

# FILTER DRIERS

Code No: see table

## FOM type



### APPLICATION

The FOM filter driers are designed for use on liquid line of refrigeration and air conditioning systems. Features:

- high water absorbing capacity and very effective water capacity,
- compatibility to all CFC, HFC, HCFC, and HC refrigerants,
- high abrasion resistance of 3A granular molecular sieve,
- high acid neutralization,
- effective filtration of dirt,
- low pressure drop during normal operation,
- working pressure: 40 bar,
- bursting pressure: 200 bar.

### CONSTRUCTION

The filter drier shell is made of steel tube welded together with two cups with thread or solder connections. Thread connections are of nickel coated steel. Solder connections are of copper tubes. The shell is powder painted.

The molecular sieve and alumina oxide inside shell is hold down by steel net cup and steel spring.

On the outlet of molecular sieve is placed special fibrous material for fine filtration.

### MOUNTING

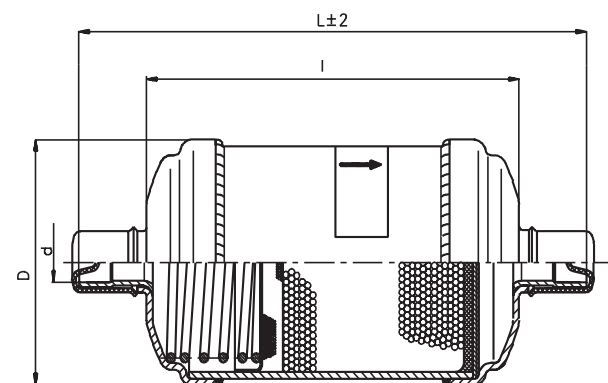
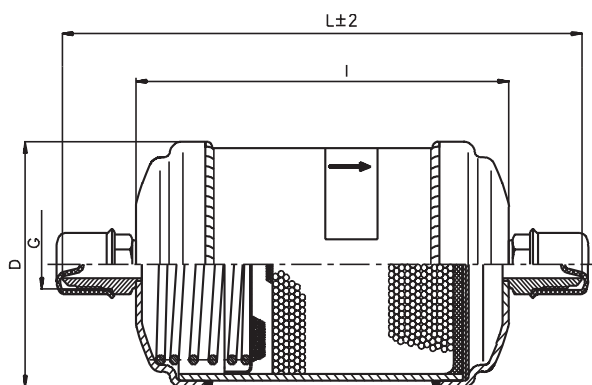
The filter driers can be installed to pipe line by flare connections acc. to DIN 8912 or by soldering. They may be mounted in any position but the vertical position with top feed is highly recommended.

The direction of flow should be always in accordance with the arrow marked on the shell. Leaving the filter drier over a period of time without the protective cups on fittings causes reduction of water capacity.

### TECHNICAL DATA:

Water capacity of liquid refrigerant in grams at +30°C

Refrigerant	R134a	R22	R404A	
EPD [ppm]	60	60	30	
Type	030	4,2	3,9	4,3
	050	8,0	7,5	8,2
	080	12,9	12,0	13,2
	160	25,8	24,0	26,4
	300	49,9	46,5	51,1



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**TECHNICAL DATA:****Filter driers with metric flare fittings**

Type	Code No	Fittings		D mm	L mm	I mm	Flow capacity kW <sup>1/</sup>		
		Ø tube	G				R22	R134a	R404A
FOM-031	2007-5101-01	Ø8	M14x1,5	49	113,5	65,5			
FOM-032	2007-5102-01	Ø6	M12x1,5		109,5		9,50	8,62	6,23
FOM-051	2007-5111-01	Ø8	M14x1,5	59	126,5	78,5			
FOM-052	2007-5112-01	Ø6	M12x1,5		122,5		9,30	8,43	6,10
FOM-053	2007-5113-01	Ø10	M16x1,5		126,5		30,8	27,9	20,2
FOM-081	2007-5121-01	Ø8	M14x1,5	59	146,5	98,5			
FOM-082	2007-5122-01	Ø6	M12x1,5		142,5		8,77	7,95	5,76
FOM-083	2007-5123-01	Ø10	M16x1,5		146,5		30,0	27,2	19,7
FOM-084	2007-5124-01	Ø12	M18x1,5		157,5		47,5	43,1	31,2
FOM-161	2007-5131-01	Ø8	M14x1,5	76	171	123			
FOM-162	2007-5132-01	Ø6	M12x1,5		167		8,60	7,80	5,64
FOM-163	2007-5133-01	Ø10	M16x1,5		171		29,3	26,6	19,2
FOM-164	2007-5134-01	Ø12	M18x1,5		182		51,4	46,6	33,7
FOM-165	2007-5135-01	Ø16	M24x1,5		190		73,4	66,6	48,2
FOM-303	2007-5143-01	Ø10	M16x1,5	76	234	186	29,3	26,6	19,2
FOM-304	2007-5144-01	Ø12	M18x1,5		245		51,4	46,6	33,7
FOM-305	2007-5145-01	Ø16	M24x1,5		253		73,4	66,6	48,2

