Westermeyer Industries Inc.

A COMPANY OF MUELLER INDUSTRIES

COMPONENTS FOR THE REFRIGERATION AND AIR CONDITIONING INDUSTRY

CUSTOMER DRIVEN
RESULTS ORIENTED

CATALOG 108

2013
2014

EDITION 5



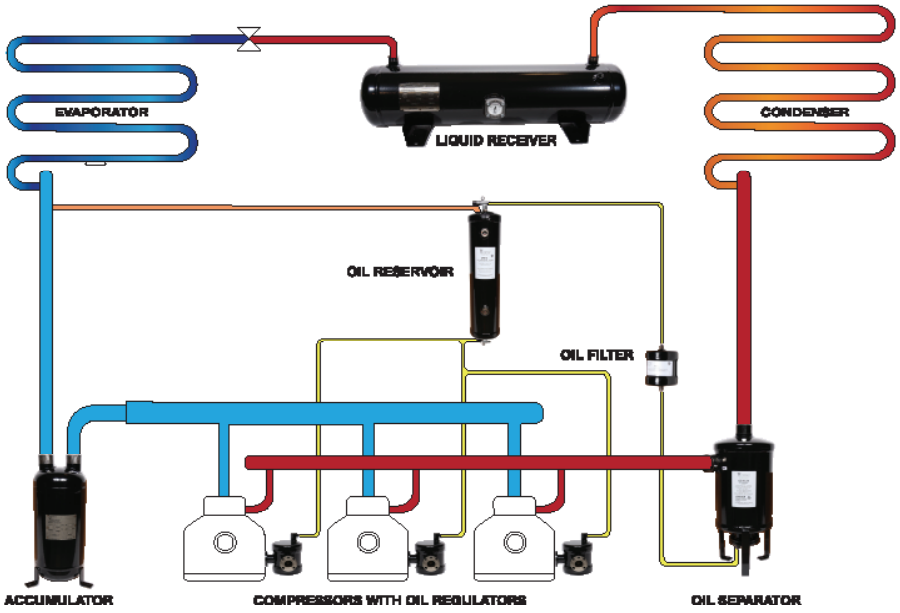

ISO 9001:2008 REGISTERED — ASME — UL — PED — CRN

Table of Contents

Company Overview

Westermeyer Industries designs, manufactures, and distributes high-quality commercial components and accessories for the refrigeration industry. While some companies want to work with you just to get the sale, our focus is to get to know our customers so that we can work together to develop unique solutions that add value to your system. *We strive to be your business partner, not just your supplier.*

Engineering and Manufacturing Capabilities
All of Westermeyer Industries' components are designed and manufactured using proven engineering methods, and the company is committed to the continuous improvement of existing products, as well as research and development of new designs. Our goal is to enhance product efficiencies and increase product reliability.



While standard components will often meet your basic needs, we realize there are instances when only a unique solution will work. Our engineering team offers complete design services to provide custom components to fit your specialized system needs.

To ensure product quality and effectiveness, we subject our products to design verification and validation with our in-house refrigeration test system. All products are manufactured in accordance with the standards of Underwriters Laboratories, ASME, ASHRAE, CRN, PED, and ARI, and each one is pneumatically tested using nitrogen to validate product quality.

The following pages outline our current product line. Included at the front of the catalog is a full line of new high pressure components that are manufactured for use with systems employing R-410A and CO_2 refrigerants. Westermeyer Industries also offers a variety of other services to assist you, from the basic to the highly complex. We can fulfill your basic metal fabrication needs or address your more sophisticated requests for refrigeration and air conditioning systems. From subassemblies built to your specification, to the kitting of parts to aid in quick assembly, we have the ability to deliver specialized products and services.

For further information on specialized component design and development, please contact our engineering department.

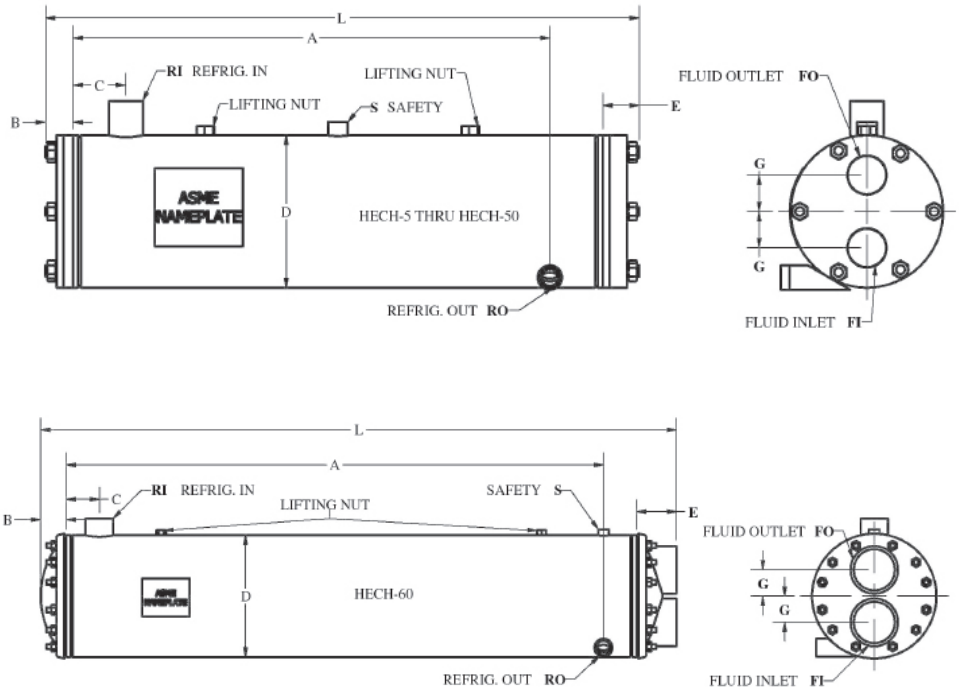
HECH Condensers

This new line of HECH condensers are high capacity & cleanable. The enhanced copper tubing provides extra heat transfer surface thereby reducing the overall size of the condenser. Both the tube sheet and water plates have been epoxy coated for increased corrosion protection.

