

EMERSON CLIMATE TECHNOLOGIES-Oil Controls High Efficiency Centrifugal Oil Separator

The High Efficiency Centrifugal Oil Separator is used in ultra-low temperature systems with long refrigerant lines or inherent oil return problems. It is also used on multiple compressor racks for supermarkets and air conditioning systems for use with CFCs, HCFCs, HFCs, and their lubricants. Suitable for use with R-410A.



Features

- Internal oil collection screen
- Hermetic welded or accessible bolted flange construction
- Corrosion resistant epoxy powder paint
- High efficiency (99%) centrifugal separation
- R-410A pressure rated

Specifications

- Maximum working pressure: 450 psi - flanged models
600 psi - welded models
- UL/CUL file number: SA8547

Nomenclature example: A-FC 8241717H

A	F	C	8	24	17	17	H
Series	F = Flanged W = Welded	Centrifugal	Diameter (in)	Length (in)	Inlet Connection in 1/8"	Outlet Connection in 1/8"	5" Legs Standard H = 10" Legs

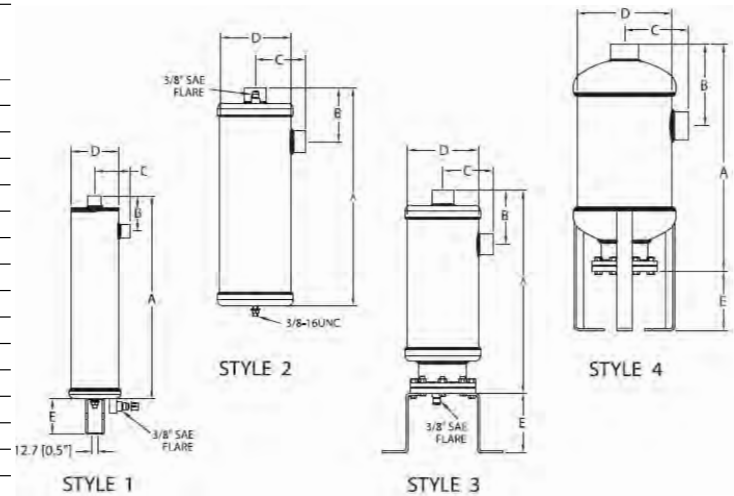
Replacement Parts

PCN	Part	Contains
065847	Float Assembly Kit*	Flange w/intergral float ass'y and flange gasket
065849	Gasket Kit	Flange gasket

*Repairs AC & R series S1900 Standard and 5200 Helical Oil Separators

Ordering Information

PCN	Solder Connection Size	A	B	C	D	Description
065895**	7/8	17.01	2.95	4.00	-	A-WC 41777
065896**	1 1/8	19.02	3.07	4.00	-	A-WC 41999
066094**	1 3/8	18.00	3.94	4.25	-	A-WC 6181111
066095**	1 5/8	18.00	4.53	4.25	-	A-WC 6181313
066096**	2 1/8	18.13	4.65	4.38	-	A-WC 6181717
065930	1 3/8	17.00	3.94	6.00	5.00	A-FC 6221111
065931	1 3/8	17.00	3.94	6.00	10.00	A-FC 6221111H
065362	1 5/8	17.00	4.53	6.00	5.00	A-FC 6221313
065932	1 5/8	17.00	4.53	6.00	10.00	A-FC 6221313H
065933	2 1/8	17.13	4.65	6.00	5.00	A-FC 6221717
065934	2 1/8	17.13	4.65	6.00	10.00	A-FC 6221717H
065276	2 1/8	19.06	6.83	5.38	5.00	A-FC 8241717
065935	2 1/8	19.06	6.83	5.38	10.00	A-FC 8241717H
065936	2 5/8	22.10	6.11	10.00	5.00	A-FC 10272121
065937	2 5/8	22.10	6.11	10.00	10.00	A-FC 10272121H
065938	3 1/8	25.10	7.05	12.00	10.00	A-FC 12302525H



Refrigeration

EMERSON CLIMATE TECHNOLOGIES-Oil Controls High Efficiency Centrifugal Oil Separator Capacity Table

