DIL SEPARATOR-RESERVOIRS

The function of a Helical Oil Separator-Reservoir is to remove and store oil from the discharge gas so that it can be returned to the Compressor.

Applications

Helical Oil Separator-Reservoirs can be used in a variety of applications. Common applications include multi-compressor racks. Helical Oil Separator-Reservoirs are intended for High Pressure Oil Management Systems.

These products are designed for use with scroll and reciprocating type compressors. They are not recommended for screw or rotary vane compressors. Henry Technologies' Oil Separators are suitable for use with HCFC and HFC refrigerants, and their associated oils, as well as other industrial fluids non-corrosive to steel, copper and Teflon.

The Helical Separator does not rely on any moving parts for oil separation. As the oil laden hot gas enters the separator it is directed in a spiral motion around a helical flighting. The centrifugal forces act on the gas/oil mixture causing heavier oil particles to spin to the perimeter where they impact an internal screen. The screen layer functions as both an oil stripping and draining medium. Separated oil flows downward along the boundary of the shell through a baffle and into an oil collection chamber. The specially engineered baffle isolates the oil collection chamber and eliminates oil reentrapment by preventing turbulence. The virtually oil free refrigerant gas then exits through a screen fitting just below the lower edge of the helical flighting. Oil Separator-Reservoirs do not have an oil float assembly. Instead, a dip tube is located in the oil chamber that feeds oil to the compressor a dip tube is located in the oil chamber that feeds oil to the compressor through a High Pressure Oil Management System.

Main Features

- •*Patented Henry Technologies Design
- •ODS refrigerant connections
- •SAE flare Rotalock valve oil connection
- •High oil separation efficiency up to 99%
- ·Low pressure drop
- Integrated oil reservoir

Technical Specifications

Maximum working pressure = 450 PSI (31 Bar) Allowable operating temperature = +15°F to +300°F (-10°C to +149°C)

Oil Separators are UL and C-UL Listed by Underwriters Laboratories, Inc. Henry Technologies' Oil Separators are designed and registered for use in Canada. Please contact Technical Support at 1-800-627-5148 for CRN details and list of approved provinces and territories.

Materials of Construction

The main components; shell, end caps and connections are made from carbon steel.

Installation - Notes

Full instructions are given in the Product Instruction Sheet, included with each Oil Separator-Reservoir.

Selection Guidelines

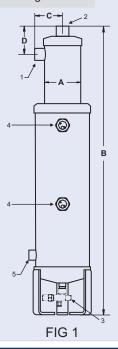
Henry Technologies' Oil Separator-Reservoirs rely on adequate gas velocities to allow for oil extraction from the hot gas so sizing according to the DCFM rating is important. The Oil Separator-Reservoir DCFM Rating table shows the min/max ratings allowed for sufficient separation and low pressure drop. When sized correctly the Oil Separator-Reservoir models will separate up to 99% of the oil from the hot gas. Please contact Technical Support at 1-800-627-5148 for assistance or recommendations when selecting Oil Separators.

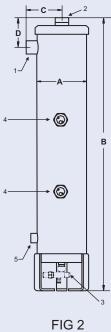


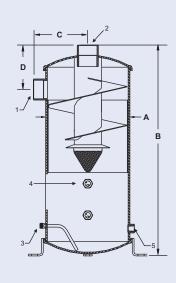




- Inlet ODS
- Outlet ODS
- Oil Return
- Sight Glass
- 0 2 3 4 5 1/2" NPT Fitting







3 2	FIG 3

Part No	Fig No	ODS (inch)		Dimensio	ns (inch)		Pre-charge	Weight (lbs)
Tarrivo	1 19 110	ODO (IIIOII)	Α	В	С	D	Amount (gal*)	vveignt (ibs)
S-5388	1	1 1/8	4.0	32.0	3.00	2.97	2	35.0
S-5390	2	1 3/8	6.0	33.5	4.25	3.69	2	36.0
S-5392	2	1 5/8	6.0	35.5	4.25	3.95	2	37.0
S-5394	2	2 1/8	6.0	35.5	4.38	4.19	2	37.0
S-5302	3	2 1/8	8.0	25.5	5.38	5.07	2	43.0
S-5303	3	2 5/8	10.0	30.0	6.50	5.63	2	64.0
S-5304	3	3 1/8	12.0	30.0	7.75	6.32	2	106.0
*on existing instal	lation pre-charge	with 1 Gallon						

					Oil S	eparator-Res	ervoir DCFN	M Capacity				
Part No	R-5	507	R-4	04A	R	22	R134a		R407A		R407C	
	Min DCFM	Max DCFM	Min DCFM	Max DCFN	Min DCFM	Max DCFM	Min DCFM	Max DCFM	Min DCFM	Max DCFM	Min DCFM	Max DCFM
S-5388	6.8	14.9	6.8	14.9	6.8	18.3	6.9	21.2	6.8	16.3	6.8	17.0
S-5390	12.6	26.4	12.6	26.4	12.7	32.0	12.6	37.2	12.6	28.9	12.7	30.1
S-5392	13.6	34.7	13.6	34.8	13.6	41.9	13.8	48.6	13.5	37.9	13.6	39.3
S-5394	14.6	44.3	14.8	44.4	14.7	53.4	14.9	62.3	14.7	48.4	14.6	50.2
S-5302	26.9	60.3	26.5	60.5	26.7	72.9	26.6	84.8	26.8	66.1	26.8	68.7
S-5303	51.9	88.8	52.0	88.8	52.0	107.0	52.0	124.8	51.8	96.7	52.0	100.7
S-5304	74.7	130.1	74.6	130.3	74.7	157.1	74.7	182.7	74.5	141.8	74.7	147.9

OIL SEPARATORS

Helical

The function of a Helical Oil Separator is to remove oil from the discharge gas and return it to the Compressor either directly or through an Oil Management System.