Custom models are also available. Maximum working pressure is 600 psig refrigerant side / 150 psig fluid side.

Consult Westermeyer Industries for more information.

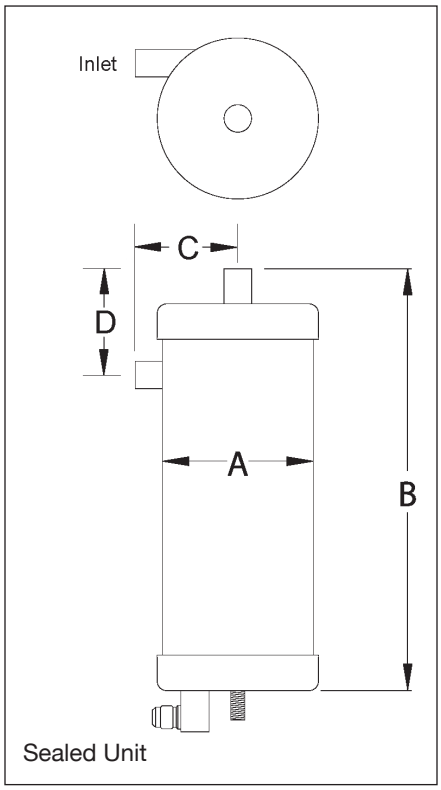
ASME SECTION VIII



Model	Nominal HP		Dimensions (in)							Connections (in)				
	Clean	Fouled	A	B	C	D	E	G	L	RI (ods)	RO(ods)	FO & FI (npt)	S (npt)	Holding Capacityfor R410A (lbs)
HECH-2	2.5	2	22	2	2	5	2	1-1/2	28	5/8	1/2	3/4	3/8	12
HECH-3	3.9	3.5	22	2	1.81	6	2	1-7/8	28	7/8	5/8	3/8	3/8	14
HECH-5	8.61	5.26	21-1/2	1-1/2	2-1/2	6-5/8	2	2	28	1-1/8	5/8	1	1/2	16.00
HECH-7	8.74	7.72	27-1/2	1-1/2	2-1/2	6-5/8	2	2	33-1/2	1-3/8	7/8	1-1/4	1/2	20.00
HECH-10	11.75	10.09	27-1/2	1-1/2	2-1/2	6-5/8	2	2	33-1/2	1-3/8	7/8	1-1/4	1/2	17.00
HECH-15	18.25	15.37	27	1-1/2	3	8-5/8	2	2	33-1/2	1-5/8	1-1/8	2	1/2	33.00
HECH-20	34.18	20.78	45	1-1/2	3	8-5/8	2	2	51-1/2	1-5/8	1-1/8	2	1/2	55.00
HECH-25	35.58	23.96	45	1-1/2	3	8-5/8	2	2	51-1/2	2-1/8	1-3/8	2	1/2	53.00
HECH-30	43.16	30.37	45	2	3	10-3/4	3	2-1/8	53	2-1/8	1-3/8	2-1/2	1/2	88.00
HECH-40	50.13	41.51	57	2	3	10-3/4	3	2-1/8	65	2-1/8	1-3/8	3	1/2	111.00
HECH-50	66.01	54.65	57	2	3	10-3/4	3	2-1/8	65	2-5/8	1-5/8	3	1/2	104.00
HECH-60	85.30	62.23	56-1/2	2-5/8	3-1/2	12-3/4	3-1/2	2-3/4	66-3/4	2-5/8	1-5/8	4	1/2	158.00

Note: Ratings pertain to R-410A only.

High Pressure Centrifugal Oil Separators
Maximum Working Pressure—675 psig



High Pressure Centrifugal Oil Separators

High pressure centrifugal oil separators are designed to remove large quantities of oil at a wide range of operating capacities. Field tests have shown these oil separators are up to 99% effective—even in high oil loading conditions. For screw compressor applications, a high pressure oil separator/reservoir **without internal float valve** must be used (see page 5).

Select an oil separator based on the system's tonnage under normal operating conditions. This is the capacity or compressor(s) BTUs based on refrigerant gas at the saturated suction and condensing temperatures of the operating system. For optimum sizing, select an oil separator with a capacity closest to the system's load at evaporating temperature. Minimum tonnage is 30% of the rated capacity.

For refrigerants and conditions not listed, see our sizing calculator at www.westermeyerind.com or contact Westermeyer Industries for assistance.

Features

- Welded design for higher strength
- Nitrogen tested for cleanliness
- Powder paint finish
- 675 psig maximum working pressure

	Catalog Number	ODS Conn. Size	Dimensions				Max. Capacity in Tons of Refrigeration	Maximum Discharge (CFM)	Precharge Amount (oz.)
							R-410A		
			A	B	C	D	+40°F		
Sealed Units	OSH4-04C	1/2	4"	13"	3"	3.5"	3	1.5	15
	OSH4-05C	5/8	4"	15"	3"	3.5"	10	5	15
	OSH4-07C	7/8	4"	17"	3"	4"	16	7.5	15
	OSH4-11C	1-1/8	4"	19"	3"	4"	21	10	15
	OSH6-13C	1-3/8	6"	15"	4.5"	5"	27	13	40
	OSH6-15C	1-5/8	6"	17"	4.5"	5"	35	17	40

See page 18 for oil separator sizing information. All capacities shown for R-410A are based on 100°F condensing temperature.