**Filter driers with UNF flare fittings**

Type	Code No	Fittings		D mm	L mm	I mm	Flow capacity kW <sup>1/</sup>		
		Ø tube	G				R22	R134a	R404A
FOM-032C	2007-6102-01	1/4"	7/16-20UNF	49	107,5	65,5	9,5	8,62	6,23
FOM-052C	2007-6112-01	1/4"	7/16-20UNF	59	120,5	78,5	9,3	8,43	6,1
FOM-053C	2007-6113-01	3/8"	5/8-18UNF		130,7		30,8	27,9	20,2
FOM-082C	2007-6122-01	1/4"	7/16-20UNF	59	140,5	98,5	8,77	7,95	5,76
FOM-083C	2007-6123-01	3/8"	5/8-18UNF		150,7		30	27,2	19,7
FOM-084C	2007-6124-01	1/2"	3/4-16UNF		158,7		47,5	43,1	31,2
FOM-162C	2007-6132-01	1/4"	7/16-20UNF		165		8,6	7,8	5,64
FOM-163C	2007-6133-01	3/8"	5/8-18UNF	76	175,2	123	29,3	26,6	19,2
FOM-164C	2007-6134-01	1/2"	3/4-16UNF		183,2		51,4	46,6	33,7
FOM-165C	2007-6135-01	5/8"	7/8-14UNF		187,2		73,4	66,6	48,2
FOM-303C	2007-6143-01	3/8"	5/8-18UNF	76	238,2	186	29,3	26,6	19,2
FOM-304C	2007-6144-01	1/2"	3/4-16UNF		246,2		51,4	46,6	33,7
FOM-305C	2007-6145-01	5/8"	7/8-14UNF	76	250,2	73,4	66,6	48,2	

<sup>1/</sup> Flow capacities per „ARI 710-86“ based on 0,14 bar pressure drop, -15°C evaporator temperature and +30°C condensing temperature.

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## Filter driers with solder fittings

Type	Code No	Fittings D		D mm	L mm	I mm	Flow capacity kW <sup>1/</sup>		
		mm	cal				R22	R134a	R404A
FOM-032S	2007-7102-01	6	-	49	95,5	65,5	16,2	14,7	10,6
FOM-032SC	2007-8102-01	-	1/4				16,2	14,7	10,6
FOM-052S	2007-7112-01	6	-	59	108,5	78,5	15,9	14,4	10,4
FOM-052SC	2007-8112-01	-	1/4				15,9	14,4	10,4
FOM-053S	2007-7113-01	10	-		118,5		38,5	34,9	25,3
FOM-053SC	2007-8113-01	-	3/8				38,5	34,9	25,3
FOM-082S	2007-7122-01	6	-	59	128,5	98,5	15	13,6	9,8
FOM-082SC	2007-8122-01	-	1/4				15	13,6	9,8
FOM-083S	2007-7123-01	10	-		138,5		37,5	34	24,6
FOM-083SC	2007-8123-01	-	3/8				37,5	34	24,6
FOM-084S	2007-7124-01	12	-		142,5		50	45,3	32,8
FOM-084SC	2007-8124-01	-	1/2				50	45,3	32,8
FOM-162S	2007-7132-01	6	-	76	153	123	14,5	13,2	9,52
FOM-162SC	2007-8132-01	-	1/4				14,5	13,2	9,52
FOM-163S	2007-7133-01	10	-		163		37,5	34	24,6
FOM-163SC	2007-8133-01	-	3/8				37,5	34	24,6
FOM-164S	2007-7134-01	12	-		167		55,5	50,3	36,4
FOM-164SC	2007-8134-01	-	1/2				55,5	50,3	36,4
FOM-165SC	2007-8135-01	16	5/8		172		79	71,6	51,8
FOM-303S	2007-7143-01	10	-	76	226	186	37,5	34	24,6
FOM-303SC	2007-8143-01	-	3/8				37,5	34	24,6
FOM-304S	2007-7144-01	12	-		230		55,5	50,3	36,4
FOM-304SC	2007-8144-01	-	1/2				55,5	50,3	36,4
FOM-305SC	2007-8145-01	16	5/8		235		79	71,6	51,8
FOM-307SC	2007-8147-01	22	7/8		243		94	85,2	61,7

<sup>1/</sup> Flow capacities per „ARI 710-86“ based on 0,14 bar pressure drop, -15°C evaporator temperature and +30°C condensing temperature.

Suggested system capacity in kW <sup>2/</sup>

Type	Refrigeration commercial and low temperature equipment			Field replacement or field built-up		OEM self-contained	
	R22	R134a	R404A	R22	R134a	R22	R134a
FOM-032	2,5	2	1,5	4,5	4	6	5,5
FOM-052	3	2,5	2	5	4,5	7	6,5
FOM-053	8	7	6	13	12	15	13
FOM-082	3	2,5	2	5	4,5	7	6,5
FOM-083	8	7	6	13	12	18	13
FOM-084	10	9	8	18	17	25	22
FOM-162	3,5	3	2,5	5,5	5	7,5	7
FOM-163	8,5	7,5	6,5	13,5	12,5	18,5	15
FOM-164	11	10	9	19	17,5	26	23
FOM-165	16	15	11	30	26	40	35
FOM-303	9	7,5	6,5	14	13	22	20
FOM-304	12	11	9	20	18	28	26
FOM-305	18	16	12	32	28	45	40
FOM-307	30	27	20	40	34	70	54

<sup>2/</sup> System capacities based on 0,14 bar pressure drop

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