

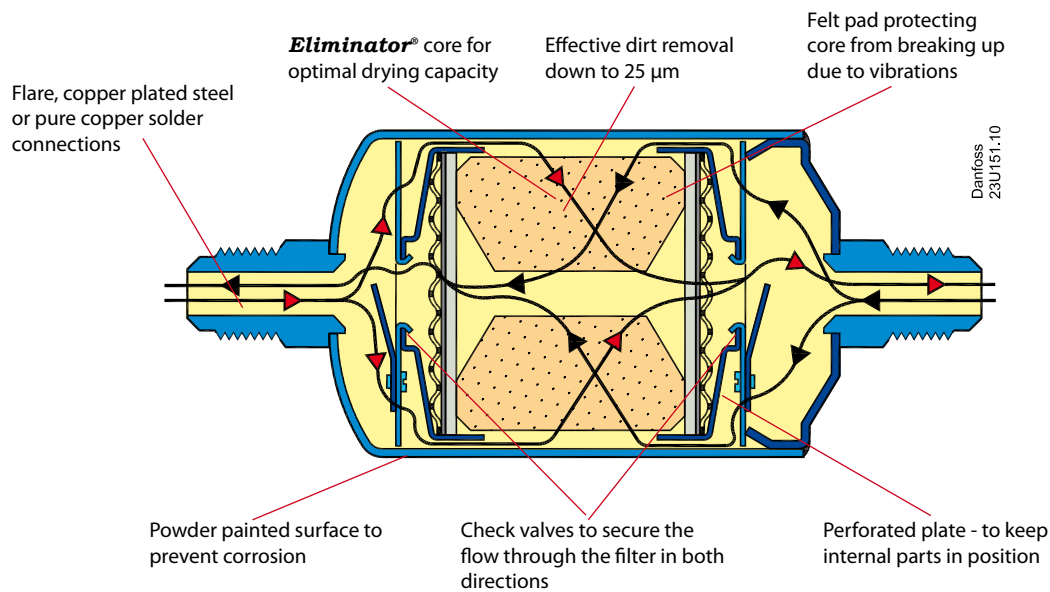


DMB – Bi-flow filter driers

Bi-flow filter driers have built-in check valves which ensure that refrigerant liquid always flows through the filter driers from the outer side of the filter core towards the center. Thus all dirt particles are retained irrespective of flow direction.

DMB filter driers ensure fast and effective adsorption of moisture as well as organic and inorganic acids.

Features



Applications	Advantages	Facts
<ul style="list-style-type: none"> Traditional refrigeration Heat pumps Air conditioning units 	<ul style="list-style-type: none"> No dirt released by reversing the flow direction The check valves are not sensitive to dirt and give minimum restriction, irrespective of flow direction When building heat pump systems, the use of Bi-flow filters can, save up to ten solder connections. This reduces production costs and the number of potential leakage points. 	<ul style="list-style-type: none"> DMB filter driers contain a solid core consisting of 100% 3Å Molecular Sieve. DMB filter driers are especially suitable for heat pumps with HFC refrigerant and polyolester oil with additives Optimum flow characteristics and dirt retention Optimized for HFC refrigerants.

Technical data and ordering

Solder, ODF (Cu-plated)

Type	Conn. in.	Code no.	Conn. mm	Code no.
DMB 082s	1/4	023Z1473	6	023Z1461
DMB 083s	3/8	023Z1472	10	023Z1459
DMB 084s	1/2	023Z1471	12	023Z1457
DMB 163s	3/8	023Z1476	10	023Z1455
DMB 164s	1/2	023Z1475	12	023Z1453
DMB 165s	5/8	023Z1474	16	023Z1474
DMB 304s	1/2	023Z1479	12	023Z1451
DMB 305s	5/8	023Z1478	16	023Z1478
DMB 307s	7/8	023Z1477	22	023Z1477

Flare

Type	Conn. in.	mm	Code no.
DMB 082	1/4	6	023Z1412
DMB 083	3/8	10	023Z1411
DMB 084	1/2	12	023Z1410
DMB 162	1/4	6	-
DMB 163	3/8	10	023Z1415
DMB 164	1/2	12	023Z1414
DMB 165	5/8	16	023Z1413
DMB 303	3/8	10	023Z1419
DMB 304	1/2	12	023Z1418
DMB 305	5/8	16	023Z1417

Drying and liquid capacity

R134a, R507, R404A, R407C, R410A, R22

Type	Drying capacity [kg refrigerant] ¹⁾								Liquid capacity [kW] ²⁾			Max Working Pressure PS [bar]
	R134a		R404A R507		R407C R410A		R22		R134a	R404A R507	R22 R407C R410A	
	24 °C	52 °C	24 °C	52 °C	24 °C	52 °C	24 °C	52 °C				
DMB 082 / 082s	9.2	8.5	8.7	8.1	8.0	7.3	8.7	8.0	3.9	2.8	4.3	46
DMB 083 / 083s									7.4	5.3	8.2	46
DMB 084 / 084s									8.3	6.0	9.2	46
DMB 162	17.8	16.5	16.8	15.7	15.4	14.1	16.8	15.6	7.6	5.3	8.8	46
DMB 163 / 163s									18	13	20	46
DMB 164 / 164s									28	20	32	46
DMB 165 / 165s									37	29	40	46
DMB 303	43.5	40.4	41.4	38.4	37.8	34.6	41.2	38.1	19	15	21	46
DMB 304 / 304s									28	20	31	46
DMB 305 / 305s									38	28	42	46
DMB 307s									43	32	47	46

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⁾ Capacity given in accordance with ARI 710-86
t_e = -15 °C (5°F)
t_c = 30 °C (86°F)
Δp = 0.07 bar (1 psig).