

OIL SEPARATORS

FOR INCREASED EFFICIENCY AND . . . ENERGY SAVINGS

REFRIGERATION RESEARCH INC. offers oil separators for either single or multiple (parallel) compressor systems. All of these separators are hydrogen copper brazed and pressure tested to assure cleanliness and reliability.

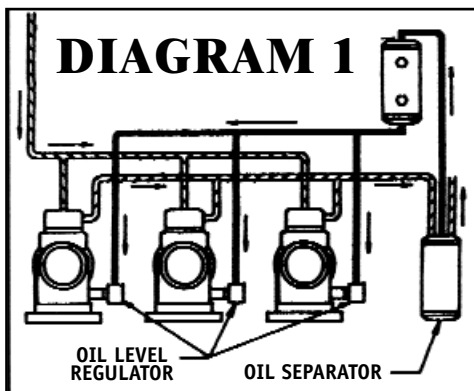
MECHANICAL FLOAT

The oil separators listed below contain an internal mechanical float to provide the return of oil to the crankcase of the compressor or the oil reservoir.

PART NUMBER	DIMENSIONS		LINE SIZE		CAPACITY IN TONS OF REFRIGERATION					
			DISCHARGE LINES	OIL RETURN LINE	R-12, R-134A		R-22, R-407C, R-502		R-404A, R-507	
	D	L			EVAPORATOR TEMP.		EVAPORATOR TEMP.		EVAPORATOR TEMP.	
			-40°F	+40°F	-40°F	+40°F	-40°F	+40°F		
8399	4	7 3/4	3/8	3/8	.8	1	1	1.5	1	1.5
8408	4	9 3/4	1/2	3/8	1	1.5	1.5	2.0	1.5	2.0
8409	4	14	5/8	3/8	3	4	4.5	5.5	4	5.5
8410	4	17	3/4	3/8	4	5	5.5	6.5	5.5	7
8411	6	12	7/8	3/8	4.5	5.5	7	8	6.5	8.5
8412	6	13 1/2	1 1/8	3/8	6	7.5	9	10.5	8.5	11
8413	6	15 1/2	1 3/8	3/8	8	10	12	14	12	15
8414	6	18	1 5/8	3/8	11	14	16	18	15	19
8415	6	19	2 1/8	3/8	18	21	25	30	24	31



Mount all oil separators vertically. The smallest connection on the top, the 3/8" flare, returns the oil to the compressor or to the top of the oil reservoir as shown in diagram 1. Connect the discharge line from the compressor to the nipple labelled "IN". The other nipple connects to the condenser.



Multiple (parallel) systems require oil level regulators attached to the crankcase of each individual compressor. Also, a pressure differential valve in a separate line from the oil reservoir to the common suction line regulates the pressure in the oil reservoir to prevent excessive pressure in the oil reservoir while still maintaining a positive pressure above the crankcase pressure. Add 20 ounces of oil to model #'s 8399, 8408, 8409, and 8410. Add 50 ounces of oil to model

#'s 8411-8415 to compensate for the oil withheld from the compressor by the oil separator.

OIL LINE STRAINERS

The Oil Line Strainer prevents dirt and contaminants from entering the oil level regulator and the crankcase of the compressor.

Part No.	Inlet	Outlet	Sq. In. Screen Area	Screen Material	Overall Length
8671	3/8 Male Flare	3/8 Male Flare	11	100 Mesh Monel	4 7/8"

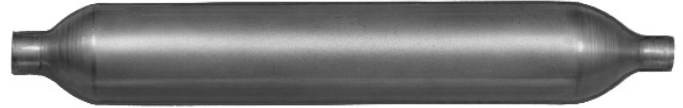


“THE INDUSTRY’S MOST COMPLETE LINE OF QUALITY STRAINERS”

A wide selection of highest quality strainers is available for all applications. All joints are hard soldered or copper hydrogen brazed. Each strainer is individually tested under high pressure. Type FG and FH strainers contain 150 mesh monel screen. All other strainers contain screen of 100 mesh monel or stainless steel. All strainers below have cylindrical screens and copper shells except FA, FC, and FD which have steel shells. All U.L. recognized, U.L. listed upon request.



TYPE FC, FD, FE



TYPE FF, FJ, 2804, 554



TYPE FG



TYPE FA



TYPE FH

TYPE NUMBER	SQ. IN. SCREEN AREA	INLET	OUTLET	SHELL O.D.	OVERALL LENGTH	WEIGHT LBS.
FE 14	9	1/4 Flare	1/4 Flare	1-1/4	6-3/8	.4
FE 16	9	3/8 Flare	3/8 Flare	1-1/4	6-3/8	.4
FE 24	12	1/4 Flare	1/4 Flare	1-1/4	7	.5
FE 26	12	3/8 Flare	3/8 Flare	1-1/4	7-1/4	.5
FF 14	6	1/4 Sweat	1/4 Sweat	1-1/4	4-5/8	.3
FF 16	6	3/8 Sweat	3/8 Sweat	1-1/4	4-5/8	.3
FF 24	9	1/4 Sweat	1/4 Sweat	1-1/4	5-5/8	.4
FF 26	9	3/8 Sweat	3/8 Sweat	1-1/4	5-5/8	.4
FG 4	3.5	1/4 Flare	1/4 Flare	3/4	6	.2
FG 6	3.5	3/8 Flare	3/8 Flare	3/4	6-1/4	.3
FH 4	3.5	1/4 Fem. Flare	1/4 Flare	3/4	6	.2
FH 6	3.5	3/8 Fem. Flare	3/8 Flare	3/4	5-3/4	.3
FJ 14	5.8	1/4 Sweat	1/4 Sweat	3/4	5-3/4	.2
FJ 16	5.8	3/8 Sweat	3/8 Sweat	3/4	5-3/4	.2
FJ 18	5.8	1/2 Sweat	1/2 Sweat	3/4	5-3/4	.2
FJ 20	5.8	5/8 Sweat	5/8 Sweat	3/4	5-3/4	.2
FA 4	3.0	1/4 Flare	1/4 Flare	2	3-1/2	.5
FA 6	3.0	3/8 Flare	3/8 Flare	2	3-3/4	.5
FA 8	3.0	1/2 Flare	1/2 Flare	2	4	.6
FC 4	12	1/4 Flare	1/4 Flare	2	5-1/2	.8
FC 6	12	3/8 Flare	3/8 Flare	2	5-3/4	1.0
FC 8	12	1/2 Flare	1/2 Flare	2	6	1.2
FD 4	30	1/4 Flare	1/4 Flare	2	9-1/2	1.3
FD 6	30	3/8 Flare	3/8 Flare	2	9-3/4	1.4
FD 8	30	1/2 Flare	1/2 Flare	2	10	1.5
FD 10	30	5/8 Flare	5/8 Flare	2	10-1/2	1.7
2804-1	24	7/8 Sweat	7/8 Sweat	2	8-3/8	.6
2804-2	24	1-1/8 Sweat	1-1/8 Sweat	2	8-3/8	.6
2804	24	1-3/8 Sweat	1-3/8 Sweat	2	8-3/8	.6
554-3	30	7/8 Sweat	7/8 Sweat	3	9-1/4	1.7
554-2	30	1-1/8 Sweat	1-1/8 Sweat	3	9-1/4	1.7
554-1	30	1-1/4 Sweat	1-1/4 Sweat	3	9-1/4	1.7
554	30	2-1/8 Sweat	2-1/8 Sweat	3	9-1/4	1.7

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