

**Dry All**

Full Range of HVAC&R Line Products



**REPLACEABLE CORE SHELL**

## Introduction

The DRC series of Dry All replaceable solid core filter driers are used in both liquid and suction lines in HVAC&R systems. The replaceable core filter driers feature a replaceable solid core capable of meeting specific application needs. The filter drier shell houses the solid core, allows easy removal and replacement of solid core. The customer can thus choose the type of solid core on moisture and acid removal capacity & application.

## Features

### Replaceable core shell:

- The steel made shell compatible with all refrigerants (HFC, HFO, CFC and HCFC).
- Oven-baked, corrosion-resistant, epoxy powdered coated has salt spray life greater than 500hrs.
- Electroplated flange for corrosion resistance.
- Solder connections

### Solid Core:

#### DA48:

- Composed of 80% Molecular Sieve and 20% Activated Alumina.
- It provides a good desiccation ability and an acid absorption capability in a wide temperature range.

#### DC48:

- Composed of 100% molecular sieve.
- It provides the best moisture removal ability among all type of core in a wide temperature range.

#### DB48:

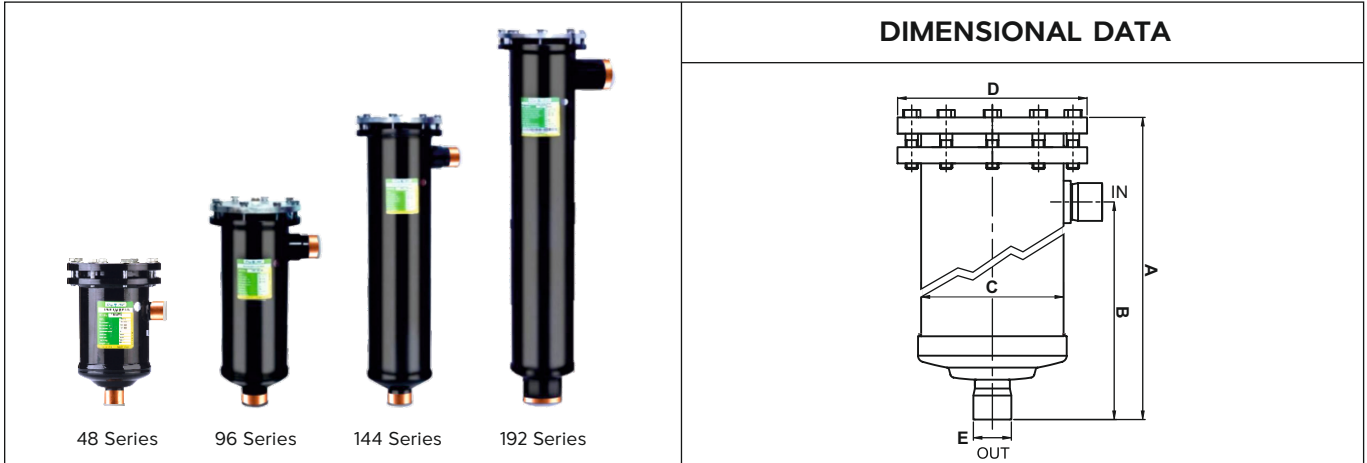
- Composed of 48% molecular sieve, 47% Activated Alumina, 5% Activated Carbon.
- It is suitable during compressor burnout, it removes acid, impurities and other harmful elements.

### General Specification:

- Highly efficient in moisture absorption, filtering impurity, acid, removal.
- Different types of filter cores.
- Highly durable.
- Filtering fineness: 20µm.
- 1/4" NPT Connection is Available in Dry All Core Shell
- Applicable for all common HCFC and HFC, HFO.
- Temperature range: -40°C to +70°C.
- Maximum working pressure: 45 bar.