Applications

Helical Oil Separators are typically used on multi-compressor refrigeration racks or air conditioning units. They are primarily intended for use with scroll and reciprocating type compressors, and not intended to be used with screw or rotary vane compressors. Helical Oil Separators are intended for Low Pressure Oil Management Systems. Helical Oil Separators are suitable for use with HCFC and HFC refrigerants, and their associated oils, as well as other industrial fluids non-corrosive to steel, copper and brass.

Main Features

- *Patented Henry Technologies' Design
- •ODS refrigerant connections
- •SAE flare or ODS oil connection
- •High oil removal efficiency up to 99%
- Low pressure drop
- •No moving parts within oil separation zone
- •Serviceable models available, S-52** series
- •1/8 NPT oil drain
- •Magnet on oil float to collect debris
- •Replacement parts available

Standard 3/8" flare oil return connection; 3/8" ODS oil return connection available by ordering an "X" suffix (i.e. S-5292X).

How it Works

The Helical Separator does not rely on any moving parts for oil separation. As the oil laden hot gas enters the separator it is directed in a spiral motion around a helical flighting. The centrifugal forces act on the gas/oil mixture causing heavier oil particles to spin to the perimeter where they impact an internal screen. The screen layer functions as both an oil stripping and draining medium. Separated oil flows downward along the boundary of the shell through a baffle and into an oil collection chamber. The specially engineered baffle isolates the oil collection chamber and eliminates oil reentrapment by preventing turbulence. The virtually oil free refrigerant gas then exits through a screen fitting just below the lower edge of the helical flighting. Oil flow out of the separator is controlled by an oil float assembly in the bottom of the collection chamber. The oil may be returned directly to the compressor or to an Oil Management System.

Technical Specifications

Maximum working pressure = 450 PSI (31 Bar)
Allowable operating temperature = +15°F to +300°F (-10°C to +149°C)

Henry Technologies' Helical Oil Separators are UL and C-UL Listed by Underwriters Laboratories, Inc. Additionally, Helical Oil Separators are designed and registered for use in Canada. Please contact Technical Support at 1-800-627-5148 for CRN details and list of approved provinces and territories.

Materials of Construction

The main components; shell, end caps and connections are made from carbon steel. The float assemblies are made from stainless steel, brass and copper.

Installation - Notes

Full instructions are given in the Oil Level Control Manual, included with each separator.

Selection Guidelines

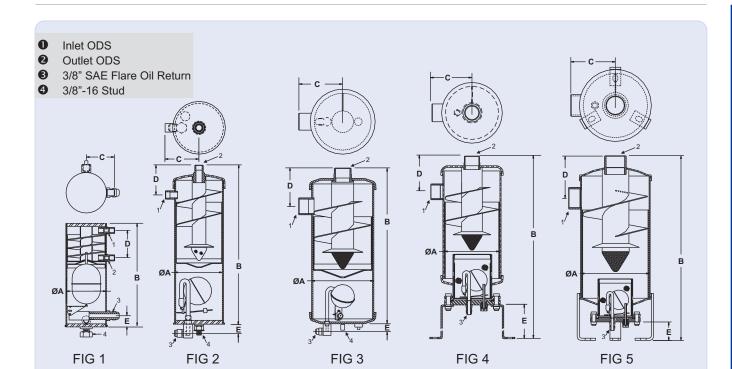
Henry Technologies' Helical Oil Separators rely on adequate gas velocities to allow for oil extraction from the hot gas so sizing according to the DCFM rating is important. The Helical Oil Separator DCFM Rating table shows the min/max ratings allowed for sufficient separation and low pressure drop. When sized correctly the helical models will separate up to 99% of the oil from the hot gas. Please contact Technical Support at 1-800-627-5148 for assistance or recommendations when selecting Oil Separators.











		NO	N-SERVIC	EABLE OI	L SEPARA	TORS			
Dowl No.	ODC (in als)	Fig. No.		Dim	ensions (ir	nch)		Pre-charge	\\\a:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Part No	ODS (inch)	Fig No	ØΑ	В	С	D	Е	Oil (oz)	Weight (lbs)
S-5180	1/4	1	2.5	6.38	1.75	1.69	0.69	14	2.65
S-5181	3/8	1	2.5	7.50	1.75	3.71	0.65	14	3.09
S-5182	1/2	2	4.0	13.00	2.75	2.44	0.75	14	7.50
S-5185	5/8	2	4.0	15.00	2.75	2.50	0.75	14	8.60
S-5187	7/8	2	4.0	17.00	3.00	2.94	0.75	14	10.14
S-5188	1 1/8	2	4.0	19.00	3.00	3.06	0.75	14	10.14
S-5190	1 3/8	3	6.0	15.00	4.25	3.69	0.75	40	19.62
S-5192	1 5/8	3	6.0	17.00	4.25	3.95	0.75	40	20.94
S-5194	2 1/8	3	6.0	17.00	4.38	4.19	0.75	40	21.38

Notes: Standard 3/8" flare oil return connection. 3/8" O.D.S. oil return connection available by ordering an "X" suffix (i.e. S-5292X). See Selection Guidelines for sizing instructions.

