



### Main Features

- High **drying capacity** prevents the risk of acid formation in the refrigeration system
- Maximum **working pressure** up to 46 bar
- High **dirt retention**, down to particles of 25 microns, with minimal pressure drop
- Designed to work more than 250,000 **cycles**
- Wide **size range** from 1.5 to 75 cu. in.
- **100% Helium Leak** tested driers
- **Solid core** – high adsorption, low attrition
- Designed to withstand 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

## 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](http://www.danfoss.com)

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

Wide range of Danfoss Filter driers



# 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 drier 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 of 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

## Choose the optimal solution

		LIQUID LINE			BI-FLOW		COMBINATION RECEIVER AND FILTER DRIER		SUCTION LINE	LIQUID AND SUCTION LINE	LIQUID AND SUCTION LINE				
TYPE		DML	DCL	DMT	DMB	DCB	DMC	DCC	DAS	DCR	DM	DC	DA	F	
Features		<ul style="list-style-type: none"> <li>High drying capacity</li> <li>Prevents acid formation in the system</li> <li>Eliminates harmful chemical reactions and abrasive impurities</li> </ul>		<ul style="list-style-type: none"> <li>Most suited for transcritical CO<sub>2</sub> applications</li> </ul>	<ul style="list-style-type: none"> <li>Built-in check valve</li> <li>All dirt particles are retained irrespective of flow direction</li> </ul>		<ul style="list-style-type: none"> <li>Combined Filter drier and receiver</li> </ul>		<ul style="list-style-type: none"> <li>Used in the suction line to clean up refrigeration and A/C systems after a compressor motor burn-out</li> </ul>	<ul style="list-style-type: none"> <li>Features exchangeable cores</li> <li>Protects refrigeration and A/C systems from moisture, acids and solid particles</li> <li>The DCR housing is sold individually (without core)</li> </ul>	<ul style="list-style-type: none"> <li>Most suited for applications requiring the highest moisture capacity</li> </ul>	<ul style="list-style-type: none"> <li>Most suited for applications requiring high moisture and acid adsorption capacity</li> </ul>	<ul style="list-style-type: none"> <li>For high acid and standard moisture capacity for cleanup after burnout</li> </ul>	<ul style="list-style-type: none"> <li>Designed for high dirt retention in liquid or suction line</li> </ul>	
	Applications	A/C Systems													
		Food Retail													
Transport Refrigeration															
Technical Specifications	Housing	Hermetic		Hermetic	Hermetic		Hermetic		Hermetic	Semihermetic	-				
	Core composition									See core details				-	
	Available sizes (cu. in.)	1.5 · 03 · 05 · 08 · 16 · 30 · 38 · 41 · 60 · 75			08 · 13	05 · 08 · 16 · 30		04 · 07 · 20 · 40		08 · 16 · 30 · 41 · 60 · 75	48 · 96 · 144 · 192	# cores or inserts: 1 core = 48 • 2 cores = 96 3 cores = 144 • 4 cores = 192			
	Refrigerant	HC <sup>1)</sup>	•	•	•	•	•	•	•	•	-	•	•	•	•
		HFC	•	•	•	•	•	•	•	•	•	•	•	•	•
		HFO	•	•	•	•	•	•	•	•	•	•	•	•	•
		HCFC	•	•	•	•	•	•	•	•	•	•	•	•	•
CO <sub>2</sub>		Subcritical	-	Transcritical	Subcritical	-	Subcritical	-	Subcritical	Subcritical	•	-	•	•	
Corrosion resistance	500 hrs <sup>2)</sup>		500 hrs <sup>1)</sup>	500 hrs		500 hrs		500 hrs	500 hrs	500 hrs	-				
Maximum working pressure (PS/MWP)	46 bar (667 psig)		140 bar (2030 psig)	46 bar (667 psig)		42 bar (610 psig)		35 bar (500 psig)	46 bar (667 psig)	-					
Media temperature	-40 – 70 °C -40 – 160 °F		-40 – 100 °C -40 – 212 °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	-40 – 70 °C -40 – 160 °F				
Connectors	Connection material and sizes	Pure copper	1/4 – 1 1/8 in. (2.8 – 28 mm)		-	1/4 – 3/8 in. (6 – 12 mm)		1/4 – 3/8 in. (6 – 8 mm)		3/8 – 1 1/8 in.	5/8 – 2 5/8 in. (16 – 54 mm)				
		Cu-plated	1/4 – 1 1/8 in. (6 – 28 mm)		1/4 – 1/2 in. (6 – 12 mm)	1/4 – 1 1/8 in. (6 – 12 mm)		1/4 – 1/2 in. (6 – 12 mm)		-	-				
		Steel <sup>3)</sup>	1/4 – 3/4 in. (6 – 19 mm)		1/4 – 3/8 in. (6 – 10 mm)	1/4 – 3/8 in. (6 – 16 mm)		-		3/8 – 3/8 in. (10 – 16 mm)	5/8 – 2 5/8 in. (16 – 54 mm)				
	Connection types	Solder	•	•	•	•	•	•	•	•	•	-			
		Flare	•	•	•	•	•	-	-	•	-	-			
	Flare o-ring	•	•	-	-	-	-	-	-	-	-				
	Face seal	•	•	-	-	-	-	-	-	-	-				

<sup>1)</sup> HC refrigerants compatibility: only solder versions (cu-plated/pure copper) and connection sizes below 25mm are approved for flammable refrigerants now  
<sup>2)</sup> Special coating for marine applications available (2,000 hours)  
<sup>3)</sup> Flare steel connectors. Only DCR filter drier is presented with solder/welding steel connectors