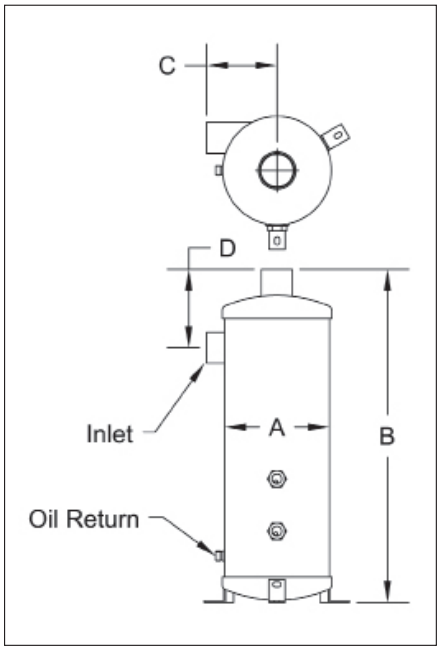
High Pressure Centrifugal Oil Separators/Reservoirs

This product is designed to remove large quantities of oil at a wide range of operating capacities. Field tests have shown these oil separators to be up to 99% effective—even in high oil loading conditions. **This separator/reservoir is particularly effective for use with screw compressor systems.**

The oil separator portion is divided from the reservoir by an internal baffle, which protects the oil in the reservoir from the turbulent action of the oil separator. Two sight glasses provide visual indication of the oil level. It is best to maintain the oil level between the two glasses. A 3/8" ODS Rotolock valve is included for installation on the oil return port.

Select an oil separator based on the system's tonnage under normal operating conditions. This is the capacity or compressor(s) BTUs based on the refrigerant gas at the saturated suction and condensing temperatures of the operating system. For optimum sizing, select an oil separator with a capacity closest to the system's load at the evaporating temperature. Minimum tonnage is 30% of the rated capacity.

- 675 psig maximum working pressure

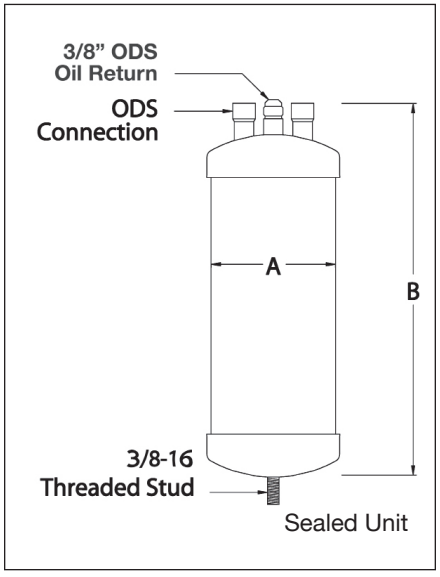


For refrigerants and conditions not listed, see our sizing calculator at www.westermeyerind.com or contact Westermeyer Industries for assistance.

Catalog Number	ODS Conn. Size	Dimensions				Max. Capacity in Tons of Refrigeration R-410A	Maximum Discharge (CFM)	Oil Capacity in gallons
		A	B	C	D	+40°F		
OSH4-07RES	7/8	4"	33"	3"	4"	16	7.5	2
OSH4-11RES	1-1/8	4"	33"	3"	4"	21	10	2
OSH6-13RES	1-3/8	6"	33.5"	4.38"	5"	27	12	1.50
OSH6-15RES	1-5/8	6"	33.5"	4.5"	5"	35	17	1.50
OSH6-21RES	2-1/8	6"	33.5"	5.25"	5.9"	56	27	1.50
OSH8-21RES	2-1/8	8"	25.5"	5.41"	6"	79	38	2.00
OSH10-25RES	2-5/8	10"	30"	6.34"	6.5"	158	76	2.50
OSH12-31RES	3-1/8	12.75"	30"	7.75"	9"	245	118	4.00

See page 18 for oil separator sizing information. All capacities shown for R-410A are based on 100°F condensing temperature.
Note: These oil separators must be used with an oil pressure reducing valve. The oil pressure will be the same as discharge pressure.

High Pressure Conventional Oil Separators
Maximum Working Pressure—675 psig



High Pressure Conventional Oil Separators

Our standard screen style separators remove oil from refrigerant gas using three methods: velocity reduction, filtering through screens and baffling. All separated oil is then returned to the compressor crankcase or reservoir by an internal oil float valve.

Select an oil separator based on the system's tonnage under normal operating conditions. This is the capacity or compressor(s) BTUs based on the refrigerant gas at the saturated suction and condensing temperatures of the operating system. For selection purposes, select an oil separator with the nearest capacity to the system's load at the evaporating temperature

For refrigerants and conditions not listed, see our sizing calculator at www.westermeyerind.com or contact Westermeyer Industries for assistance.

Features

- Welded design for higher strength
- Nitrogen tested for cleanliness
- Powder paint finish
- 675 psig maximum working pressure

Catalog Number	ODS Conn. Size	Dimensions		Max. Capacity in Tons of Refrigeration	Precharge Amount (oz.)
				R-410A	
		A	B	+40°F	
OSH4-02	1/4	4"	8.25"	2.5	15
OSH4-03	3/8	4"	8.25"	2.5	15
OSH4-04	1/2	4"	10.25"	3	15
OSH4-05	5/8	4"	14.25"	10	15
OSH4-07	7/8	4"	17.75"	16	15
OSH4-11	1-1/8	4"	21"	21	15
OSH4-13	1-3/8	4"	21"	23	15
OSH6-11	1-1/8	6"	15.38"	25	40
OSH6-13	1-3/8	6"	15.38"	27	40
OSH6-15	1-5/8	6"	18.63"	35	40

See page 18 for oil separator sizing information. All capacities shown for R-410A are based on 100°F condensing temperature.

High Pressure Oil Reservoirs

High pressure oil reservoirs are designed to hold excess oil in parallel compressor systems. This oil is a result of varying system loads and defrost cycles. Install the oil reservoir between the oil separator and oil regulators. **There must be a vent valve installed on the reservoir to allow for proper oil pressure.**

The oil reservoir includes the following connections:

- 3/4"-16 spud connection for 3/8" ODS swivel valves
- 3/8" flare connection for pressure vent valve

Each reservoir is supplied with two 3/8" ODS swivel valves. All models are manufactured with sight glasses for oil level viewing.