	SERVICEABLE OIL SEPARATORS												
Part No	ODC (inch)	Fig No		Dim	ensions (ir	nch)		Pre-charge	\Maight (lba)				
Partino	ODS (inch)	Fig No	ØA	В	С	D	Е	Oil (oz)	Weight (lbs)				
S-5290	1 3/8	4	6.0	20.19	4.25	3.69	4.94	25	25.0				
S-5292	1 5/8	4	6.0	22.00	4.25	3.95	4.94	25	25.0				
S-5294	2 1/8	4	6.0	22.25	4.38	4.19	4.94	25	25.0				
S-5202	2 1/8	5	8.0	24.00	5.38	4.88	4.94	25	39.0				
S-5203	2 5/8	5	10.0	27.29	6.50	5.63	4.94	25	58.0				
S-5204	3 1/8	5	12.0	29.31	7.75	6.45	4.94	25	94.0				

Notes: Standard 3/8" flare oil return connection. 3/8" O.D.S. oil return connection available by ordering an "X" suffix (i.e. S-5292X). See Selection Guidelines for sizing instructions.



S-5180 0.29 0.45 0.29 0.54 0.29 0.63 0.29 0.49 0.29 0.5 S-5181 0.43 1.42 0.44 1.71 0.44 2.00 0.42 1.54 0.42 1.6 S-5182 1.6 3.1 1.6 3.7 1.6 4.3 1.6 3.3 1.6 3.3 S-5185 1.9 4.1 1.9 4.1 1.9 5.0 1.9 5.8 1.9 4.5 1.9 4.5 S-5187 4.8 11.2 4.8 13.5 4.9 15.7 4.8 12.2 4.8 12. S-5188 6.8 14.9 6.8 18.3 6.9 21.2 6.8 16.3 6.8 17. S-5190 12.5 26.4 12.5 26.4 12.5 31.8 12.6 37.1 12.5 28.8 12.5 30. S-5192 13.5 34.6 13.5 34.6 13.6 <						11.1		1 DOEM	0 '1				
Min DCFM Max DCFM Min													
S-5180 0.29 0.45 0.29 0.54 0.29 0.63 0.29 0.49 0.29 0.5 S-5181 0.43 1.42 0.44 1.71 0.44 2.00 0.42 1.54 0.42 1.6 S-5182 1.6 3.1 1.6 3.7 1.6 4.3 1.6 3.3 1.6 3.3 S-5185 1.9 4.1 1.9 4.1 1.9 5.0 1.9 5.8 1.9 4.5 1.9 4.5 S-5187 4.8 11.2 4.8 13.5 4.9 15.7 4.8 12.2 4.8 12. S-5188 6.8 14.9 6.8 18.3 6.9 21.2 6.8 16.3 6.8 17. S-5190 12.5 26.4 12.5 26.4 12.5 31.8 12.6 37.1 12.5 28.8 12.5 30. S-5192 13.5 34.6 13.5 34.6 13.6 <	Part No	R-5	507	R-40	04A	R	R22	R1	34a	R40	07A	R40)7C
S-5181 0.43 1.42 0.44 1.71 0.44 2.00 0.42 1.54 0.42 1.6 S-5182 1.6 3.1 1.6 3.7 1.6 4.3 1.6 3.3 1.6 3.3 S-5185 1.9 4.1 1.9 4.1 1.9 5.0 1.9 5.8 1.9 4.5 1.9 4.5 S-5187 4.8 11.2 4.8 11.2 4.8 13.5 4.9 15.7 4.8 12.2 4.8 12. S-5188 6.8 14.9 6.8 18.3 6.9 21.2 6.8 16.3 6.8 17. S-5190 12.5 26.4 12.5 26.4 12.5 31.8 12.6 37.1 12.5 28.8 12.5 30. S-5192 13.5 34.6 13.5 34.6 13.6 41.8 13.6 48.6 13.5 37.8 13.5 39. S-5194 14.7 <t< td=""><td></td><td>Min DCFM</td><td>Max DCFM</td><td>Min DCFM</td><td>Max DCFM</td><td>Min DCFM</td><td>Max DCFM</td><td>Min DCFM</td><td>Max DCFM</td><td>Min DCFM</td><td>Max DCFM</td><td>Min DCFM</td><td>Max DCFM</td></t<>		Min DCFM	Max DCFM										
S-5182 1.6 3.1 1.6 3.7 1.6 4.3 1.6 3.3 1.6 3.8 S-5185 1.9 4.1 1.9 4.1 1.9 5.0 1.9 5.8 1.9 4.5 1.9 4.5 S-5187 4.8 11.2 4.8 13.5 4.9 15.7 4.8 12.2 4.8 12.2 S-5188 6.8 14.9 6.8 18.3 6.9 21.2 6.8 16.3 6.8 17. S-5190 12.5 26.4 12.5 26.4 12.5 31.8 12.6 37.1 12.5 28.8 12.5 30. S-5192 13.5 34.6 13.5 34.6 13.6 41.8 13.6 48.6 13.5 37.8 13.5 39. S-5194 14.7 44.2 14.7 53.3 14.7 62.1 14.7 48.2 14.7 50. S-5290 12.6 26.4 12.6	S-5180	0.29	0.45	0.29	0.45	0.29	0.54	0.29	0.63	0.29	0.49	0.29	0.51
S-5185 1.9 4.1 1.9 4.1 1.9 5.0 1.9 5.8 1.9 4.5 1.9 4. S-5187 4.8 11.2 4.8 13.5 4.9 15.7 4.8 12.2 4.8 12. S-5188 6.8 14.9 6.8 18.3 6.9 21.2 6.8 16.3 6.8 17. S-5190 12.5 26.4 12.5 31.8 12.6 37.1 12.5 28.8 12.5 30. S-5192 13.5 34.6 13.5 34.6 13.6 41.8 13.6 48.6 13.5 37.8 13.5 39. S-5194 14.7 44.2 14.7 53.3 14.7 62.1 14.7 48.2 14.7 50. S-5290 12.6 26.4 12.6 26.4 12.7 32.0 12.6 37.2 12.6 28.9 12.7 30. S-5292 13.6 34.7 13.6	S-5181	0.43	1.42	0.44	1.42	0.44	1.71	0.44	2.00	0.42	1.54	0.42	1.61
