Filter Driers



Description

Ranco® Filter Driers are designed to stop contaminants and remove moisture from refrigerants to protect those sensitive system parts. Available in both single direction and bi-flow models, Ranco Filter Driers are compatible with R-12, R-134A, R-22, R-290, R-404A, R-407C, R-410A, R-500, R-502, and R-507 refrigerants, and rated for 1-50 Tons. A filter pad removes particles down to an industry leading 20µm, and top quality desiccant, available in a solid core configuration, induces and sustains a state of dryness. Optional activated alumina added to the desiccant also helps remove inorganic acids present in refrigerant.

To provide superior protection and excellent filtration in a leak-free steel body assembly, Ranco Filter Driers go through thorough design, production, testing, and quality processes. Ranco team of engineers from around the globe set out to design the most durable and efficient filter driers that will keep systems running safely for years to come. Our ISO 9001:2015 certified manufacturing facilities then exercise the highest level of craftsmanship in manufacturing, ensuring that every part exceeds your expectations.

Features and Benefits

- Premium filter materials allow for 40% more filtration, ensuring greater reliability
- Top-quality desiccant for excellent absorption and long-lasting durability
- Solder or mechanical fittings facilitate ease of installation
- Mesh/fiberglass filter pad designed to prevent contaminants passing into or being released back into the system, ensuring superior protection. Removes particles down to 20µm
- Leak free welds

Applications

- Commercial HVAC/R
- Heat pump systems
- Permanent liquid line
- Removable suction line
- Designed for use with A2L refrigerants

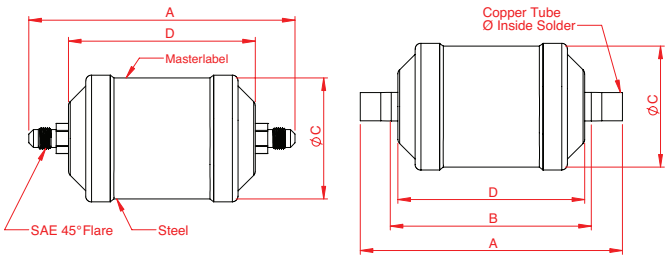
1 Year Limited Warranty

ISO 9001

Customer Service
+1 800 304 6563
HVACCustomerService
@robertshaw.com

www.robertshaw.com
©2025 Robertshaw
11/26 150-2772 Rev E

Specifications



Capacity Range	3 – 41 cubic inches
Operating Pressure	0 to 680 PSI (0 to 47 bar/4.7 MPa)
Temperature Range	-40°F to 176°F (-40°C to 80°C)
Compatible Fluids	R-12, R-134A, R-22, R-290, R-404A, R-407C, R-410A, R-500, R-502, R-507
Connection Size Range	1/4”, 3/8”, 1/2”, 5/8”, 7/8”, 1-1/8”
Desiccant Type	Solid core (80% desiccant, 20% activated alumina)

Replacement Information

Part Numbers	Flow	Capacity (Cubic Inches)	Fitting Type	Fitting Size	Replaces			
					Parker Hannifin	Danfoss	Sanhua	Emerson
RBFD-052	Bi	5	SAE	1/4"			STGL-052 T	BFK 052
RBFD-052S	Bi	5	ODF	1/4"	BF-052S		STG-052 T	BFK 052S
RBFD-053	Bi	5	SAE	3/8"			STGL-053 T	BFK 053
RBFD-053S	Bi	5	ODF	3/8"	BF-053S	DMB 053S	STG-053 T	BFK 053S
RBFD-083	Bi	8	SAE	3/8"	BF-083	DMB 083	STGL-083 T	BFK 083
RBFD-083S	Bi	8	ODF	3/8"	BF-083S	DMB 083S	STG-083 T	BFK 083S
RBFD-084	Bi	8	SAE	1/2"	BF-084	DMB 084	STGL-084 T	BFK 084
RBFD-084S	Bi	8	ODF	1/2"	BF-084S	DMB 084S	STG-084 T	BFK 084S
RBFD-163	Bi	16	SAE	3/8"	BF-163	DMB 163	STGL-163 T	BFK 163
RBFD-163S	Bi	16	ODF	3/8"	BF-163S	DMB 163S	STG-163 T	BFK 163S
RBFD-164	Bi	16	SAE	1/2"	BF-164	DMB 164	STGL-164 T	BFK 164
RBFD-164S	Bi	16	ODF	1/2"	BF-164S	DMB 164S	STG-164 T	BFK 164S
RBFD-165	Bi	16	SAE	5/8"		DMB 165	STGL-165 T	BFK 165
RBFD-165S	Bi	16	ODF	5/8"	BF-165S	DMB 165S	STG-165 T	BFK 165S
RBFD-167S	Bi	16	ODF	7/8"		DMB 167S	STG-167 T	BFK 167S
RBFD-303S	Bi	30	ODF	3/8"		DMB 303S	STG-303 T	BFK 303S
RBFD-304	Bi	30	SAE	1/2"		DMB 304	STGL-304 T	BFK 304
RBFD-304S	Bi	30	ODF	1/2"	BF-304S	DMB 304S	STG-304 T	BFK 304S
RBFD-305	Bi	30	SAE	5/8"		DMB 305	STGL-305 T	BFK 305
RBFD-305S	Bi	30	ODF	5/8"	BF-305S	DMB 305S	STG-305 T	BFK 305S
RBFD-306S	Bi	30	ODF	3/4"			STG-306 T	BFK 306S
RBFD-307S	Bi	30	ODF	7/8"		DMB 307S	STG-307 T	BFK 307S
RBFD-309S	Bi	30	ODF	1-1/8"		DMB 309S	STG-309 T	BFK 309S
RFD-032	Mono	3	SAE	1/4"	LLD-032	DCL 032	DTGL-032 KTA	EK 032
RFD-032S	Mono	3	ODF	1/4"	LLD-032S	DCL 032S	DTG-032 KTA	EK 032S
RFD-033	Mono	3	SAE	3/8"		DCL 033	DTGL-033 KTA	EK 033
RFD-033S	Mono	3	ODF	3/8"		DCL 033S	DTG-033 KTA	EK 033S
RFD-052	Mono	5	SAE	1/4"	LLD-052	DCL 052	DTGL-052 KTA	EK 052
RFD-052S	Mono	5	ODF	1/4"	LLD-052S	DCL 052S	DTG-052 KTA	EK 052S
RFD-053	Mono	5	SAE	3/8"	LLD-053	DCL 053	DTGL-053 KTA	EK 053