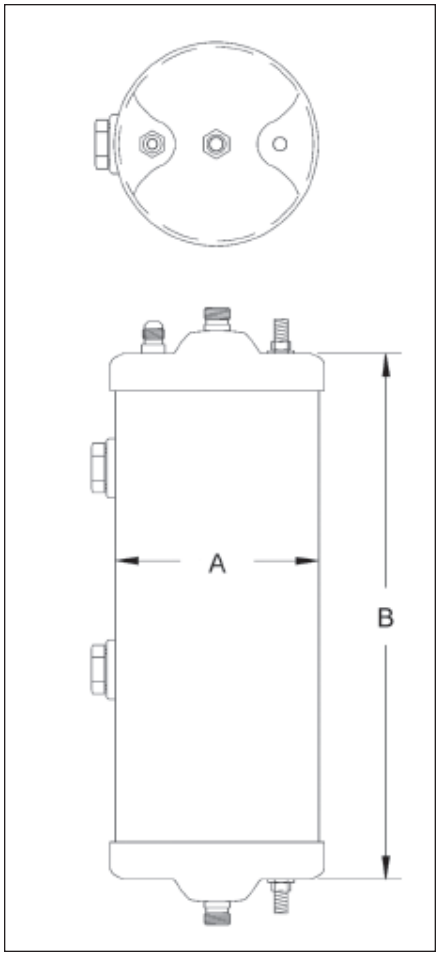
Selection of the oil reservoir size is a matter of individual preference:

- Up to 4 compressors—Use the 2 gallon reservoir
- 4 to 6 compressors—Use the 3 gallon reservoir
- 6 or more compressors—Use the 4 gallon reservoir

These are general guidelines and should be verified by the system's manufacturer or engineer. For systems with extremely long line runs, it is always best to use the 4 gallon model.

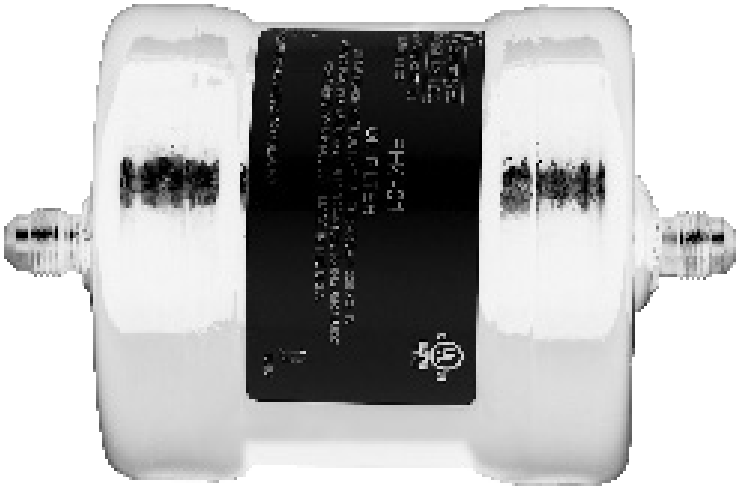
Features

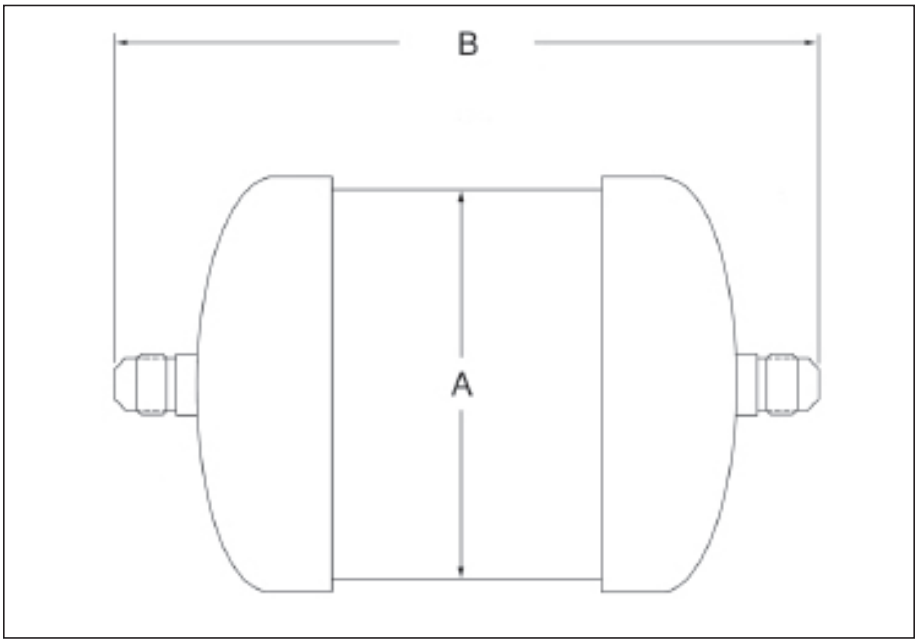
- Welded design for higher strength
- Nitrogen tested for cleanliness
- Removable swivel valves
- Powder paint finish
- 675 psig maximum working pressure



Catalog Number	Capacity (gallons)	Number of Glasses	Dimensions	
			A	B
ORH6-2	2	2	6"	15.5"
ORH6-3	3	2	6"	24.5"
ORH6-4	4	3	6"	33.5"

High Pressure Oil Filters
Maximum Working Pressure—675 psig





Catalog Number	Connection Type	Dimensions	
		A	B
FH3-01	3/8" flare	3"	7.50"
FH3-02	3/4"-16 spud	3"	7.00"
FH4-01	3/8" flare	4"	7.50"
FH4-02	3/4"-16 spud	4"	7.00"

High Pressure Oil Filters

Oil filters should always be used in conjunction with any oil control system. The filter ensures refrigeration oil is clean of any foreign matter that may obstruct float valves in oil regulators and oil separators. Our filters are designed to be a low pressure drop filter, while remaining effective at removing particulate matter. The FH3-01 and FH3-02 models are designed using XH-9 desiccant for removal of moisture in POE oils and contaminants.

Filter Specifications

- 4 micron retention
- 99.5% efficient at removing 4 micron particles and larger
- 330 square inches of filtering surface area
- 8 cubic inches of XH-9 desiccant **(models FH3-01 and FH3-02 only)**
- Suitable for halocarbon refrigerants and all oil types
- Replace at 15 psig pressure drop
- 3/8" flare and 3/4"-16 connections offered **(use swivel valve for 3/4"-16 connection)**

FH3-02 & FH4-02 Shut-off Valve

If you need a shut-off valve, we recommend a 3/8" ODS Rotolock valve with gasket (requires 2 valves). See page 31.