S-5187 4.8 11.2 4.8 11.2 4.8 13.5 4.9 15.7 4.8 12.2 4.8 12.2 S-5188 6.8 14.9 6.8 14.9 6.8 18.3 6.9 21.2 6.8 16.3 6.8 17. S-5190 12.5 26.4 12.5 31.8 12.6 37.1 12.5 28.8 12.5 30. S-5192 13.5 34.6 13.5 34.6 13.6 41.8 13.6 48.6 13.5 37.8 13.5 39. S-5194 14.7 44.2 14.7 53.3 14.7 62.1 14.7 48.2 14.7 50. S-5290 12.6 26.4 12.6 26.4 12.7 32.0 12.6 37.2 12.6 28.9 12.7 30. S-5292 13.6 34.7 13.6 34.8 13.6 41.9 13.8 48.6 13.5 37.9 13.6 39.	S-5182	1.6	3.1	1.6	3.1	1.6	3.7	1.6	4.3	1.6	3.3	1.6	3.5
S-5188 6.8 14.9 6.8 14.9 6.8 18.3 6.9 21.2 6.8 16.3 6.8 17. S-5190 12.5 26.4 12.5 26.4 12.5 31.8 12.6 37.1 12.5 28.8 12.5 30. S-5192 13.5 34.6 13.5 34.6 13.6 41.8 13.6 48.6 13.5 37.8 13.5 39. S-5194 14.7 44.2 14.7 53.3 14.7 62.1 14.7 48.2 14.7 50. S-5290 12.6 26.4 12.6 26.4 12.7 32.0 12.6 37.2 12.6 28.9 12.7 30. S-5292 13.6 34.7 13.6 34.8 13.6 41.9 13.8 48.6 13.5 37.9 13.6 39. S-5294 14.6 44.3 14.8 44.4 14.7 53.4 14.9 62.3 14.7 48.4	S-5185	1.9	4.1	1.9	4.1	1.9	5.0	1.9	5.8	1.9	4.5	1.9	4.7
S-5190 12.5 26.4 12.5 26.4 12.5 31.8 12.6 37.1 12.5 28.8 12.5 30. S-5192 13.5 34.6 13.5 34.6 13.6 41.8 13.6 48.6 13.5 37.8 13.5 39. S-5194 14.7 44.2 14.7 53.3 14.7 62.1 14.7 48.2 14.7 50. S-5290 12.6 26.4 12.6 26.4 12.7 32.0 12.6 37.2 12.6 28.9 12.7 30. S-5292 13.6 34.7 13.6 34.8 13.6 41.9 13.8 48.6 13.5 37.9 13.6 39. S-5294 14.6 44.3 14.8 44.4 14.7 53.4 14.9 62.3 14.7 48.4 14.6 50. S-5202 26.9 60.3 26.5 60.5 26.7 72.9 26.6 84.8 26.8 66.1	S-5187	4.8	11.2	4.8	11.2	4.8	13.5	4.9	15.7	4.8	12.2	4.8	12.7
S-5192 13.5 34.6 13.5 34.6 13.6 41.8 13.6 48.6 13.5 37.8 13.5 39. S-5194 14.7 44.2 14.7 53.3 14.7 62.1 14.7 48.2 14.7 50. S-5290 12.6 26.4 12.6 26.4 12.7 32.0 12.6 37.2 12.6 28.9 12.7 30. S-5292 13.6 34.7 13.6 34.8 13.6 41.9 13.8 48.6 13.5 37.9 13.6 39. S-5294 14.6 44.3 14.8 44.4 14.7 53.4 14.9 62.3 14.7 48.4 14.6 50. S-5202 26.9 60.3 26.5 60.5 26.7 72.9 26.6 84.8 26.8 66.1 26.8 68.	S-5188	6.8	14.9	6.8	14.9	6.8	18.3	6.9	21.2	6.8	16.3	6.8	17.0
S-5194 14.7 44.2 14.7 44.2 14.7 53.3 14.7 62.1 14.7 48.2 14.7 50 S-5290 12.6 26.4 12.6 26.4 12.7 32.0 12.6 37.2 12.6 28.9 12.7 30 S-5292 13.6 34.7 13.6 34.8 13.6 41.9 13.8 48.6 13.5 37.9 13.6 39 S-5294 14.6 44.3 14.8 44.4 14.7 53.4 14.9 62.3 14.7 48.4 14.6 50 S-5202 26.9 60.3 26.5 60.5 26.7 72.9 26.6 84.8 26.8 66.1 26.8 68	S-5190	12.5	26.4	12.5	26.4	12.5	31.8	12.6	37.1	12.5	28.8	12.5	30.0
S-5290 12.6 26.4 12.6 26.4 12.7 32.0 12.6 37.2 12.6 28.9 12.7 30. S-5292 13.6 34.7 13.6 34.8 13.6 41.9 13.8 48.6 13.5 37.9 13.6 39. S-5294 14.6 44.3 14.8 44.4 14.7 53.4 14.9 62.3 14.7 48.4 14.6 50. S-5202 26.9 60.3 26.5 60.5 26.7 72.9 26.6 84.8 26.8 66.1 26.8 68.	S-5192	13.5	34.6	13.5	34.6	13.6	41.8	13.6	48.6	13.5	37.8	13.5	39.3
S-5292 13.6 34.7 13.6 34.8 13.6 41.9 13.8 48.6 13.5 37.9 13.6 39. S-5294 14.6 44.3 14.8 44.4 14.7 53.4 14.9 62.3 14.7 48.4 14.6 50. S-5202 26.9 60.3 26.5 60.5 26.7 72.9 26.6 84.8 26.8 66.1 26.8 68.	S-5194	14.7	44.2	14.7	44.2	14.7	53.3	14.7	62.1	14.7	48.2	14.7	50.1
S-5294 14.6 44.3 14.8 44.4 14.7 53.4 14.9 62.3 14.7 48.4 14.6 50. S-5202 26.9 60.3 26.5 60.5 26.7 72.9 26.6 84.8 26.8 66.1 26.8 68.	S-5290	12.6	26.4	12.6	26.4	12.7	32.0	12.6	37.2	12.6	28.9	12.7	30.1
S-5202 26.9 60.3 26.5 60.5 26.7 72.9 26.6 84.8 26.8 66.1 26.8 68.	S-5292	13.6	34.7	13.6	34.8	13.6	41.9	13.8	48.6	13.5	37.9	13.6	39.3
	S-5294	14.6	44.3	14.8	44.4	14.7	53.4	14.9	62.3	14.7	48.4	14.6	50.2
S-5203 51.9 88.8 52.0 88.8 52.0 107.0 52.0 124.8 51.8 96.7 52.0 100	S-5202	26.9	60.3	26.5	60.5	26.7	72.9	26.6	84.8	26.8	66.1	26.8	68.7
	S-5203	51.9	88.8	52.0	88.8	52.0	107.0	52.0	124.8	51.8	96.7	52.0	100.7
S-5204 74.7 130.1 74.6 130.3 74.7 157.1 74.7 182.7 74.5 141.8 74.7 147	S-5204	74.7	130.1	74.6	130.3	74.7	157.1	74.7	182.7	74.5	141.8	74.7	147.9

