



Danfoss Filter Driers

Protect your HVAC/R system
with the most reliable Filter Drier in the market



A world leader in climate and energy technology

The Danfoss Group operates globally with the primary aims of making modern living possible for our stakeholders and being a leader in refrigeration, heating, power electronics, and mobile hydraulics.

We employ 24,000 people and produce approximately 250,000 components each day at our 76 factories in 25 countries.

We promise leadership in our businesses through reliability, excellence, and innovation – driving true customer satisfaction and solutions within climate and energy.

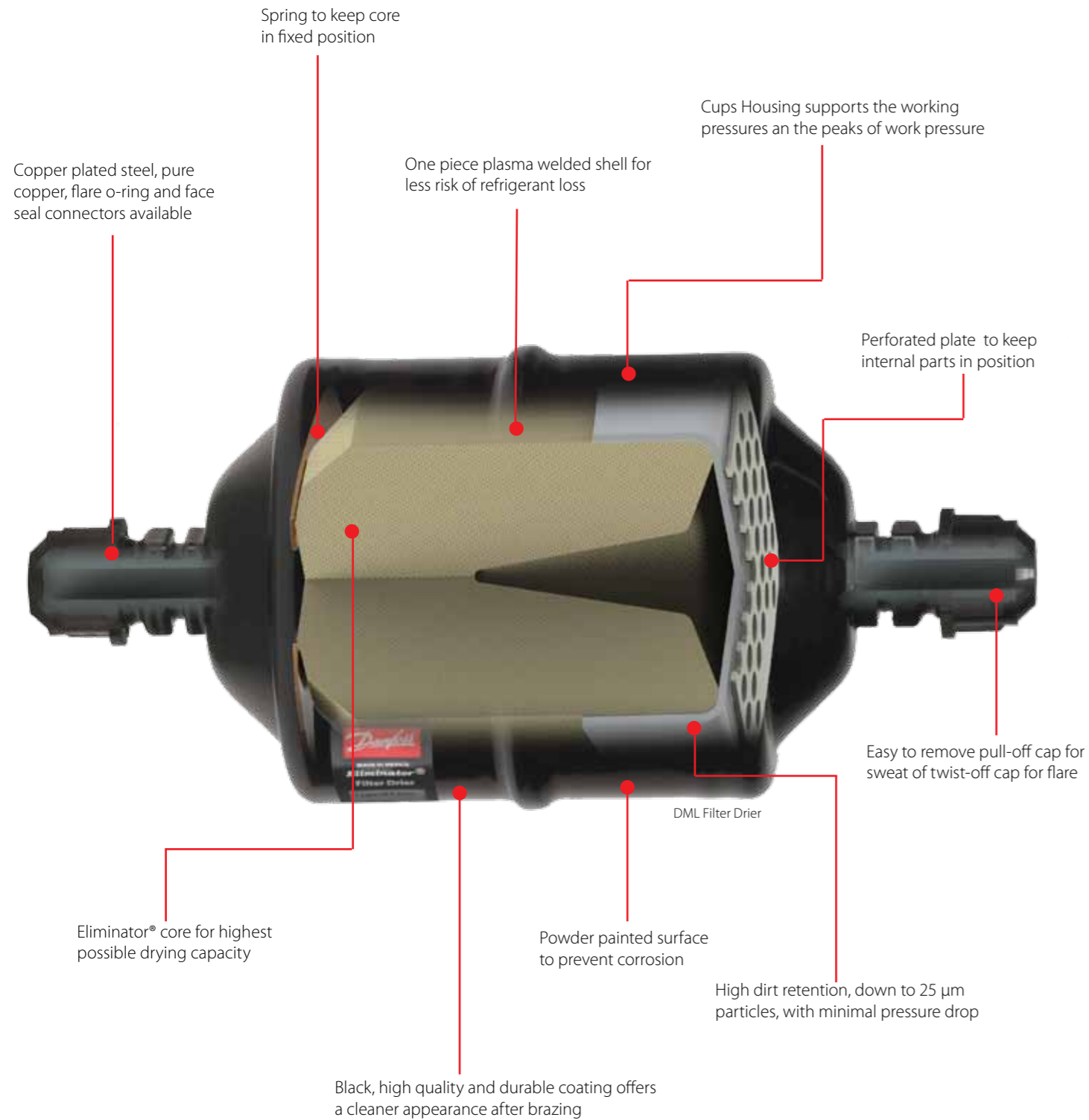
Extensive experience in all key HVAC/R segments

Danfoss plays a leading role in research, development and production in a wide spectrum of industries, and has been a key player in the HVAC/R field for more than 75 years. Our Refrigeration & Air Conditioning Division designs, produces and markets a comprehensive range of automated solutions and compressors for a wide variety of HVAC/R segments, including

- Heat Pumps
- Commercial Air Conditioning
- Residential Air Conditioning
- Commercial Refrigeration
- Household, Light Commercial and Mobile Refrigeration
- Wholesalers & Installers
- Industrial Refrigeration
- Food Retail

Learn more at www.danfoss.com

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Main Features

- High **drying capacity** avoids the risk of acid formation in the refrigeration system
- Maximum **working pressure** up to 46 bar
- High **dirt retention**, down to 25 microns particles, with minimal pressure drop
- Designed to work more than 250,000 **cycles**
- Wide **size range** from 3 to 75 cu. in.
- Lowest **leak rate**
- **Solid core** – high adsorption, low attrition
- Best refrigerant **flow rate**
- Best steel **wall thickness**
- Designed to stand more than 500 hrs. in **salt spray chamber** (special coating for marine applications available upon request)
- UL, CE, EN, RoHS, GOST and Chinese Manufacture License of Special Equipment **certifications**
- Black **paint** gives a better look after brazing installation
- No residual **moisture** when delivered



20%

Higher H₂O adsorption capacity

Laboratory testing has proven that Danfoss ELIMINATOR® filter driers offer higher water absorption capacity than competing products on the market.