Features

- Welded design for higher strength
- Nitrogen tested for cleanliness
- Good for all oil types
- Powder paint finish
- 675 psig maximum working pressure

High Pressure Liquid Receivers

High pressure liquid receivers are designed to hold excess refrigerant between the condenser and expansion device. Our high pressure receivers are designed with liquid capacities in accordance with ASHRAE standards and have ODS connections only. Receivers can also be modified to meet your specific requirements.

Contact Westermeyer Industries for other custom sizes, including horizontal receivers.

Features

- Welded design for higher strength
- Nitrogen tested for cleanliness
- Powder paint finish
- 675 psig maximum working pressure
- UL version includes fusible plug

Figure 1

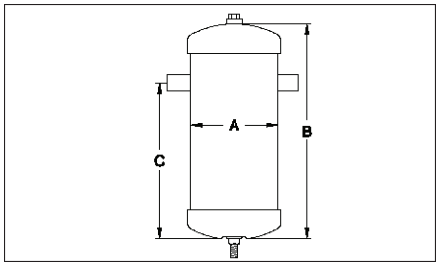
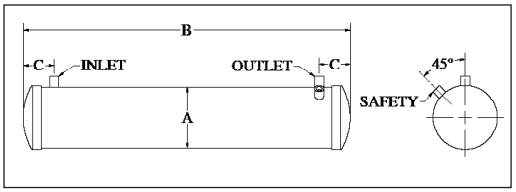


Figure 2



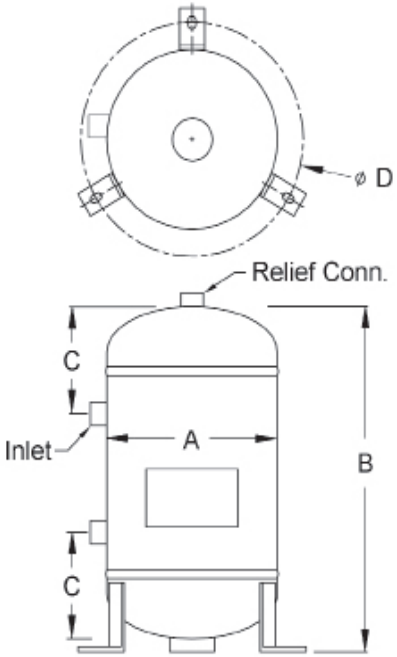
	Catalog Number	Figure	Dimensions			Inlet and Outlet	Relief Conn. FPT	Holding Capacity (lbs of R-410A)
			A	B	C			
Vertical	R3-02	1	3"	10"	7.5"	1/2 ODS	1/8	2.3
	R4-02	1	4"	10"	7.5"	1/2 ODS	1/8	3.8
	R5-02	1	5"	10"	7.5"	5/8 ODS	1/8	5.8
	R6-04	1	6"	12"	8.00"	5/8 ODS	1/8	10.0
Horizontal	R5-02HZ	2	5	28"	25	5/8 ODS	3/8	18
	R5-02HZA	2	5	36"	33	5/8 ODS	3/8	24
	R6-04HZ	2	6	30"	27	5/8 ODS	3/8	23
	R6-04HZA	2	6	36"	33	5/8 ODS	3/8	28
	R5-02HZV	2	5	28"	25	5/8 ODS VALVE	3/8	18
	R5-02HZAV	2	5	36"	33	5/8 ODS VALVE	3/8	24
	R6-04HZV	2	6	30"	27	5/8 ODS VALVE	3/8	29
	R6-04HZVA	2	6	36"	33	5/8 ODS VALVE	3/8	35

All receiver pump-down capacities are calculated at 90% of receiver volume and 90°F for R-410A.
Consult Westermeyer Industries for other custom sizes.

ASME High Pressure Receivers
Maximum Working Pressure—675 psig

Diameter	CRN
6-5/8"	M9141.5
8-5/8"	D09121.652
10-3/4"	D09123.6C
12-3/4"	D09706.678901345YTN
14"	D09545.6
24"	D09623.65

Figure 1



ASME Receivers

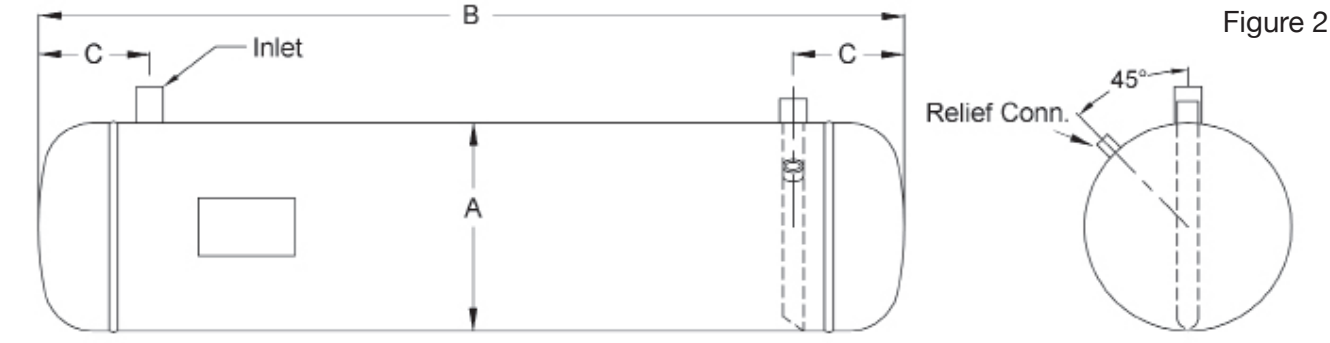
ASME receivers have been designed to conform to the many requirements of the system designer. All receivers are ASME certified and are "U" stamped in accordance with ASME Section VIII code. Catalog models are provided in both vertical and horizontal designs. Inlet and outlet connections may be modified to other connection styles such as rotolock spuds or pipe threads. A receiver should be selected based on the operating charge of the entire system, including all liquid lines. Pump-down capacities shown are calculated based on 90% at 90°F for R-410a. All receivers are powder painted to provide corrosion protection.