Maximum Capacity of Refrigeration at Evaporator Temperature

Solder Connection Size (ODF)	Syle Number	Shell O.D.	R-134a				R-22/407C				R-404A/507				R-410A				Oil Pre-Charge Amount(oz.)	Description
			-40F		+40F		+40F		+40F		-40F		+40F		-40F		+40F			
			Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW		
7/8"	1	4"	4.5	16	5.6	19	7.1	25	8	28	6.3	22	8.3	29	11	38	12	43	14	A-WC 41777
1 1/8"	1	4"	5.3	19	6.5	23	8.3	29	9.4	33	7.4	26	9.7	34	13	45	14	50	14	A-WC 41999
1 3/8"	4	6"	8.5	30	10	37	13	46	15	53	12	41	16	54	20	71	23	80	25	A-WC 6181111
1 5/8"	4	6"	12	42	15	51	19	65	21	74	16	58	22	76	28	100	32	112	25	A-WC 6181313
2 1/8"	4	6"	14	48	17	58	21	74	24	84	19	66	25	87	32	114	37	129	25	A-WC 6181717
1 3/8"	2	6"	12	42	15	51	19	65	21	74	16	58	22	76	-	-	-	-	25	A-FC 6221111
1 3/8"	2	6"	12	42	15	51	19	65	21	74	16	58	22	76	-	-	-	-	25	A-FC 6221111H
1 5/8"	2	6"	14	48	17	58	21	74	24	84	19	66	25	87	-	-	-	-	25	A-FC 6221313
1 5/8"	2	6"	14	48	17	58	21	74	24	84	19	66	25	87	-	-	-	-	25	A-FC 6221313H
2 1/8"	2	6"	14	50	17	61	22	77	25	88	20	69	26	91	-	-	-	-	25	A-FC 6221717
2 1/8"	2	6"	14	50	17	61	22	77	25	88	20	69	26	91	-	-	-	-	25	A-FC 6221717H
2 1/8"	3	8"	23	80	28	97	35	124	40	140	31	110	41	145	-	-	-	-	25	A-FC 8241717
2 1/8"	3	8"	23	80	28	97	35	124	40	140	31	110	41	145	-	-	-	-	25	A-FC 8241717H
2 5/8"	3	10"	45	159	56	195	71	248	80	280	63	220	83	290	-	-	-	-	25	A-FC 10272121
2 5/8"	3	10"	45	159	56	195	71	248	80	280	63	220	83	290	-	-	-	-	25	A-FC 10272121H
3 1/8"	3	12"	72	253	88	309	112	393	127	445	100	349	131	460	-	-	-	-	25	A-FC 12302525H

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration

Compressors, Chillers, Condensers
 Motors
 Electrical
 Heating Components
 Indoor Air Quality
 Thermostats
 Oils & Chemicals
 Accessories, Supplies & Commodities
 Tools & Instruments
 Refrigeration

EMERSON CLIMATE TECHNOLOGIES-Oil Controls A-W & A-F Oil Separators

The A-W and A-F are used for multiple compressor racks in supermarkets and air conditioning systems for use with HCFCs, HFCs and their lubricants.

Features

- Hermetic welded or accessible bolted flange construction
- Solid copper connections
- Corrosion resistant epoxy powder paint

Nomenclature example: AW 5582 4

A	W	5582	4
Series	W = Welded F = Flanged	Model Number	Connection Size (in 1/8")

Specifications

- Maximum working pressure: 450 psi
- UL/CUL file number: SA10468



Ordering Information* and Capacity Table

FLANGED

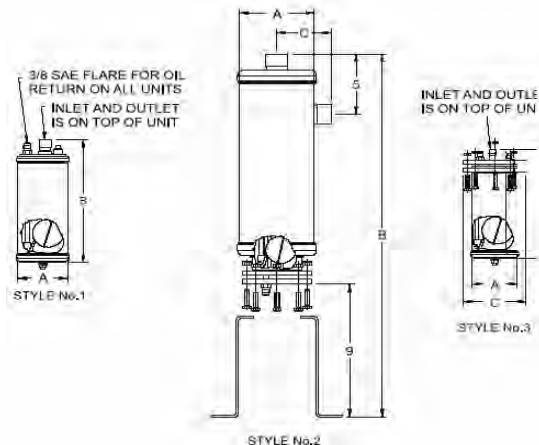
PCN	R-12				R-22/R-407C				R-502				R-134a				R-404A/R-507				Description
	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	
060877	1	3.5	1.5	5.3	1.5	5.3	2	7.1	1.5	5.3	2	7.08	1	3.5	1.8	6.2	1.5	5.3	2	7.0	A-F 58824
060878	3	10.6	4	14.2	4.5	15.9	5.5	19.5	4.8	16.8	5.8	20.4	3.3	11.5	4.5	15.9	4	14.2	5.5	19.0	A-F 58855
060879	4.5	15.9	5.5	19.5	7	24.8	8	28.3	7.5	26.6	8.5	30.1	4.8	16.8	6.5	23	6.5	23	8.5	30.0	A-F 58877
060759	6	21.2	7.5	26.6	9	31.9	11	37.2	9.5	33.6	11.5	40.7	6.5	23	8.5	30.1	8.5	30.1	11	38.0	A-F 58889
060760	7.5	26.6	10	35.4	11.5	40.7	14	47.8	12	42.5	14.5	51.3	8	28.3	11.5	40.7	10.5	37.2	14	49.0	A-F 589011
060761	9	31.9	11.5	40.7	14	49.6	18	62	16	56.6	17.5	62	9.5	33.6	13.3	46.9	14	49.6	17	60.0	A-F 589213
060875	11	38.9	14	49.6	16	56.6	18	63.7	20	70.8	24	85	11.8	41.6	16	56.6	17.5	62	23	81	A-F 579213
060876	17	60.2	22	77.9	25	88.5	30	106	30	106	35	124	18	63.7	25.6	89.4	26	92	34	121	A-F 579417

