LIQUID LINE FILTER DRIER
DMHSG SERIES (WITH SIGHT GLASS)

R-410A REXDY

c UL us LISTED

File No. SA33181





Filter Drier with ODS connection

7) Carefully Selected blend in right percentage of molecular sieves and activated alumina is approved for all CFC, HCFC and HFC refrigerant including R12,22, 123, 125, 134a, 401A, 401B, 402A, 402B, 404A, 407A/B/C, 408A, 409A, 410A, 410B, 500, 502, 507, 508, 509 etc., and lubricant combination i.e. Mineral oils, Alkyl-benzene (AB), Polyester Oil (POE) and Polyalkylene Premium (PAG).

8) Furnace Brazing of inlet & outlet connection to steel caps is done in controlled atmosphere avoiding oxidization and this gives very bright effect to all components. This is the most strongest and reliable joining method known which gives very high burst pressure strength.

9) All internal and external components i.e. springs, perforated baffles, dish end, ERW tube are cleaned, degreased, coated and passivated for rust protection in a unique 9 tank cleaning process against harmful acids which are a common feature with these new gases.

10) Leak Testing: 2 Stage leak testing is done with dry N2.
(a) After Mig welding process.(b) After powder coating.

11) Paint: Oven baked, corrosion resistant, epoxy powder coating done on rugged steel shells after unique blasting & pre-cleaning process, treating and drying for high salt spray rating of 1000 hrs and can be used in all environment and adverse conditions.

12) SAE and Solid Copper Sweat fittings of pure copper available in standard sizes in all the models. High brazing strength between the drier and fitting end in ODF range helps to stand flame temperature while fixing into the system (Please follow the brazing instruction.)

13) All SAE and ODS type DMH Driers are with Positive nitrogen pressure. This prevents moisture from entering the drier in storage and presence of pressure also confirms no leaks in particular piece at the time of fitting.

14) DMH are tested for 653 PSIG (45 bar) safe working pressure and burst Pressure of 3262PSIG.

Refer Page No.2 for Model Selection Recommendation.
Refer Page No.5 for Dimensional and Technical Details.

The DMHSG Liquid Line Filter Drier is a unique unit combination of filter drier with the convenience of a sight glass/moisture indicator in one compact, easy to install package.

Dry All **DMHSG** series filter drier is similar to our DMH series compact bead type drier designed to protect the refrigerant system from liquid and solid contaminants. They incorporate a specially formulated desiccant blend of molecular sieves and activated alumina providing very high mechanical strength, outstanding filtering capability, high moisture, adsorption and acid removal.

In addition at the outlet side, a sight glass with a built- in moisture/liquid indicator gives a visual indication of the condition of the refrigerant, both the moisture content and the state of refrigerant, as it leave the liquid line filter drier. The filter is completely manufactured in special grade steel, either with nickel- plated Flare threaded connections or with nickel plated Solder connections. Liquid/moisture indicator is manufactured with glass lens directly sealed onto a metallic ring. The moisture/liquid indicators consist of a sensitive element as a ring which changes color passing from blue to grey according to the percentage of moisture in the system. When the sensitive element becomes red, it means its time to replace the filter drier for the proper working of the system. The indication of bubbles on the glass lens means a) Pressure drop across the filter drier too high, b) No sub-cooling, c) Insufficient refrigerant in whole system.

These combo driers are designed for OEM's for installation on commercial refrigerating systems and on civil and industrial air-conditioning plants which use HFC refrigerant. All in one filter drier with only two connections save installation time and money, as well as reduction in chances of leaks due to brazing or flaring error.

Carefully Selected blend in right percentage of molecular sieves and activated alumina is approved for all CFC, HCFC and HFC refrigerant including R12,22, 123, 125, 134a, 401A, 401B, 402A, 402B, 404A, 407A/B/C, 408A, 409A, 410A, 410B, 500, 502, 507, 508, 509 etc., and lubricant combination i.e. Mineral oils, Alkyl-benzene (AB), Polyester Oil (POE) and Polyalkylene Premium (PAG).