Vessels are manufactured using code cases 1518.8 and 2148.

Ordering Options

- Rotolock connections and valves
- Sight glasses
- Mounting brackets
- Various pipe threaded connections
- Liquid level indicator flanges
- 675 psig maximum working pressure

Figure 2



ASME High Pressure Receivers
Maximum Working Pressure—675 psig

Catalog Number	Figure Number	Dimensions				ODS Inlet	ODS Outlet	Relief Conn. FPT	Holding Capacity (lbs of R410A)
		A	B	C	D				
RVH615	1	6.63	15	4.63"	9.12	5/8	5/8	3/8	14
RVH812	1	8.63	12	4.63"	11.12	5/8	5/8	3/8	19
RVH816	1	8.63	16	4.63"	11.12	5/8	5/8	3/8	26
RVH1018	1	10.75	18	6.5"	13.25	1-1/8	1-1/8	1/2	41
RVH1218	1	12.75	18	6.5"	15.25	1-1/8	1-1/8	1/2	60
RVH1220	1	12.75	20	6.5"	15.25	1-1/8	1-1/8	1/2	68
RVH1224	1	12.75	24	6.5"	15.25	1-1/8	1-1/8	1/2	83
RVH1236	1	12.75	36	6.5"	15.25	1-3/8	1-1/8	1/2	127
RVH1248	1	12.75	48	6.5"	15.25	1-3/8	1-1/8	1/2	172
RVH1446	1	14	46	8"	8	1-5/8	1-5/8	1/2	195
RVH1660	1	16	60	8"	8	2-5/8	2-1/8	1/2	325
RVH1862	1	18	62	10"	10	2-5/8	2-1/8	1/2	429
RHH636	2	6.63	36	4.63"	N/A	7/8	7/8	3/8	35
RHH836	2	8.63	36	4.63	N/A	1-1/8	1-1/8	1/2	60
RHH842	2	8.63	42	4.63	N/A	1-1/8	1-1/8	1/2	70
RHH848	2	8.63	48	4.63	N/A	1-1/8	1-1/8	1/2	80
RHH860	2	8.63	60	6.00	N/A	1-1/8	1-1/8	1/2	101
RHH872	2	8.63	72	4.63	N/A	1-1/8	1-1/8	1/2	121
RHH1036	2	10.75	36	6.36	N/A	1-3/8	1-3/8	1/2	89
RHH1048	2	10.75	48	6.50	N/A	1-3/8	1-3/8	1/2	120
RHH1060	2	10.75	60	6.50	N/A	1-3/8	1-3/8	1/2	152
RHH1072	2	10.75	72	6.50	N/A	1-3/8	1-3/8	1/2	184
RHH1084	2	10.75	84	6.50	N/A	1-5/8	1-5/8	1/2	215
RHH1096	2	10.75	96	6.50	N/A	1-5/8	1-5/8	1/2	247
RHH1248	2	12.75	48	8.00	N/A	1-5/8	1-5/8	1/2	172
RHH1260	2	12.75	60	8.00	N/A	1-5/8	1-5/8	1/2	217
RHH1272	2	12.75	72	8.00	N/A	2-1/8	1-3/8	1/2	262
RHH1296	2	12.75	96	8.00	N/A	2-1/8	1-3/8	1/2	351
RHH1472	2	14	72	8.00	N/A	2-1/8	1-3/8	1/2	310
RHH1672	2	16	72	9.00	N/A	2-5/8	2-1/8	1/2	418
RHH1872	2	18	72	10.00	N/A	3-1/8	2-1/8	1/2	464
RHH2072	2	20	72	11.00	N/A	3-1/8	2-5/8	1/2	634
RHH24120	2	24	120	13	N/A	4-1/8	3-5/8	3/4	1725
RHH30120	2	30	120	15	N/A	4-1/8	3-5/8	3/4	2468

High Pressure Accumulators
Maximum Working Pressure—675 psig

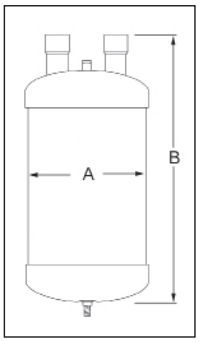


Figure 1

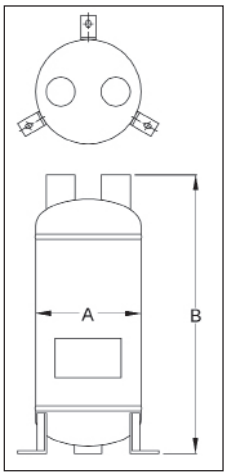


Figure 2

	Catalog Number	Heatpump Catalog Number	ODS Conn. Size	Dims		Recommended Tons of Refrigeration at Evaporator Temperature °F		Holding Cap. (lbs of R-410A)
						R-410A		
				A	B	+40°F		
						Min	Max	
UL Listed- Figure 1	AH3-04	AH3-04HP	1/2	3"	10"	0.25	1.30	1.75
	AH4-04	AH4-04HP	1/2	4"	10"	0.25	1.30	3.50
	AH4-05	AH4-05HP	5/8	4"	10"	0.30	3.00	3.50
	AH4-05A	AH4-05AHP	5/8	4	5.13	0.30	3.00	2
	AH4-05B	AH4-05BHP	5/8	4	10	0.30	3.00	4
	AH4-06	AH4-06HP	3/4	4"	10"	0.37	4.40	3.50
	AH4-06B	AH4-06BHP	3/4	4	10.63	0.37	4.40	3.50
	AH5-07	AH5-07HP	7/8	5"	10"	0.80	5.80	7.00
	AH5-07F	AH5-07FHP	7/8	5	13	0.80	5.80	6.80
	AH6-11	AH6-11HP	1-1/8	6"	18.75"	1.20	13.20	12.30
	AH6-11AE	AH6-11AEHP	1-1/8	6	15	1.20	13.20	11.40
	AH6-13	AH6-13HP	1-3/8	6"	23"	3.00	25.00	17.60
	AH6-13Z	AH6-13ZHP	1-3/8	6	20.25	3.00	25.00	15.60
	AH6-15	AH6-15HP	1-5/8	6"	23"	7.50	41.20	19.40
	AH6-15R	AH6-15RHP	1-5/8	6	24.75	7.50	41.20	19.00
ASME—Figure 2	AH8-15	AH8-15HP	1-5/8	8.625"	22"	7.50	41.20	25.50
	AH8-21	AH8-21HP	2-1/8	8.625"	22"	14.70	87.00	25.50
	AH10-21	AH10-21HP	2-1/8	10.75"	22"	14.70	87.00	37.80
	AH10-25	AH10-25HP	2-5/8	10.75"	22"	20.50	131.00	37.80
	AH10-31	AH10-31HP	3-1/8	10.75"	25"	29.00	192.00	37.80
	AH12-31	AH12-31HP	3-1/8	12.75"	25"	29.00	192.00	63.40