OIL SEPARATORS

Conventional

The function of an Oil Separator is to remove oil from the discharge gas and return it to the Compressor either directly or through an Oil Management System.

Applications

Conventional Oil Separators can be used in a wide variety of applications. Common applications include multi-compressor racks and remote condensing units. These separators are designed for use with scroll and reciprocating type compressors. They are not recommended for screw or rotary vane compressors. Conventional oil separators are intended for Low Pressure Oil Management Systems.

Conventional Oil Separators are suitable for use with HCFC and HFC refrigerants, and their associated oils, as well as other industrial fluids non-corrosive to steel, copper and brass.

Main Features

- •ODS refrigerant connection
- SAE flare oil connections
- •Low pressure drop
- •No moving parts within oil separation zone
- •Serviceable models available, S-19** series
- •1/8" NPT oil drain
- •Magnet on oil float to collect debris
- •Replacement parts available

Technical Specifications

Maximum working pressure = 450 PSI (31 Bar)
Allowable operating temperature = +15°F to +300°F (-10°C to +149°C)

Henry Technologies' Convetional OII Separators are UL and C-UL Listed by Underwriters Laboratories, Inc. Additionally, Conventional Oil Separators are designed and registered for use in Canada. Please contact Technical Support at 1-800-627-5148 for CRN details and list of approved provinces and territories.