Refer Page No.2 for Model Selection Recommendation.
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Filter Drier with SAE connection & Sight Glass



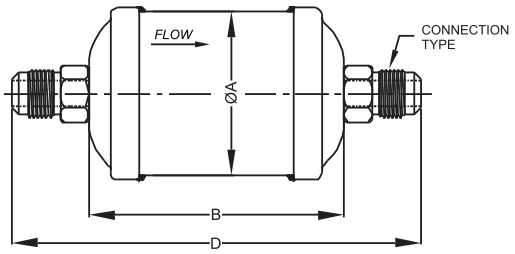
Filter Drier with ODS connection & Sight Glass

Dry All

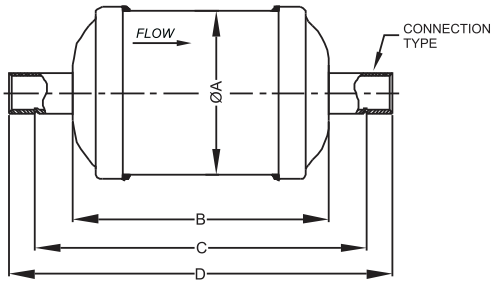
LIQUID LINE FILTER DRIER
DMH SERIES (BEAD TYPE)

DMH SERIES
BEAD TYPE

DIMENSIONAL DATA



DRAWING - 1



DRAWING - 2

SR NO.	MODEL	OUTER DIA Ø A		BODY LENGTH B		STOPPER TO STOPPER LENGTH C		OVERALL LENGTH D		CONNECTION TYPE inch	REFER DRAWING NO.
		mm	inch	mm	inch	mm	inch	mm	inch		
1	DMH 032F	Ø 42	Ø 1.6	67	2.64	--	--	113	4.45	1/4" SAE	DRAWING - 1
2	DMH 032S					97	3.82	117	4.61	1/4" ODS	DRAWING - 2
3	DMH 033F					--	--	121	4.76	3/8" SAE	DRAWING - 1
4	DMH 033S					97	3.82	117	4.61	3/8" ODS	DRAWING - 2
5	DMH 052F	Ø 63.5	Ø 2.5	78	3.07	--	--	124	4.88	1/4" SAE	DRAWING - 1
6	DMH 052S					108	4.25	128	5.04	1/4" ODS	DRAWING - 2
7	DMH 053F					--	--	132	5.19	3/8" SAE	DRAWING - 1
8	DMH 053S					108	4.25	128	5.04	3/8" ODS	DRAWING - 2
9	DMH 082F			99	3.89	--	--	145	5.71	1/4" SAE	DRAWING - 1
10	DMH 082S					129	5.07	149	5.86	1/4" ODS	DRAWING - 2
11	DMH 083F					--	--	153	6.03	3/8" SAE	DRAWING - 1
12	DMH 083S					129	5.07	149	5.86	3/8" ODS	DRAWING - 2
13	DMH 084F					--	--	159	6.25	1/2" SAE	DRAWING - 1
14	DMH 084S					129	5.07	149	5.86	1/2" ODS	DRAWING - 2
15	DMH 163F			122	4.80	--	--	176	6.93	3/8" SAE	DRAWING - 1
16	DMH 163S					152	5.98	172	6.77	3/8" ODS	DRAWING - 2
17	DMH 163R					--	--	160	6.29	11/16-16 ORFS	DRAWING - 1
18	DMH 164F					--	--	182	7.16	1/2" SAE	DRAWING - 1
19	DMH 164S					152	5.98	172	6.77	1/2" ODS	DRAWING - 2
20	DMH 164R					--	--	170	6.69	13/16-16 ORFS	DRAWING - 1
21	DMH 165F					--	--	190	7.48	5/8" SAE	DRAWING - 1
22	DMH 165S					152	5.98	172	6.77	5/8" ODS	DRAWING - 2
23	DMH 165R					--	--	176	6.93	1"-14 ORFS	DRAWING - 1
24	DMH 303F	Ø 76.2	Ø 3	190	7.48	--	--	244	9.61	3/8" SAE	DRAWING - 1
25	DMH 303S					220	8.66	240	9.45	3/8" ODS	DRAWING - 2
26	DMH 303R					--	--	228	8.97	11/16-16 ORFS	DRAWING - 1
27	DMH 303 ORN					--	--	228	8.97	3/8" 'O' RING	DRAWING - 1
28	DMH 304F					--	--	250	9.85	1/2" SAE	DRAWING - 1
29	DMH 304S					220	8.66	240	9.45	1/2" ODS	DRAWING - 2
30	DMH 304R					--	--	238	9.37	13/16-16 ORFS	DRAWING - 1
31	DMH 305F					--	--	258	10.16	5/8" SAE	DRAWING - 1
32	DMH 305S					220	8.66	240	9.45	5/8" ODS	DRAWING - 2
33	DMH 305R					--	--	244	9.61	1"-14 ORFS	DRAWING - 1
34	DMH 306F					--	--	270	10.63	3/4" SAE	DRAWING - 1
35	DMH 306S					220	8.66	240	9.45	3/4" ODS	DRAWING - 2
36	DMH 307S*#					220	8.66	264	10.39	7/8" ODS	DRAWING - 2
37	DMH 309S*#					220	8.66	274	10.78	1 1/8" ODS	DRAWING - 2
38	DMH 414F	Ø 88.9	Ø 3.5	198	7.79	--	--	258	10.16	1/2" SAE	DRAWING - 1
39	DMH 414S					228	8.97	248	9.76	1/2" ODS	DRAWING - 2
40	DMH 415F					--	--	266	10.47	5/8" SAE	DRAWING - 1
41	DMH 415S					228	8.97	248	9.76	5/8" ODS	DRAWING - 2
42	DMH 415-4F					--	--	262	10.32	1/2" SAE IN & 5/8" SAE OUT	DRAWING - 1
43	DMH 415-4R					--	--	249	9.81	13/16-16 ORFS IN & 1"-14 ORFS OUT	DRAWING - 1
44	DMH 417S*#					228	8.97	272	10.71	7/8" ODS	DRAWING - 2
45	DMH 419S*#					228	8.97	282	11.11	1 1/8" ODS	DRAWING - 2