High Pressure Accumulators

Suction line accumulators are designed to act as a temporary holding vessel between the outlet of the evaporator and the inlet of the compressor. During flood back conditions, the accumulator traps the liquid charge and allows it to be evaporated and fed to the compressor at a controlled rate. The internal U-tube includes an orifice, which ensures proper metering of the oil back to the compressor.

The accumulator should not be sized for less than 50% of the total system charge. Size the accumulator for minimum pressure drop. Accumulator capacities below are rated at a 1 psig drop, which facilitates proper oil return. The minimum capacity is the lowest amount that will ensure proper oil return.

For refrigerants and conditions not listed, see our sizing calculator at www.westermeyerind.com or contact Westermeyer Industries for assistance.

Features

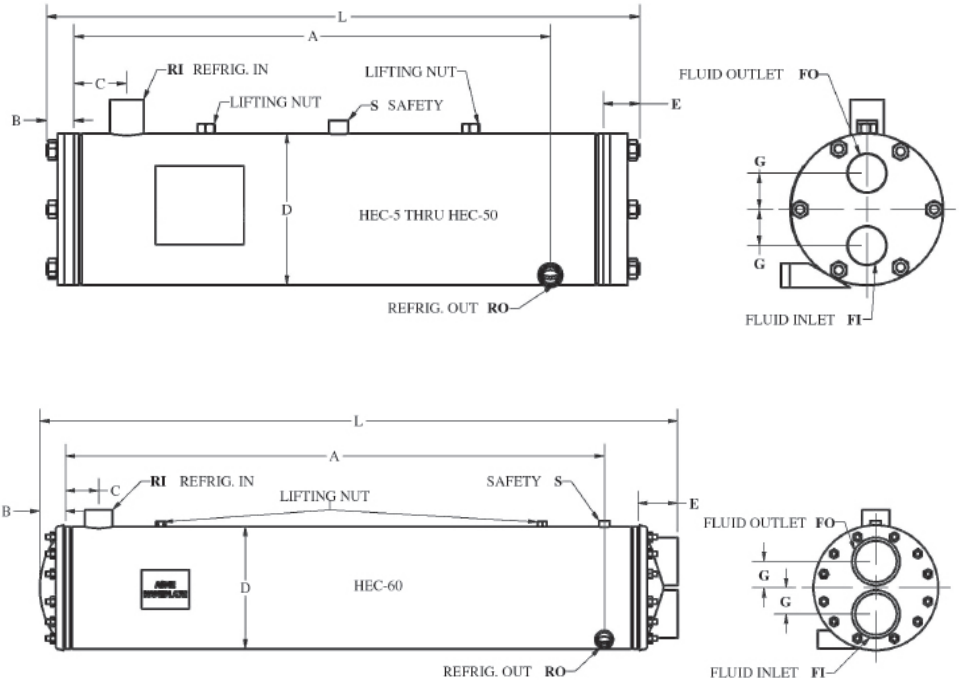
- Welded design for higher strength
- Nitrogen tested for cleanliness
- Powder paint finish
- 675 psig maximum working pressure
- UL version includes fusible plug

HEC Condensers

This new line of HEC condensers are high capacity & cleanable.
The enhanced copper tubing provides extra heat transfer surface thereby reducing the overall size of the condenser. Both the tube sheet and water plates have been epoxy coated for increased corrosion protection.

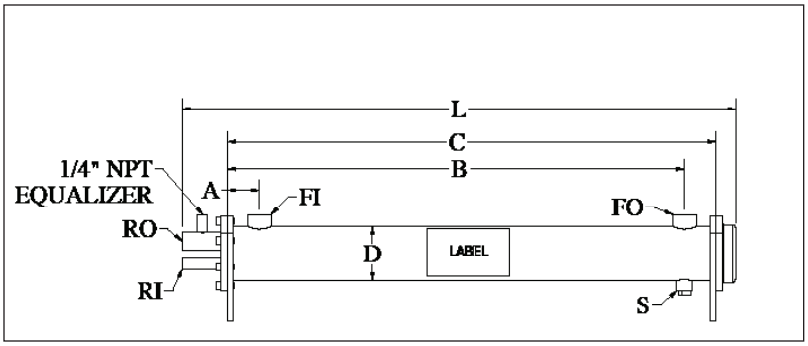
Custom models are also available. Maximum working pressure is 400 psig refrigerant side / 150 psig fluid side.

Consult Westermeyer Industries for more information.



