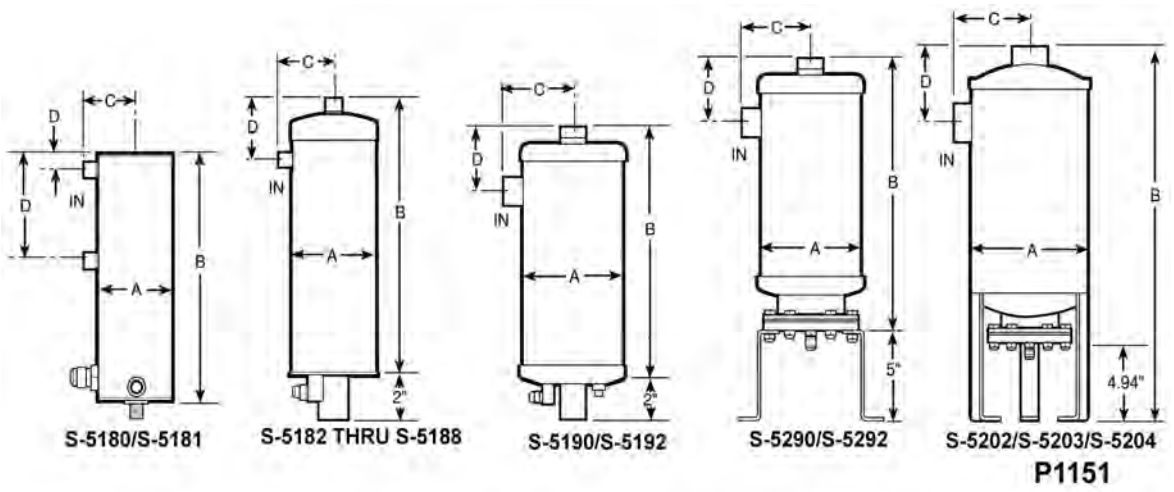
HENRY TECHNOLOGIES - HELICAL OIL SEPARATORS



The helical oil separator features a centrifugal flow path achieving approximately 99% efficiency of oil separation with low pressure drop.

PART NO	SIZE CONN	DIMENSIONS (in.)				MAX. CAPACITY IN TONS OF REFRIGERATION AT EVAPORATOR TEMPERATURE						NOMINAL DISCHARGE CFM	PRE-CHARGED AMOUNT (oz)
						R-134a		R-22		R-404A/R-507			
		A	B	C	D	-40°F	+40°F	-40°F	+40°F	-40°F	+40°F		
S-5180	1/4 ODS	2.50	6.38	1.75	.44	.50	.75	.75	1.00	.75	1.00	.75	14
S-5181	3/8 ODS	2.50	7.50	1.75	.50	.75	1.00	1.00	1.50	1.00	1.50	1.00	14
S-5182	1/2 ODS	4	13	2.75	2.44	1.00	1.50	1.50	2.00	1.50	2.00	1.50	14
S-5185	5/8 ODS	4	15	2.75	2.50	3.00	4.00	4.50	5.50	4.00	5.50	4.00	14
S-5187	7/8 ODS	4	17	3	2.94	4.50	5.50	7.00	8.00	6.50	8.50	6.00	14
S-5188	1-1/8 ODS	4	19	3	3.06	6.00	7.50	9.00	10.50	8.50	11.00	8.00	14
S-5190	1-3/8 ODS	6	15	4.25	3.69	8.00	10.00	13.00	14.00	12.00	15.00	11.00	40
S-5192	1-5/8 ODS	6	17	4.25	3.95	11.00	13.00	16.00	18.00	15.00	19.00	14.00	40
S-5194	2-1/8 ODS	6	17	4.38	4.19	18.00	21.00	25.00	30.00	24.00	31.00	22.00	40
S-5290	1-3/8 ODS	6	15	4.25	3.69	8.00	10.00	13.00	14.00	12.00	15.00	11.00	25
S-5292	1-5/8 ODS	6	17	4.25	3.95	11.00	13.00	16.00	18.00	15.00	19.00	14.00	25
S-5294	2-1/8 ODS	6	17	4.38	4.19	18.00	21.00	25.00	30.00	24.00	31.00	22.00	25
S-5202	2-1/8 ODS	8	24	5.38	5.06	22.00	27.00	35.00	39.00	31.00	41.00	29.00	25
S-5203	2-5/8 ODS	10	27	6.50	5.63	46.00	56.00	71.00	80.00	64.00	83.00	60.00	25
S-5204	3-1/8 ODS	12	30	7.75	6.45	72.00	88.00	112.00	127.00	100.00	131.00	94.00	25

S-5100's - Connections are nickel plated steel.
S-5200's - Connections are copper plated steel.
All the capacities shown are based on 100° F condensing.
Minimum tonnage is 33% of rated capacity, oversizing is not acceptable.