Filter Driers

The Filter Drier is a vital element of the system's reliability as well as its lifespan. When you choose Danfoss Filter Driers, you are guaranteed a product that has been developed specifically for the challenges encountered in Air Conditioning and Refrigeration Systems.

Danfoss' range of Filter Driers covers both hermetic and exchangeable core types. The core makes the Filter Drier adsorb water and acids more effectively to prevent corrosion of the compressor's metal surfaces and ensure

that oil and refrigerant do not decompose. All Danfoss Filter Driers feature a solid core. Tests have shown that a solid core Filter Driers has a faster adsorption rate, a superior flow capacity as well as a low pressure drop, which can minimise maintenance and running costs.

Regardless the application, there is a Danfoss Filter Drier that will provide your system with long-lasting and reliable protection.



Maximum adsorption • Fits any HVAC/R system • Minimises refrigerant loss



		DML	DCL	DMB	DCB	DMC	DCC	DAS	DCR	Replaceable DCR Core / Insert					
		<ul style="list-style-type: none"> High drying capacity Avoids acid formation in the system Eliminates harmful chemical reactions and abrasive impurities 		<ul style="list-style-type: none"> Built-in check valve All dirt particles are retained irrespective of flow direction 		<ul style="list-style-type: none"> Combined Filter Drier and receiver 		<ul style="list-style-type: none"> Used in the suction line to clean up refrigeration and A/C systems after a compressor motor burn-out 		<ul style="list-style-type: none"> Features exchangeable cores Protects refrigeration and A/C systems from moisture, acids and solid particles 		DM	DC	DA	F
Application	System Application	Liquid line			Bi-flow		Combination Receiver and Filter Drier		Suction Line	Liquid line and suction line	Liquid and Suction line				
	Main applications														
Technical Specifications	Housing	Hermetic			Hermetic		Hermetic		Hermetic	Semihermetic	N/A				
	Core composition									(See core details)					
	Available sizes (cu. in.)	03 · 05 · 08 · 16 · 30 · 38 · 41 · 60 · 75			05 · 08 · 16 · 30		04 · 07 · 20 · 40		08 · 16 · 30 · 41 · 60 · 75	48 · 96 · 144 · 192	# cores or inserts: 1 → 48 2 → 96 3 → 144 4 → 192				
	Refrigerant	HC	•	•	•	•	•	•	•	•	•	•	•	•	
	HFC	•	•	•	•	•	•	•	•	•	•	•	•	•	
	HCFC	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Corrosion resistance	500 hrs ¹⁾			500 hrs		500 hrs		500 hrs	500 hrs	N/A				
Maximum allowable working pressure	46 bar (667 psig)			46 bar (667 psig)		42 bar (610 psig)		35 bar (500 psig)	46 bar (667psig)	N/A					
Maximum and minimum allowable temperature	-40 → +70 °C -40 → +160 °F			-40 → +70 °C -40 → +160 °F		-40 → +70 °C -40 → +160 °F		-40 → +70 °C -40 → +160 °F	-40 → +70 °C -40 → +160 °F	-40 → +70 °C -40 → +160 °F					
Connectors	Connector materials	Pure copper	•	•	•	•	•	•	•	N/A					
	Cu-plated	•	•	•	•	•	•	•	•	N/A					
	Steel	•	•	•	•	•	•	•	•	N/A					
	Connector sizes	Steel	1/4 → 1/2 in (6 → 19 mm)		1/4 → 1/2 in (6 → 16 mm)		N/A		3/8 → 1/2 in (10 → 16 mm)	1/2 → 2 1/2 in (16 → 54 mm)	N/A				
Pure copper	1/4 → 1 1/8 in (2.3 → 28 mm)		1/4 → 1/2 in (6 → 12 mm)		N/A		3/8 → 1 1/8 in	1/2 → 2 1/2 in (16 → 54 mm)	N/A						
Cu-plated	1/4 → 1 1/8 in (6 → 28 mm)		1/4 → 1 1/8 in (6 → 12 mm)		1/4 → 1/2 in (6 → 2 mm)		N/A	N/A	N/A						
Connection types	Solder	•	•	•	•	•	•	•	•	N/A					
Flare	•	•	•	•	•	•	•	•	•	N/A					
Flare o-ring	•	•	•	•	•	•	•	•	•	N/A					
Face seal	•	•	•	•	•	•	•	•	•	N/A					

¹⁾ Special coating for marine applications available (2000 hrs.)

ICON LEGEND:

Applications: A/C Systems Transport Refrigeration Chillers Food Retail

Core Composition: 100% Molecular sieve 80% Molecular sieve 20% Activated alumina 70% Activated alumina 30% Molecular sieve