SEALED

PCN	R-12				R-22/R-407C				R-502				R-134a				R-404A/R-507				Description
	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	-40 F/C Tons	-40 F/C kW	40F (4C) Tons	40F (4C) kW	
060933	1	3.5	1.5	5.3	1.5	5.3	2	7.1	1.5	5.3	2	7.08	1	3.5	1.8	6.2	1.5	5.3	2	7.0	A-W 55824
060934	3	10.6	4	14.2	4.5	15.9	5.5	19.5	4.8	16.8	5.8	20.4	3.3	11.5	4.5	15.9	4	14.2	5.5	19.0	A-W 55855
060931	4.5	15.9	5.5	19.5	7	24.8	8	28.3	7.5	26.6	8.5	30.1	4.8	16.8	6.5	23	6.5	23	8.5	30.0	A-W 55877
060974	6	21.2	7.5	26.6	9	31.9	11	37.2	9.5	33.6	11.5	40.7	6.5	23	8.5	30.1	8.5	30.1	11	38.0	A-W 55889
060930	7.5	26.6	10	35.4	11.5	40.7	14	47.8	12	42.5	14.5	51.3	8	28.3	11.5	40.7	10.5	37.2	14	49.0	A-W 559011
060975	9	31.9	11.5	40.7	14	49.6	18	62	16	56.6	17.5	62	9.5	33.6	13.3	46.9	14	49.6	17	60.0	A-W 559213
060978	9	31.7	12	42.3	13	45.8	14	49.8	15	52.8	20	70.4	9.5	33.4	13.7	48.2	11	38.7	19	66.9	A-W 569011
060979	11	38.9	14	49.6	16	56.6	18	63.7	20	70.8	24	85	11.8	41.6	16	56.6	17.5	62	23	81	A-W 569213
060980	17	60.2	22	77.9	25	88.5	30	106	30	106	35	124	18	63.7	25.6	89.4	26	92	34	121	A-W 569417

*See replacement parts page. Repair kits for style 2 only.

Dimensional Data



Seal Units: A-W

Description	Style No.	Connection Size	Dimensions (in)	
			A	B
A-W 55824	1	1/2 ODF	4.0	10.75
A-W 55855		5/8 ODF		13.2
A-W 55877		7/8 ODF		15.0
A-W 55889		1-1/8 ODF		16.25
A-W 559011		1-3/8 ODF	19.5	
A-W 569011		1-3/8 ODF	15.75	
A-W 569213		1-5/8 ODF	19.0	
A-W 569417		2-1/8 ODF	19.5	

Flanged Units: A-F

Description	Style No.	Connection Size	Dimensions (in)		
			A	B	C
A-F 58824	3	1/2 ODF	4.0	5.5	10.5
A-F 58855		5/8 ODF			15.0
A-F 58877		7/8 ODF			18.0
A-F 58889		1 1/8 ODF			21.25
A-F 589011		1 3/8 ODF			21.37
A-F 589213	1 5/8 ODF	21.75			
A-F 579213	2	1 5/8 ODF	6.0	4.37	20.12
A-F 579417		2 1/8 ODF			20.31

EMERSON CLIMATE TECHNOLOGIES-Oil Controls A-WZ Oil Separators

The A-WZ is used for multiple compressor racks in supermarkets and air conditioning systems for use with HCFCs, HFCs and their lubricants. Suitable for use with R-410A.