Materials of Construction

The main components; shell, end caps and connections are made from carbon steel. The separation screens are made from brass. The float assemblies are made from stainless steel, brass and copper.

Installation - Notes

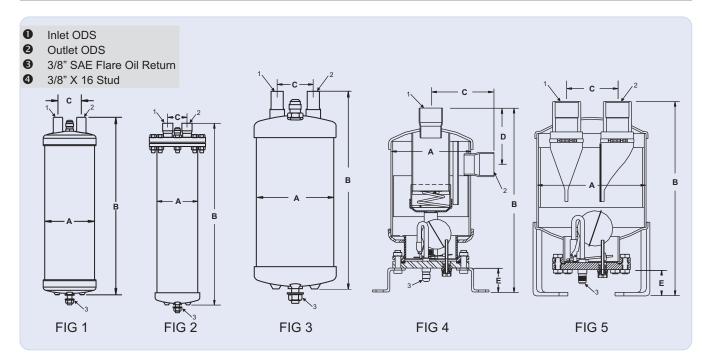
Full instructions are given in the Oil Level Control Manual, included with each separator.

Selection Guidelines

Henry Technologies' Conventional Oil Separators should not be undersized (calculated DCFM greater than 125% of nominal), which would cause higher gas velocities to pass through the inlet/outlet screens. Higher flow velocities may cause pre-mature failure of the screens. Please contact Technical Support at 1-800-627-5148 for assistance or recommendations when selecting Oil Separators.







			NON	N-SERVICEAB	LE OIL SEPA	RATORS			
Part No	ODS (inch)	Fig No	D	imensions (inc	:h)	Min	Max	Pre-charge	Weight (lbs)
Faitino	ODS (IIICII)	Fig No	ØA	В	С	Discharge CFM	Discharge CFM	Amount	weight (ibs)
S-5580	1/4	1	4.0	8.25	1.88	0.25	0.75	12	4.2
S-5581	3/8	1	4.0	8.25	1.88	0.33	1.0	12	4.2
S-5582	1/2	1	4.0	10.25	1.88	0.50	1.5	12	5.1
S-5585	5/8	1	4.0	14.25	1.88	1.32	4.0	12	7.1
S-5587	7/8	1	4.0	17.75	1.88	2.15	6.5	12	7.9
S-5588	1 1/8	1	4.0	21.00	1.88	2.64	8.0	12	9.0
S-5590	1 3/8	1	4.0	21.25	1.88	3.30	10.0	12	9.9
S-5687	7/8	3	6.0	11.13	3.00	2.48	7.5	30	12.1
S-5688	1 1/8	3	6.0	15.38	3.00	2.97	9.0	30	15.0
S-5690	1 3/8	3	6.0	15.63	3.00	3.63	11.0	30	15.0
S-5692	1 5/8	3	6.0	18.63	3.00	4.62	14.0	30	18.1
S-5694	2 1/8	3	6.0	19.13	3.00	7.43	22.5	30	19.0

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				SE	RVICEABLE	OIL SEPARA	IORS				
Part No	ODS	Fig No		Dimensio	ons (inch)		Min	Max	Pre-charge	Weight (lbs)	
Faltino	(inch)	Fig No	ØA	В	С	D	Discharge CFM	Discharge CFM	Amount	Weight (ibs)	
S-5882	1/2	2	4.0	10.25	1.88	N/A	.50	1.5	12	9.0	
S-5885	5/8	2	4.0			1.32	4.0	12	11.0		
S-5887	7/8	2	4.0	17.75	1.88	N/A	1.98	6.0	12	12.1	
S-5888	1 1/8	2	4.0	12.00	1.88	N/A	2.64	8.0	12	13.0	
S-5890	1 3/8	2	4.0	21.25	1.88	N/A	3.30	10.0	12	13.0	
S-5792	1 5/8	4	6.0	29.25	4.75	5.00	4.62	14.0	20	27.1	
S-5794	2 1/8	4	6.0	29.56	4.60	5.25	7.43	22.5	20	27.1	
S-1901	1 5/8	5	8.0	21.00	3.50	N/A	5.94	18.0	20	31.1	
S-1902	2 1/8	5	8.0	21.00	3.50	N/A	8.91	27.0	20	32.0	
S-1903	2 5/8	5	10.0	21.50	4.63	N/A	16.17	49.0	20	44.1	
S-1904	3 1/8	5	12.0	25.75	5.56	N/A	22.44	68.0	20	75.0	

OIL SEPARATORS Coalescing - All-Welded

The function of a Coalescing Oil Separator is to remove oil from the discharge gas and return it to the Compressor either directly or through an Oil Management System.

Applications

The Coalescing Oil Separators are typically used on larger industrial refrigeration systems and rely on a coalescing element to remove oil from the hot gas. Once the filtering element becomes saturated with oil it will begin accumulating within the vessel. An optional float valve can be attached to control oil flow to an Oil Management System or straight to a compressor crankcase.

Henry Technologies' Coalescing Oil Separators are suitable for use with Ammonia, HCFC and HFC refrigerants, and their associated oils, as well as other industrial fluids non-corrosive to steel.