1) INTERNAL ASSEMBLY - BEAD TYPE
2) MAXIMUM WORKING PRESSURE - 45 Bar (653 psig)
3) # MARK MAXIMUM WORKING PRESSURE - 35 bar (508 psig)
4) SAE, ORFS & "O" RING TYPE CONNECTION IS IN STEEL , NICKEL PLATED
5) ODS TYPE CONNECTION IS IN COPPER
6) * MARK CONNECTION STEEL, COPPER PLATED

REPLACEABLE CORE SHELL

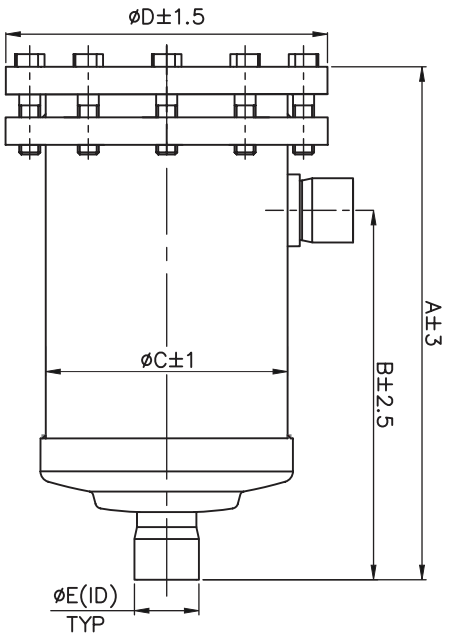
Dry All core shell with replaceable solid core is used in Liquid and / or Suction lines in large refrigeration and air-conditioning systems. These are specially designed to provide flexibility over a wide range of applications.

A wide range of fittings for suction line applications and interchangeable lay-in dimensions with other manufacturer model increases product versatility for use of 48 cubic inch core, which helps in removal of moisture, acids, waste and oil. Option of single/two and three cores available in varieties of model A new design of internal assembly provides the advantage of using Dry All 'DPE 48 BD' and 'DSS 48' filter element, which removes solid contamination such as copper oxides, chips and other metal particles during flushing and continuous running application in both directions.

