

Refrigerants for Filter Driers

Filter Driers				A1 - Non-Flammable														A2L - Mildly Flammable										A3						
		Pressure ¹ [bar]	UL	PED	R1233zd (E)	R134a	R407A/C/F/H	R410A	R422B	R422D	R448A	R449A	R449B	R450A	R452A	R513A	R515B	R744 (CO2)	R1234yf	R1234ze (E)	R32	R444B	R452B	R454A	R454B	R454C	R455A	R457A	R516A	R290	R600a			
Hermetic	DML / DCL Liquid line	46	✓	✓	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²
	DMB / DCB Bi-flow	46	✓	✓	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²
	DAS Suction Line - Burnout	35	✓	✓	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²
	DMC / DCC Receiver drier	42	✓	✓	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²	• ²
	DMT CO2 Trans-critical	140	✓	✓															•															
	DMSC CO2 Sub-critical	52	✓	✓															•															
Semi-Hermetic Replaceable Solid Core	DCR	28/46	✓	✓	•	•	•	•	•	•	•	•	•	•	•	•	•	•																
	DCR H (Jan 24)	46	✓		•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•			
	DCRE	50	✓	✓	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	• ³	• ³	
	DCR CO2 Trans-critical (May 24)	90	✓	✓														•																

UL207 and CAN/CSA C22.2, No.140.3.
 PED 2014/68/EU (EN14276, EN13463, EN378)

(1) Few Pressure Specifications vary according to size and connectors, please refer to Pressure Specifications for each line in Product Store or Manufacturer's Declaration.

(2) Hermetic Filters:

UL Approved for all soldered Copper/Cu-Plated connection sizes.

PED Approved for connection sizes below 25 mm for solder version (copper/cu-plated) when using A2L and A3; and threaded connectors are approved just when using A2L.

(3) Semi Hermetic Filters:

DCRE is UL approved for A1, and A2L.

DCRE is PED approved for A1, A2L, and A3.

For any refrigerants not listed and for the detailed information per product, please contact Danfoss or check in Coolselector: coolselector.danfoss.com

Pressure Specification (1/3)

Types	Connector type	Filter size	Connector size	Max. allowable pressure
DML, DCL, DMB, DCB	Solder Pure Copper	1.5, 03, 05, 08, 16, 30, 38 & 60 cu in	¼" - ⅞" ODM / ODF	46 bar (667 psig)
			1½" ODF	
		41 cu in	½" - ⅝" ODF	35 bar (500 psig)
			¾" - ⅞" ODM / ODF 1½" ODF	
	75 cu in	¾" - 1½" ODM / ODF		
	Solder Cu-Plated	1.5 to 60 cu in	¼" - ⅞" ODM / ODF	46 bar (667 psig)
			1½" ODF	
		75 cu in	⅞" - 1½" ODF	46 bar (667 psig)
Flare, Flare O-ring & Face Seal	1.5 to 60 cu in	¼" - ¾"	46 bar (667 psig)	
DMC, DCC	Solder Pure Copper	04 to 40 cu in	¼" - ½" ODM / ODF	42 bar (610 psig)
	Solder Cu-Plated	04 to 40 cu in	¼" - ½" ODM / ODF	42 bar (610 psig)
	Flare & Face Seal	04 to 40 cu in	¼" - ½"	42 bar (610 psig)

Pressure Specification (2/3)

Types	Connector type	Filter size	Connector size	Max. allowable pressure
DAS	Solder Pure Copper	08 to 60 cu in	1/4" - 7/8" ODM / ODF	35 bar (500 psig)
			1 1/8" - 1 3/8" ODF	35 bar (500 psig)
	75 cu in	1/4" - 1 3/8"	35 bar (500 psig)	
	Flare	08 to 60 cu in	1/4" - 3/4"	35 bar (500 psig)
DGP	Face Seal	79 cu in	1/4" - 3/4"	13.7 bar (200 psig)
DMT	Solder Cu-Plated	08 to 13 cu in	1/4" - 1/2" ODF	140 bar (2030 psig)
	NPT, Flare, Flare O-ring	08 to 13 cu in	1/4" - 1/2"	140 bar (2030 psig)
DMSC	Solder Pure Copper and Steel	03 to 08 cu in	1/4" - 1/2" ODF	52 bar (754 psig)

Types:	Allowable temperature:
DML, DCL, DMB, DCB, DMC, DCC, DAS, DGP.	-40°C/+70°C (-40°F/+160°F)
DMT, DAT,	-40°C/+100°C (-40°F/+212°F)
DMSC	-30°C/+17°C (-22°F/+63°F)

Pressure Specification (3/3)

Type	TS	PS EN (bar/psig)
DCR 048 / H	-40°C/+70°C (-40°F/+160°F)	46 bar (667 psig)
DCR 096 / H	-40°C/+70°C (-40°F/+160°F)	46 bar (667 psig)
DCR 144 / H	-40°C/+70°C (-40°F/+160°F)	35 bar (500 psig) ^A
	-40°C/+70°C (-40°F/+160°F)	46 bar (667 psig) ^B
DCR 192 / H	-40°C/+70°C (-40°F/+160°F)	28 bar (400 psig) ^A
	-40°C/+70°C (-40°F/+160°F)	40 bar (580 psig) ^B

A) PED: PS limited when using with strainer
or as a receiver application.
UL approved 46 bar when using with strainer.

B) For drier application using all permissible cores.
DCR 192 / DCR H 192:
UL approved 46 bar.
PED limited to 40 bar.

Type	TS	PS (bar/psig)
DCRE 048	-40°C/+70°C (-40°F/+160°F)	50 bar (725 psig)