023Z4577	023Z5043
DML 164	1/2	12	175	225	27	25.5	43.5	24	27	23	30	22	33	023Z4580	023Z4579	023Z5044
DML 165	5/8	16												023Z4581	023Z4581	023Z5045
DML 166	3/4	19												023Z4582	023Z4582	023Z5046
DML 303	3/8	10												023Z4585	023Z4584	023Z0049
DML 304	1/2	12												023Z4587	023Z4586	023Z0050
DML 305	5/8	16	330	480	57	54	92.5	51	57	48.5	45	33	49	023Z4588	023Z4588	023Z0051
DML 306	3/4	19												023Z4589	023Z4589	023Z0193
DML 307	7/8	22												023Z4590	023Z4590	
DML 414	1/2	12												023Z4594	023Z4593	023Z0109
DML 415	5/8	16	400	650	80	75	130	70	80	74	53	37	58	023Z4595	023Z4595	023Z0110
DML 417	7/8	22												023Z4696	023Z4596	
DML 606	3/4	19												023Z4601	023Z4601	
DML 607	7/8	22	660	960	113	107	185	101	114	97	75	54	82	023Z4602	023Z4602	
DML 609	1 1/8	28												023Z4604	023Z4603	
DML 757	7/8	22	800	1300	160	150	260	140	160	148	82	60	90	023Z4605	023Z4605	
DML 759	1 1/8	28												023Z4607	023Z4606	

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%.

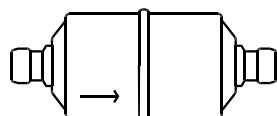
R404A, R507: From 1020 ppm W to 30 ppm W.

R407C: From 1020 ppm W to 30 ppm W.

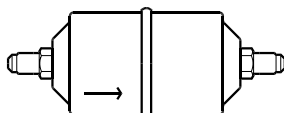
R410A: From 1050 ppm W to 60 ppm W.

R22: From 1050 ppm W to 60 ppm W in accordance with ARI 710-86

²⁾ Given in accordance with ARI 710-86 for $t_e = -15^\circ\text{C}$ (5°F),
 $t_c = 30^\circ\text{C}$ (85°F) and $\Delta p = 0.07$ bar (1 psig).



Solder version



Flare version

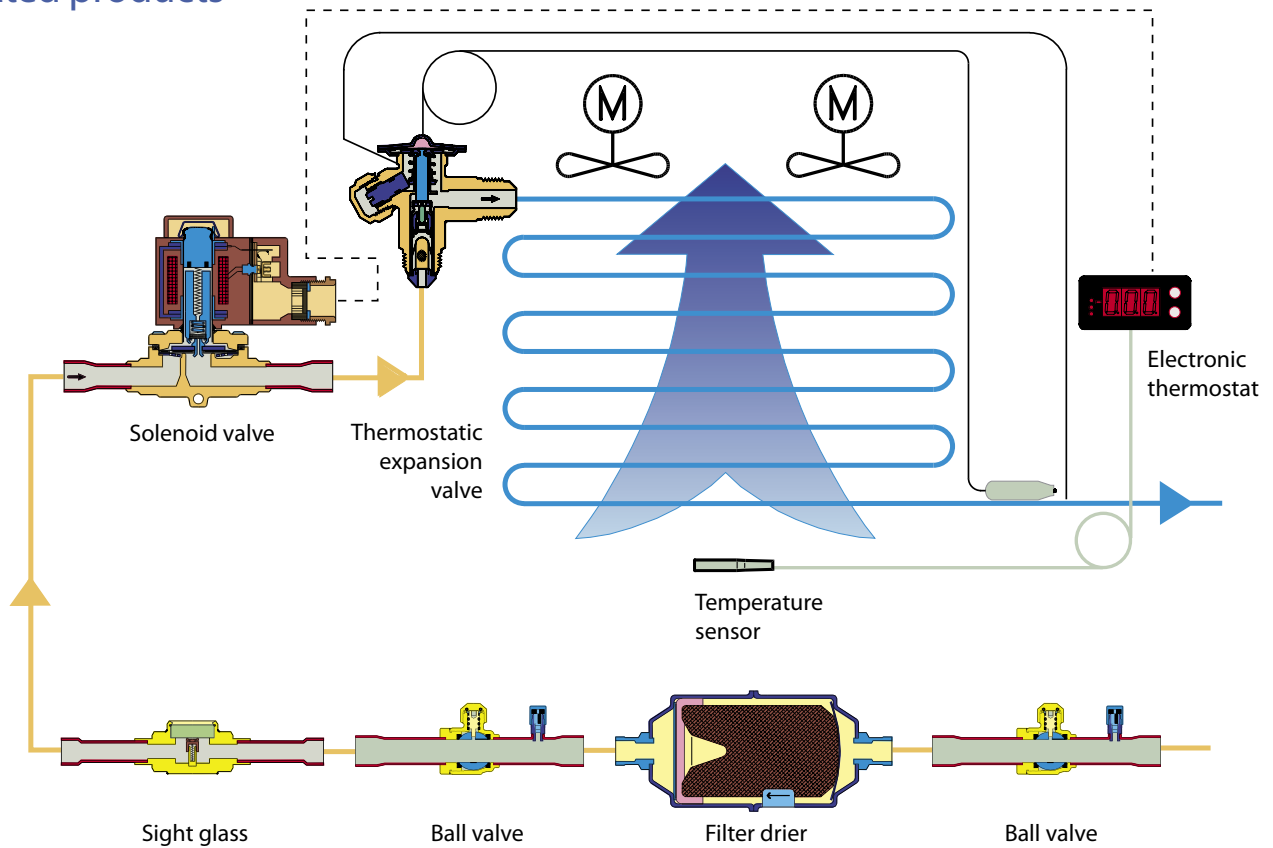


Quality in everything we do

DML is part of the Danfoss filter drier program which covers a wide range of filter driers for any purpose. Our production utilises state-of-the-art processes and every product is thoroughly tested in accordance with the most demanding standards.

If the component you are looking for is not mentioned in this leaflet or if you have special requirements, our local Danfoss teams can offer you help and guidance and will do their utmost to fulfil your needs.

Related products



The Danfoss filter drier programme



Standard filter driers



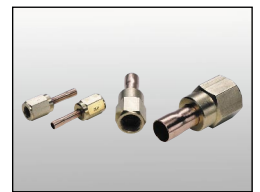
Combi filter driers



Bi-flow filter driers



Burn-out filter driers



Solder adapters