Features and Specification :

- Housing is made of sturdy steel for longer life.
- Shell compatible with all refrigerants.
- Solid copper end connection with full flow fitting for low pressure drop
- All welded construction with unique hardware for hassle free installation
- Core holders are designed to ensure automatic and immediate centering of the filter shells.
- Each housing and core holder is treated against corrosion in a unique pretreatment process.
- External corrosion resistant epoxy powder paint finish surpassing 1000 hours ASTM Salt spray test for corrosion.
- No-Flow area restriction outside the filter shells because of appropriate filtering system.
- 100% leak tested before and after powder coating.
- Shells and gasket are compatible with HFC and HCFC as well as with their associated oils and additives.
- Maximum working pressure : 653 PSIG
- Temperature Range: - 40°C → +70°C / - 40°F → +160°F





Sr. No.	Model No.	A		B		Ø C		D		Connection Size (E) ID	No. of Cores
		(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)		
1	DRC - 485S	226	8.90	150	5.91	114	4.49	154	6.06	5/8"	Single
2	DRC - 487S	226	8.90	152	5.98	114	4.49	154	6.06	7/8"	Single
3	DRC - 489S	227	8.94	151	5.94	114	4.49	154	6.06	1 1/8"	Single
4	DRC - 4811S	232	9.13	157	6.18	114	4.49	154	6.06	1 3/8"	Single
5	DRC - 967S	372	14.65	297	11.69	114	4.49	154	6.06	7/8"	Double
6	DRC - 969S	372	14.65	297	11.69	114	4.49	154	6.06	1 1/8"	Double
7	DRC - 9611S	378	14.88	302	11.89	114	4.49	154	6.06	1 3/8"	Double
8	DRC - 9613S	378	14.88	302	11.89	114	4.49	154	6.06	1 5/8"	Double

REPLACEABLE FILTER DRIER CORE

Dry All Universal Replaceable Filter Drier Solid Cores.

With the advent of new HFC refrigerant and Polyolester lubricants, we must evaluate the way in which we protect our systems. The synthetic oil are highly hygroscopic that attract moisture several times more than mineral oils. This increases the amount of moisture in a system which if left untreated will form organic and inorganic acids and finally lead to the formation of copper chloride. These contaminants are very harmful and they attack the system and their components effecting their performance.

The Replaceable Series molded core is composite of carefully selected desiccant materials, artfully blended with a low content binder providing very high mechanical strength, outstanding filtering capability, high moisture adsorption and acid removal.

DESIGN FEATURES :

1) Solid Rugged Construction Core with right grade & percentage of moleculer sieves for maximum contaminant removal characteristics and micronic filtration.
2) High degree of activation in core gives it maximum water retention capacity, excellent acid removal characteristics and the ability to remove the products of oil decomposition.
3) Optimized, uniform grain size and large surface and filtering area of the porous core in which refrigerant can travel around, gives triple filtration and laminar flow catches a large amount of dirt with negligible pressure drop.
4) The molded core has a uniform porosity through out the entire length and surface of the core which removes large amount of water in one pass.
5) Replaceable Solid Core has ability to withstand pressure surge, and hence vibration and attrition is not a concern.
6) Formulated to use with the new refrigerant R-134a, R-404a, 407a, R-410a, R-507, R-22 etc. blends and synthetic polyester oil and lubricants which go with it.
7) Replaceable Solid Core provides superior suction line compressor protection.
8) Replaceable Solid Core are individually packed in metal cans, fully activated and hermetically sealed against moisture and dirt to preserve freshness.
9) Each packed can contains a triple gasket. Physical dimension and gasket sets are of size that permit interchangeability with competitive products and is with the better flow capacity.



DC - 48 :

High Moisture capacity replaceable Filter Drier Solid Core block for HCFCs, HFC, CFC Refrigerants, Mineral oil & New Polyester oil.



DB- 48 :

Burn out cleanup Filter Drier Solid Core suitable for HCFC, HFC and CFC Refrigerant, Mineral oil and New Polyester oil. Specially used for clean up of systems that have had a major hermetic burn out.



DA - 48 :

Standard Replaceable Filter Drier Solid Core block Suitable for HCFC, HFC and CFC Refrigerants, Mineral oil & Alky benzene oil. This is the standard core suitable for most installation in the Liquid and Suction Line.