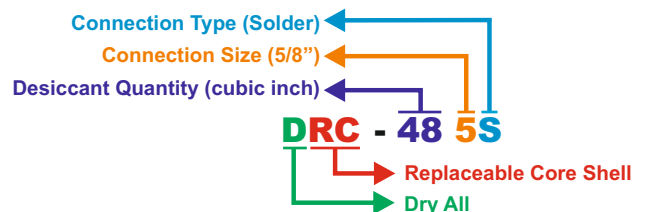
# REPLACEABLE CORE SHELL

## IMAGE, DRAWING & MODELS AVAILABLE



Sr. No.	Model No.	Connection Type	A		B		ØC		D		Qty for Cores	Liquid Flow Capacity for R-22 in Tons @1 psi
			(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)		
1	DRC-485S	5/8"	235	9.25	158	6.22	114	4.49	152	5.98	1	21
2	DRC-487S	7/8"	240	9.45	163	6.42	114	4.49	152	5.98	1	38
3	DRC-489S	1-1/8"	242	9.53	165	6.50	114	4.49	152	5.98	1	53
4	DRC-4811S	1-3/8"	242	9.53	165	6.50	114	4.49	152	5.98	1	61
5	DRC-4813S	1-5/8"	242	9.53	165	6.50	114	4.49	152	5.98	1	85
6	DRC-4817S	2-1/8"	250	9.84	163	6.42	114	4.49	152	5.98	1	120
7	DRC-4821S	2-5/8"	245	9.65	152	5.98	114	4.49	153	6.02	1	124
8	DRC-4825S	3-1/8"	244	9.60	144	5.66	114	4.49	153	6.02	1	128
9	DRC-965S	5/8"	385	15.16	303	11.93	114	4.49	152	5.98	2	22
10	DRC-967S	7/8"	387	15.24	308	12.13	114	4.49	152	5.98	2	41
11	DRC-969S	1-1/8"	387	15.24	310	12.20	114	4.49	152	5.98	2	63
12	DRC-9611S	1-3/8"	387	15.24	310	12.20	114	4.49	152	5.98	2	79
13	DRC-9613S	1-5/8"	387	15.24	310	12.20	114	4.49	152	5.98	2	85
14	DRC-9617S	2-1/8"	395	15.55	308	12.13	114	4.49	152	5.98	2	120
15	DRC-9621S*	2-5/8"*	406.5	16.00	303.5	11.95	114	4.49	152	5.98	2	97
16	DRC-9624S	3"	403	15.87	300	11.81	114	4.49	152	5.98	2	68
17	DRC-9625S	3-1/8"	388	15.27	289	11.37	114	4.49	153	6.02	2	112
18	DRC-1449S	1-1/8"	529	20.83	452	17.80	114	4.49	152	5.98	3	51
19	DRC-14411S	1-3/8"	529	20.83	452	17.80	114	4.49	152	5.98	3	88
20	DRC-14413S	1-5/8"	529	20.83	452	17.80	114	4.49	152	5.98	3	97
21	DRC-14417S	2-1/8"	537	21.14	450	17.72	114	4.49	152	5.98	3	112
22	DRC-19211S	1-3/8"	679	26.73	602	23.70	114	4.49	152	5.98	4	94
23	DRC-19213S	1-5/8"	679	26.73	602	23.70	114	4.49	152	5.98	4	103
24	DRC-19217S	2-1/8"	687	27.05	600	23.62	114	4.49	152	5.98	4	115
25	DRC-19221S*	2-5/8"*	692.5	27.26	589.5	23.21	114	4.49	152	5.98	4	112
26	DRC-19224S*	3"	689	27.13	586	23.07	114	4.49	152	5.98	4	117
27	DRC-30017S*	2-1/8"*	659	25.94	500	19.69	152	5.98	196	7.72	3	95
28	DRC-30021S*	2-5/8"*	657	25.87	502	19.76	152	5.98	196	7.72	3	100

- 1) Maximum Working Pressure - 45 bar ( 653 psig)
- 2) Temperature Range : -40°C to +70°C
- 3)\*Mark Connection Steel & Nickel Plated
- 4)1/4" NPT Connection is Available in Dry All Core Shell
- 5)[\*] Denotes connections are of steel



## Dimensional Data

Sr. No	Model	Number of cores	Connection	Dimensions				Maximum working Pressure (Bar)
				A	B	C	D	
			(inch)	(mm)	(mm)	(mm)	(mm)	
1	DRC-485S	1	5/8 ODF	235	158	114	152	45
2	DRC-487S	1	7/8 ODF	240	163	114	152	45
3	DRC-489S	1	1 1/8 ODF	242	165	114	152	45
4	DRC-4811S	1	1-3/8 ODF	242	165	114	152	45
5	DRC-4813S	1	1-5/8 ODF	242	165	114	152	45
6	DRC-4817S	1	2-1/8 ODF	250	163	114	152	45
7	DRC-965S	2	5/8 ODF	385	303	114	152	45
8	DRC-967S	2	7/8 ODF	387	308	114	152	45
9	DRC-969S	2	1-1/8 ODF	387	310	114	152	45
10	DRC-9611S	2	1-3/8 ODF	387	310	114	152	45
11	DRC-9613S	2	1-5/8 ODF	387	310	114	152	45
12	DRC-9617S	2	2-1/8 ODF	395	308	114	152	45
13	DRC-9621S*	2	2-5/8 ODF	406.5	303.5	114	152	45
14	DRC-9624S	2	3 ODF	403	300	114	152	45
15	DRC-1449S	3	1-1/8 ODF	529	452	114	152	45
16	DRC-14411S	3	1-3/8 ODF	529	452	114	152	45
17	DRC-14413S	3	1-5/8 ODF	529	452	114	152	45
18	DRC-14417S	3	2-1/8 ODF	537	450	114	152	45
19	DRC-19211S	4	1-3/8 ODF	679	602	114	152	45
20	DRC-19213S	4	1-5/8 ODF	679	602	114	152	45
21	DRC-19217S	4	2-1/8 ODF	687	600	114	152	45
22	DRC-19221S	4	2-5/8 ODF	692.5	589.5	114	152	45
23	DRC-19224S*	4	3 ODF	689	586	114	152	45
24	DRC-30017S	3	100 ODF	2 1/8	659	500	152	196
25	DRC-30021S	3	100 ODF	2 5/8	657	500	152	196