Replacement Information Continued

Part Numbers	Flow	Capacity (Cubic Inches)	Fitting Type	Fitting Size	Replaces			
					Parker Hannifin	Danfoss	Sanhua	Emerson
RFD-053S	Mono	5	ODF	3/8"	LLD-053S	DCL 053S	DTG-053 KTA	EK 053S
RFD-082	Mono	8	SAE	1/4"	LLD-082	DCL 082	DTGL-082 KTA	EK 082
RFD-082S	Mono	8	ODF	1/4"	LLD-082S	DCL 082S	DTG-082 KTA	EK 082S
RFD-083	Mono	8	SAE	3/8"	LLD-083	DCL 083	DTGL-083 KTA	EK 083
RFD-083S	Mono	8	ODF	3/8"	LLD-083S	DCL 083S	DTG-083 KTA	EK 083S
RFD-084	Mono	8	SAE	1/2"	LLD-084	DCL 084	DTGL-084 KTA	EK 084
RFD-084S	Mono	8	ODF	1/2"	LLD-084S	DCL 084S	DTG-084 KTA	EK 084S
RFD-162	Mono	16	SAE	1/4"	LLD-162	DCL 162	DTGL-162 KTA	EK 162
RFD-162S	Mono	16	ODF	1/4"	LLD-162S	DCL 162S	DTG-162 KTA	EK 162S
RFD-163	Mono	16	SAE	3/8"	LLD-163	DCL 163	DTGL-163 KTA	EK 163
RFD-163S	Mono	16	ODF	3/8"	LLD-163S	DCL 163S	DTG-163 KTA	EK 163S
RFD-164	Mono	16	SAE	1/2"	LLD-164	DCL 164	DTGL-164 KTA	EK 164
RFD-164S	Mono	16	ODF	1/2"	LLD-164S	DCL 164S	DTG-164 KTA	EK 164S
RFD-165	Mono	16	SAE	5/8"	LLD-165	DCL 165	DTGL-165 KTA	EK165
RFD-165S	Mono	16	ODF	5/8"	LLD-165S	DCL 165S	DTG-165 KTA	EK 165S
RFD-167S	Mono	16	ODF	7/8"		DCL 167S	DTG-167 KTA	EK 167S
RFD-303	Mono	30	SAE	3/8"	LLD-303	DCL 303	DTGL-303 KTA	EK 303
RFD-303S	Mono	30	ODF	3/8"	LLD-303S	DCL 303S	DTG-303 KTA	EK 303S
RFD-304	Mono	30	SAE	1/2"	LLD-304	DCL 304	DTGL-304 KTA	EK 304
RFD-304S	Mono	30	ODF	1/2"	LLD-304S	DCL 304S	DTG-304 KTA	EK 304S
RFD-305	Mono	30	SAE	5/8"	LLD-305	DCL 305	DTGL-305 KTA	EK 305
RFD-305S	Mono	30	ODF	5/8"	LLD-305S	DCL 305S	DTG-305 KTA	EK 305S
RFD-306S	Mono	30	ODF	3/4"		DCL 306S	DTG-306 KTA	EK 306S
RFD-307S	Mono	30	ODF	7/8"	LLD-307S	DCL 307S	DTG-307 KTA	EK 307S
RFD-309S	Mono	30	ODF	1-1/8"		DCL 309S	DTG-309 KTA	EK 309S
RFD-413	Mono	41	SAE	3/8"	LLD-413			EK 413
RFD-414	Mono	41	SAE	1/2"	LLD-414	DCL 414	DTGL-414 KTA	EK 414
RFD-414S	Mono	41	ODF	1/2"	LLD-414S	DCL 414S	DTG-414 KTA	EK 414S
RFD-415	Mono	41	SAE	5/8"	LLD-415	DCL 415	DTGL-415 KTA	EK 415
RFD-415S	Mono	41	ODF	5/8"	LLD-415S	DCL 415S	DTG-415 KTA	EK 415S
RFD-417S	Mono	41	ODF	7/8"	LLD-417S	DCL 417S	DTG-417 KTA	EK 417S
RFD-419S	Mono	41	ODF	1-1/8"		DCL 419S	DTG-419 KTA	EK 419S