Main Features

- •ODS and Butt Weld refrigerant connections
- •NPT oil connections
- ·All welded steel design
- •Designed specifically for reciprocating refrigeration compressors
- Five models available covering entire range of single stage and booster compressors
- •Oil float valve assembly and shut off valves available as optional accessories.
- •Can be mounted horizontal or vertical





CRN

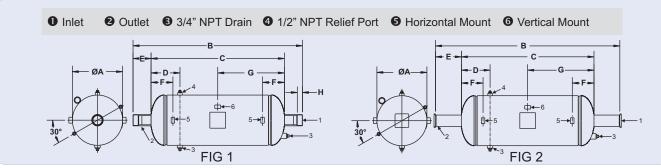
Technical Specifications

Maximum working pressure = 400 PSI (27.5 Bar)
Allowable operating temperature = -20°F to +230°F (-29°C to +110°C)

Henry Technologies' Coalescing Oil Separators are constructed in accordance with ASME Section VIII. Additionally, Coalescing Oil Separators are designed and registered for use in Canada. Please contact Technical Support at 1-800-627-5148 for CRN details and list of approved provinces and territories.

Materials of Construction

All pressure bearing components and connections are made of steel.



ODS CONNECTIONS* Dimensions (inch) Weic															
Part No ODS Fig No OA P C D E E C H															
Fallino	(inch)	FIG INO	ØA	B C D E F G H											
COS-030F	2 1/8	1	8.63												
COS-070F	2 5/8	1	12.75	43.00	33.82	7.33	4.59	5.54	16.91	1.31	238.0				
COS-140F	3 1/8	1	16.00	51.00	41.80	7.53	4.60	6.66	20.93	1.69	333.0				
*All ODS connection separators can be cut back to RW connections															

	BUTT WELD CONNECTIONS												
Part No	BW (inch)	Eig No				imensions (incl	n)			Weight			
Fait NO	DVV (IIICII)	Fig No	ØA										
COS-030	2	2	8.63	37.03	23.31	4.93	6.86	4.93	11.73	78.0			
COS-070	2 1/2	2	12.75	47.00	33.82	7.33	6.59	5.54	16.91	238.0			
COS-140	3	2	16.00	55.06	41.86	7.53	6.60	6.66	20.93	333.0			
COS-205	4	2	18.00	65.00	51.70	9.04	6.65	8.04	25.85	462.0			
COS-250	5	2	20.00	69.00	52.60	9.49	8.20	8.55	26.30	536.0			

Nominal D.C.F.M.Capacity Rating											
	Refrigerant	COS-030	COS-070	COS-140	COS-205	COS-250					
Group 1	R-717 (Ammonia), Natural Gas	30	70	140	205	250					
Group 2	R-290 (Propane), R744 (Carbon Dioxide)	25	65	135	200	225					
Group 3	R-22, R-23, R-407C, R-410A, R508B	20	50	105	150	180					
Group 4 R-134A, R-404A, R507A, R-417A, R422D, R434A 19 45 95 140 160											
Group 4	. , , , , ,	19	45								



OIL SEPARATORS

Coalescing - Replaceable Cartridges

The function of a Coalescing Oil Separator is to remove oil from the discharge gas and return it to the Compressor either directly or through an Oil Management System.

Applications

The Coalescing Oil Separators are typically used on larger industrial refrigeration systems and rely on a coalescing element to remove oil from the hot gas. Once the filtering element becomes saturated with oil it will begin accumulating within the vessel. An optional float valve can be attached to control oil flow to an Oil Management System or straight to a compressor crankcase

Henry Technologies' Coalescing Oil Separators are suitable for use with Ammonia, HCFC and HFC refrigerants, and their associated oils, as well as other industrial fluids non-corrosive to steel.

Main Features

- •ODS and Butt Weld refrigerant connections
- NPT oil connections
- •Easily replaceable coalescing cartridge
- •Designed specifically for reciprocating refrigeration compressors
- Five models available covering entire range of single stage and booster
- •Oil float valve assembly and shut off valves available as optional accessories
- •Can be mounted horizontal or vertical



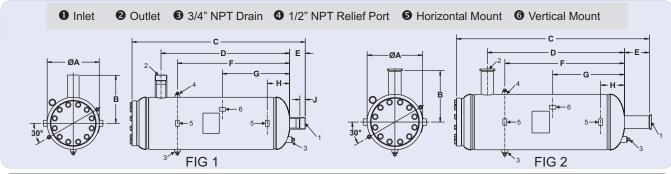
Technical Specifications

Maximum working pressure = 400 PSI (27.5 Bar)
Allowable operating temperature = -20°F to +230°F (-29°C to +110°C)

Henry Technologies' Coalescing Oil Separators are constructed in accordance with ASME Section VIII. Additionally, Coalescing Oil Separators are designed and registered for use in Canada. Please contact Technical Support at 1-800-627-5148 for CRN details and list of approved provinces and territories.

Materials of Construction

All pressure bearing components and connections are made of steel.