HENRY TECHNOLOGIES - CONVENTIONAL OIL SEPARATORS

PART NO	SIZE CONN	CAPACITY IN TONS OF REFRIGERATION AT EVAPORATOR TEMPERATURE (nominal)						MAXIMUM DISCHARGE CFM	PRE-CHARGED AMOUNT (oz)
		R-134a		R-22		R-404A/R-507			
		-40°F	+40°F	-40°F	+40°F	-40°F	+40°F		
S-5580	1/4 ODS	.50	.75	.75	1.00	.75	1.00	.75	12
S-5581	3/8 ODS	.75	1.00	1.00	1.50	1.00	1.50	1.00	12
S-5582	1/2 ODS	1.00	1.50	1.50	2.00	1.50	2.00	1.50	12
S-5585	5/8 ODS	3.00	4.00	4.50	5.50	4.00	5.50	4.00	12
S-5587	7/8 ODS	4.50	5.50	7.00	8.00	6.50	8.50	6.00	12
S-5588	1-1/8 ODS	6.00	7.50	9.00	10.50	8.50	11.00	8.00	12
S-5590	1-3/8 ODS	8.00	9.50	11.50	13.50	10.50	14.00	10.00	12
S-5882	1/2 ODS	1.00	1.50	1.50	2.00	1.50	2.00	1.50	12
S-5885	5/8 ODS	3.00	4.00	4.50	5.50	4.00	5.50	4.00	12
S-5887	7/8 ODS	4.50	5.50	7.00	8.00	6.50	8.50	6.00	12
S-5888	1-1/8 ODS	6.00	7.50	9.00	10.50	8.50	11.00	8.00	12
S-5890	1-3/8 ODS	8.00	9.50	11.50	13.50	10.50	14.00	10.00	12
S-5687	7/8 ODS	6	7	9	10	8	10	7.50	30
S-5688	1-1/8 ODS	8	10	11	12	9	13	9.00	30
S-5690	1-3/8 ODS	9	12	13	14	12	15	11.00	30
S-5692	1-5/8 ODS	11	13	16	18	15	19	14.00	30
S-5694	2-1/8 ODS	13	21	25	30	24	31	22.50	30
S-5792	1-5/8 ODS	11	13	16	18	15	19	14.00	20
S-5794	2-1/8 ODS	18	21	25	30	24	31	22.50	20
S-1901	1-5/8 ODS	14	17	20	24	19	25	18.00	20
S-1902	2-1/8 ODS	21	25	30	35	28	37	27.00	20
S-1903	2-5/8 ODS	37	46	50	65	48	68	49.00	20
S-1904	3-1/8 ODS	52	64	75	90	72	94	56.00	20

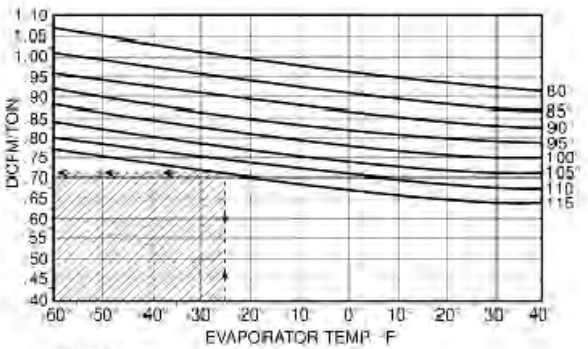
S-5500's, S-5800's, S-5600's, S-5700's - Connections are nickel plated steel.
S-1900's - Connections are copper plated steel.
Oil Flow Rate @ 175 psi differential = 80 gal/min.

All the capacities shown are based on 100°F condensing temperature and on connection size being the same as the compressor discharge valve we recommend for parallel compressor systems application for our S-5700 and S-1900 series oil separators. For low temperature applications, we recommend our S-1900 series oil separators. If operating horsepower is larger than the systems cooling load, size oil separator to the operating horsepower.

HENRY TECHNOLOGIES - CONVENTIONAL OIL SEPARATORS

DISCHARGE CFM CHARTS

DCFM CHART - R-22



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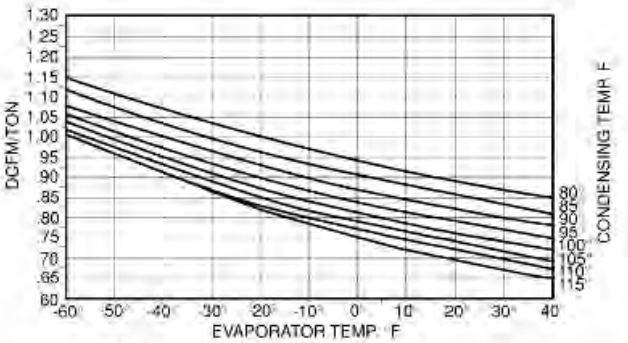
DCFM CHART - R-404a/R/507



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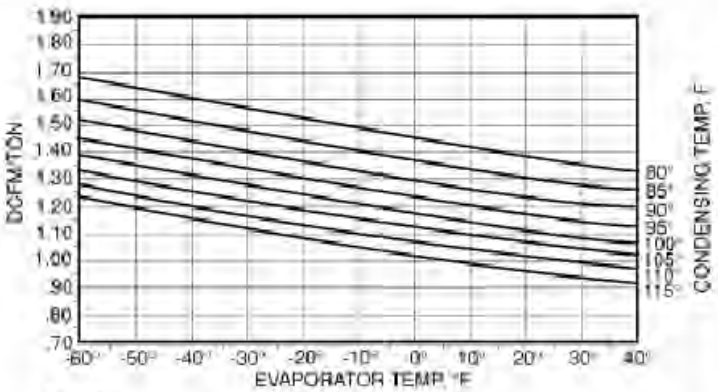
DCFM CHART - R-134a



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HOW TO CALCULATE DISCHARGE CFM (DCFM)

Example: 50 ton R-22 system
-25° F Evaporator Temp.
115° F Condensing Temp.
From the R-22 DCFM Chart, follow the -25° F evaporator temperature line to the intersection of the 115° F condensing temperature line. Extend a line horizontally from this point to the DCFM/ton factor. Multiply the DCFM/ton factor by the total tonnage to calculate the total DCFM.

Example:
.72 DCFM x 50 ton = 36.0 DCF
ton
Oil Separator Selected: **S-5203**