Features

- Hermetic welded construction
- Nickel plated steel connections
- Corrosion resistant epoxy powder paint

Specifications

- Maximum working pressure: 600 psi
- UL/CUL file number: SA8547
- CE marked per PED 97/23EC

Nomenclature example: A-WZ 55824

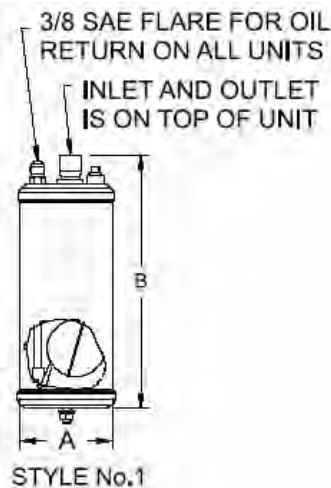
A	WZ	5582	4
Series	W = Welded	Model Number	Connection Size (in 1/8")

Ordering Information and Capacity Table

Maximum Capacity of Refrigeration at Evaporator Temperature

PCN	Solder Connection Size (ODF) (in.)	Shell OD (in.)	Length (in.)	R-134a				R-22/R-407C				R-404A/R-507				R-410A				Oil Pre-charge Amount (oz.)	Description
				-40F/C Tons	-40F/C kW	40F (4C) Tons	40F (4C) kW	-40F/C Tons	-40F/C kW	40F (4C) Tons	40F (4C) kW	-40F/C Tons	-40F/C kW	40F (4C) Tons	40F (4C) kW	-40F Tons	-40F kW	+40F Tons	+40F kW		
066135	1/2	4	10.88	1	3.5	1.8	6.2	1.5	5.3	2	7.1	1.5	5.3	2	7.0	2.7	9	3.1	11	17	A-WZ 55824
066136	5/8	4	13.31	3.3	11.5	4.5	15.9	4.5	15.9	5.5	19.5	4	14.2	5.5	19.0	7.4	26	8.4	29	17	A-WZ 55855
066137	7/8	4	15.13	4.8	16.8	6.5	23	7	24.8	8	28.3	6.5	23	8.5	30.0	11	38	12	43	17	A-WZ 55877
066138	1 1/8	4	16.38	6.5	23	8.5	30.1	9	31.9	11	37.2	8.5	30.1	11	38.0	15	52	17	59	17	A-WZ 55889
066139	1 3/8	4	19.63	8	28.3	11.5	40.7	11.5	40.7	14	47.8	10.5	37.2	14	49.0	19	66	21	75	17	A-WZ 559011
066140	1 1/8	6	15.50	9.5	33.6	13.3	46.9	14	49.6	18	62	14	49.6	17	60.0	18	62	20	70	20	A-WZ 56909
066141	1 3/8	6	15.75	9.5	33.4	13.7	48.2	13	45.8	14	49.8	11	38.7	19	66.9	19	66	21	75	20	A-WZ 569011
066142	1 1/8	6	18.50	11.8	41.6	16	56.6	16	56.6	18	63.7	17.5	62	23	81	18	64	21	72	20	A-WZ 56929
066143	1 5/8	6	18.50	18	63.7	25.6	89.4	25	88.5	30	106	26	92.	34	121	24	85	28	96	20	A-WZ 569213

Dimensional Data



Compressors, Chillers, Condensers

Motors

Electrical

Heating Components

Indoor Air Quality

Thermostats

Oils & Chemicals

Accessories, Supplies & Commodities

Tools & Instruments

Refrigeration

EMERSON CLIMATE TECHNOLOGIES-Oil Controls AOR Oil Reservoirs

The AOR oil reservoir is a holding vessel for stand-by oil necessary for the operation of commercial refrigeration systems. It is a direct replacement of popular competitive models.

Features

- Two sight glasses with floating ball indicators - 2 gallon model
- Three sight glasses with floating ball indicators - 4 gallon model
- 3/8" flare rotolock valves on top and bottom
- Corrosion resistant epoxy powder paint finish
- Standard mounting stud 3/8 x 16 TPI

Specifications

- Maximum working pressure: 450 psi
- UL/CUL file number: SA8547

Nomenclature example: AOR-3

AOR	3
Series	Gallons

Ordering Information

PCN	Total Volume Gallons	A Level Volume (gals)	B Level Volume (gals)	Length (in)	Number of sight glasses	Description
064950	2	3/4	1-2/3	20"	2	AOR-2
065981	3	2/3	2-2/3	31"	3	AOR-3
064951	4	1-1/2	3-3/4	38"	3	AOR-4

Replacement Parts for AOR Oil Reservoirs

PCN	Part	Contains
066002	Mounting Kit	Mounting brackets, self-tapping bolts and mounting stud nuts

Dimensional Data