ODS CONNECTIONS																
												Weight				
Part No	(inch)	rig ivo	ØA	В	B C D E F G H J											
COSM-030F	2 1/8	1	8.63	B C D E F G H J 9.81 32.07 22.87 4.82 19.71 14.46 6.21 1.37 1												
COSM-070F	2 5/8	1	12.75	11.75	42.35	31.47	3.82	27.47	16.47	5.47	1.31	379.0				
COSM-140F	COSM-140F 3 1/8 1 16.00 14.00 52.56 38.04 5.46 30.54 20.10 6.66 1.69 566.0															

BUTT WELD CONNECTIONS											
Dort No	BW (inch)	Fig No	Dimensions (inch)								
Part No			ØΑ	В	С	D	E	F	G	Н	(lbs)
COSM-030	2	2	8.63	10.31	33.76	22.87	6.51	19.71	14.46	6.21	138.0
COSM-070	2 1/2	2	12.75	11.82	44.38	31.47	5.82	27.47	16.47	5.47	379.0
COSM-140	3	2	16.00	14.00	52.56	38.04	5.46	30.54	20.10	6.66	566.0
COSM-205	4	2	18.00	16.00	70.06	49.91	8.27	44.41	27.54	8.04	773.0
COSM-250	5	2	20.00	16.00	71.49	50.79	7.32	44.29	32.73	8.54	896.0

Nominal D.C.F.M.Capacity Rating										
Refrigerant COSM-030 COSM-070 COSM-140 COSM-205										
Group 1	R-717 (Ammonia), Natural Gas	30	70	140	205	250				
Group 2	R-290 (Propane), R744 (Carbon Dioxide)	25	65	135	200	225				
Group 3	roup 3 R-22, R-23, R-407C, R-410A, R508B 20 50 105 150 180									
Group 4 R-134A, R-404A, R507A, R-417A, R422D, R434A 19 45 95 140 160										
For additional refrigerants or sizing informatoin contact Technical Support at 1(800)-627-5148										

OIL SEPARATORS Screen Type

The function of a Screen Type Oil Separator is to remove oil from the discharge gas and return it to the Compressor either directly or through an Oil Management System.

Applications

Applications

Similar to the Coalescing Separators, Screen Type Oil Separators are typically used on larger industrial refrigeration systems. The stainless steel screen element offers a lower pressure drop compared to coalescing filters. Oil droplets are removed from the hot gas discharge by the stainless steel screen. The oil then drains and collects in the separator before being returned to the compressor. Henry Technologies' Screen Type Oil Separators are suitable for use with ammonia, HCFC and HFC refrigerants, and their associated oils, as well as other industrial fluids non-corrosive to steel

Main Features

- •ODS and Butt Weld refrigerant connections
- •NPT oil connections
- •Stainless steel 303 screen mesh filter media
- •Oil float valve assembly and shut off valves available as optional accessories
- ·All welded design
- ·Lower pressure drop than coalescing models

Technical Specifications

Maximum working pressure = 400 PSI (27.5 Bar) Allowable operating temperature = -20°F to +300°F (-29°C to +149°C)

Henry Technologies' Screen Type Oil Separators are constructed to ASME Section VIII. Additionally, Screen Type Oil Separators are designed and registered for use in Canada. Please contact Technical Support at 1-800-627-5148 for CRN details and list of approved provinces and territories.

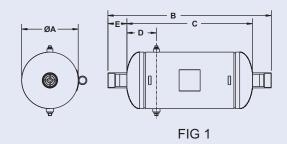


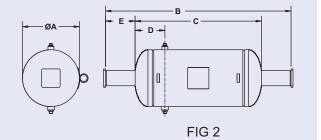




Materials of Construction

All pressure bearing components and connections are made of steel. Filter element is made of stainless steel mesh.





ODS CONNECTIONS*											
David Na	ODS	F: N -	Rating in CFM**		Dimensions (inch)						
Part No	(inch)	Fig No	Max	Min	ØA	В	С	D	Е	Weight (lbs)	
O-100F	2 1/8	1	100	20	6.63	31.0	23.75	5.06	3.62	38.0	
O-175F	2 5/8	1	175	30	8.63	30.95	23.23	4.89	3.86	48.0	
O-250F	2 5/8	1	250	50	10.75	31.08	23.88	5.62	3.60	76.0	
O-350F	3 1/8	1	350	75	12.75	40.00	31.26	9.01	4.37	120.0	

*All ODS connection separators can be cut back to BW connections

**Compressor Displacement in cubic feet per minute

	BUTT WELD CONNECTIONS											
Part No	BW (inch)	Fig No	Rating in CFM*		Dimensions (inch)							
Part No			Max	Min	ØA	В	С	D	Е	(lbs)		
O-100	2	2	100	20	6.63	35.0	23.75	5.06	5.62	40.0		
O-175	2 1/2	2	175	30	8.63	32.75	23.25	4.89	4.75	54.0		
O-250	2 1/2	2	250	50	10.75	35.08	23.88	5.62	5.60	81.0		
O-350	3	2	350	75	12.75	42.00	31.26	9.01	5.37	124.0		
O-650	4	2	650	100	14.0	44.61	31.89	9.47	6.36	162.0		
O-900	4	2	900	150	16.0	52.00	44.00	15.5	4.00	218.0		

*Compressor Displacement in cubic feet per minute