[\*] Denotes connections are of steel

**Drying Capacity**

**DA-48**

Sr. No	Model	Number of Cores	Drying capacity kg of refrigerant					
			R134a		R404A/ R507A		R407C/ R410A	
			24°C	52°C	24°C	52°C	24°C	52°C
1	DRC-485S	1	76	72	72	66	75	64
2	DRC-487S	1						
3	DRC-489S	1						
4	DRC-4811S	1						
5	DRC-4813S	1						
6	DRC-4817S	1						
7	DRC-965S	2	152	144	143	133	151	128
8	DRC-967S	2						
9	DRC-969S	2						
10	DRC-9611S	2						
11	DRC-9613S	2						
12	DRC-9617S	2						
13	DRC-9621S*	2						
14	DRC-9624S	2						
15	DRC-1449S	3	228	217	215	199	226	192
16	DRC-14411S	3						
17	DRC-14413S	3						
18	DRC-14417S	3						
19	DRC-19211S	4	304	289	287	265	301	256
20	DRC-19213S	4						
21	DRC-19217S	4						
22	DRC-19221S	4						
23	DRC-19224S*	4						

The drying capacity is based on moisture presence in accordance with ARI-710 standard

Initial ppm: R134a, R410A is 1050 ppm

Initial ppm: R404A, R507A, R407C: 1020 ppm.

Final ppm: R-134a/R-407C/R-410A/R-404A/R-507A is 50 ppm.

[\*] Denotes connections are of Steel

**Drying Capacity**

**DC-48**

Sr. No	Model	Number of Cores	Drying capacity kg of refrigerant (ppm)					
			R134a		R404A/ R507A		R407C/ R410A	
			24°C	52°C	24°C	52°C	24°C	52°C
1	DRC-485S	1	89	85	84	78	88	75
2	DRC-487S	1						
3	DROC-489S	1						
4	DRC-4811S	1						
5	DRC-4813S	1						
6	DRC-4817S	1						
7	DRC-965S	2	178	170	168	156	176	150
8	DRC-967S	2						
9	DRC-969S	2						
10	DRC-9611S	2						
11	DRC-9613S	2						
12	DRC-9617S	2						
13	DRC-9621S*	2						
14	DRC-9624S	2						
15	DRC-1449S	3	267	255	252	234	264	225
16	DRC-14411S	3						
17	DRC-14413S	3						
18	DRC-14417S	3						
19	DRC-19211S	4	356	338	336	312	352	300
20	DRC-19213S	4						
21	DRC-19217S	4						
22	DRC-19221S	4						
23	DRC-19224S*	4						

The drying capacity is based on moisture presence in accordance with ARI-710 standard

Initial ppm: R134a, R410A is 1050 ppm

Initial ppm: R404A, R507A, R407C: 1020 ppm.

Final ppm: R-134a/R-407C/R-410A/R-404A/R-507A is 50 ppm.

**Note:** The mentioned capacity is based on the standard conditions. The variation in drying capacity depends on impurities present in the systems.

**Drying Capacity**

**DB 48**

Sr. No	Model	Number of Cores	Drying capacity kg of refrigerant					
			R134a		R404A/ R507A		R407C/ R410A	
			24°C	52°C	24°C	52°C	24°C	52°C
1	DRC-485S	1	46	44	34	40	46	39
2	DRC-487S	1						
3	DRC-489S	1						
4	DRC-4811S	1						
5	DRC-4813S	1						
6	DRC-4817S	1						
7	DRC-965S	2	92	88	68	80	92	78
8	DRC-967S	2						
9	DRC-969S	2						
10	DRC-9611S	2						
11	DRC-9613S	2						
12	DRC-9617S	2						
13	DRC-9621S*	2						
14	DRC-9624S	2						
15	DRC-1449S	3	138	132	102	120	138	117
16	DRC-14411S	3						
17	DRC-14413S	3						
18	DRC-14417S	3						
19	DRC-19211S	4	184	176	136	160	184	156
20	DRC-19213S	4						
21	DRC-19217S	4						
22	DRC-19221S	4						
23	DRC-19224S*	4						

The drying capacity is based on moisture presence in accordance with ARI-710 standard

Initial ppm: R134a, R410A is 1050 ppm

Initial ppm: R404A, R507A, R407C: 1020 ppm.

Final ppm: R-134a/R-407C/R-410A/R-404A/R-507A is 50 ppm.

[\*] Denotes connections are of Steel

**Note:** The mentioned capacity is based on the standard conditions. The variation in drying capacity depends on impurities present in the systems.

**Check Hologram for  
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Manufactured by:

**Dry & All**

Full Range of HVAC&R Line Products

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