ASME SECTION VIII

Model	Nominal HP		Dimensions (in)							Connections (in)				
	Clean	Fouled	A	B	C	D	E	G	L	RI (ods)	RO (ods)	FO & FI (npt)	S (npt)	Holding Capacity forR404A (lbs)
HEC-2	2.5	2	22	2	2	5	2	1-1/2	28	5/8	1/2	3/4	3/8	13
HEC-3	3.9	3.5	22	2	1.81	6	2	1-7/8	28	7/8	5/8	3/8	3/8	16
HEC-5	8.28	5.06	21-1/2	1-1/2	2-1/2	6-5/8	2	2	28	1-1/8	5/8	1	1/2	17.80
HEC-7	8.40	7.42	27-1/2	1-1/2	2-1/2	6-5/8	2	2	33-1/2	1-3/8	7/8	1-1/4	1/2	21.36
HEC-10	11.30	9.70	27-1/2	1-1/2	2-1/2	6-5/8	2	2	33-1/2	1-3/8	7/8	1-1/4	1/2	20.47
HEC-15	17.55	14.78	27	1-1/2	3	8-5/8	2	2	33-1/2	1-5/8	1-1/8	2	1/2	35.60
HEC-20	32.87	19.98	45	1-1/2	3	8-5/8	2	2	51-1/2	1-5/8	1-1/8	2	1/2	56.07
HEC-25	34.21	23.04	45	1-1/2	3	8-5/8	2	2	51-1/2	2-1/8	1-3/8	2	1/2	54.29
HEC-30	41.50	29.20	45	2	3	10-3/4	3	2-1/8	53	2-1/8	1-3/8	2-1/2	1/2	90.78
HEC-40	48.20	39.91	57	2	3	10-3/4	3	2-1/8	65	2-1/8	1-3/8	3	1/2	113.03
HEC-50	63.47	52.55	57	2	3	10-3/4	3	2-1/8	65	2-5/8	1-5/8	3	1/2	105.02
HEC-60	82.02	59.84	56-1/2	2-5/8	3-1/2	12-3/4	3-1/2	2-3/4	66-3/4	2-5/8	1-5/8	4	1/2	156.64



DX Chillers

The internal design of our DX Chiller Barrels have been engineered for optimum heat transfer. The construction utilizes enhanced copper tubing for increased surface area and better heat transfer, without increasing the overall size. In addition, baffles are placed within our chillers to direct the water flow for maximum cooling effect. Externally, the entire chiller is wrapped in ¾" insulation for maximum temperature retention after being powder coated for enhanced corrosion resistance.

Custom models are also available.

Consult Westermeyer Industries for more information.

ASME SECTION VIII

SINGLE CIRCUIT													
Model	Nominal HP					Dimensions (in)		Connections				Working Pressure	
	Clean	Fouled	A	B	C	D	L	RI (ODS)	RO (ODS)	FI/FO (NPT)	S (NPT)	Shell Side	Tube Side
DX5-1	6.1	4.7	2-5/8	33-3/8	36	4	41	5/8	1-1/8	1-/4	1/2	600	300
DX6-1	8.5	7	2-7/16	33-9/16	36	4	41	5/8	1-1/8	1-1/2	1/2	600	300
DX7.5-1	9.8	7.6	2-7/16	33-9/16	36	4	41	7/8	1-5/8	1-1/2	1/2	600	300
DX10-1	12.1	11.3	2-13/16	33-3/16	36	5	42-1/2	7/8	1-5/8	2	1/2	600	300
DX12-1	15.9	13.2	2-15/16	33-3/16	36	6	41-3/4	7/8	1-5/8	2	1/2	450	250
DX15-1	20	16.3	3-3/16	32-13/16	36	6	41-3/4	1-1/8	2-1/8	2-1/2	1/2	450	250
DX20-1	24.1	19.6	3-1/2	32-1/2	36	6	41-3/4	1-1/8	2-1/8	3	1/2	450	250
DX25-1	27.1	22.4	3-1/2	32-1/2	36	6	41-3/4	1-1/8	2-5/8	3	1/2	450	250
DX30-1	32.5	29.8	4-1/4	67-3/4	72	6-5/8	81-3/4	1-1/8	2-5/8	3	3/4	150	300
DX40-1	42.9	40.2	4-1/2	67-1/2	72	8-5/8	81-3/4	1-3/8	2-5/8	3	3/4	150	300
DX50-1	53.9	50.3	4-3/4	67-1/4	72	8-5/8	81-3/4	1-3/8	3-1/8	4" flange	3/4	150	300
DX60-1	64.5	60.1	4-3/4	79-1/4	84	8-5/8	93-3/4	1-5/8	3-1/8	4" flange	3/4	150	300
DX75-1	80.5	74.8	5-1/2	78-1/2	84	8-5/8	93-3/4	2-1/8	3-1/8	5" flange	3/4	150	300

DUAL CIRCUIT													
Model	Nominal HP					Dimensions (in)		Connections				Working Pressure	
	Clean	Fouled	A	B	C	D	L	RI (ODS)	RO (ODS)	FI/FO (NPT)	S (NPT)	Shell Side	Tube Side
DX12-2	15.9	13.2	2-15/16	33-3/16	36	6	41-3/4	5/8	1-1/8	2	1/2	450	250
DX15-2	20	16.3	3-3/16	32-13/16	36	6	41-3/4	7/8	1-5/8	2-1/2	1/2	450	250
DX20-2	24.1	19.6	3-1/2	32-1/2	36	6	41-3/4	7/8	1-5/8	3	1/2	450	250
DX25-2	27.1	22.4	3-1/2	32-1/2	36	6	41-3/4	7/8	1-5/8	3	1/2	450	250
DX30-2	32.5	29.8	4-1/4	67-3/4	72	6-5/8	81-3/4	7/8	1-5/8	3	3/4	150	300
DX40-2	42.9	40.2	4-1/2	67-1/2	72	8-5/8	81-3/4	1-1/8	2-1/8	3	3/4	150	300
DX50-2	53.9	50.3	4-3/4	67-1/4	72	8-5/8	81-3/4	1-1/8	2-1/8	4" flange	3/4	150	300
DX60-2	64.5	60.1	4-3/4	79-1/4	84	8-5/8	93-3/4	1-1/8	2-5/8	4" flange	3/4	150	300
DX75-2	80.5	74.8	5-1/2	78-1/2	84	8-5/8	93-3/4	1-3/8	2-5/8	5" flange	3/4	150	300
DX100-2	125	109.6	5-3/4	78-1/4	84	10-3/4	94-7/8	1-3/8	3-1/8	5" flange	3/4	150	225
DX120-2	136.5	120.3	6-3/8	77-5/8	84	12-3/4	94-7/8	1-3/8	3-1/8	6" flange	3/4	150	225
DX150-2	172.9	152.3	6-3/8	77-5/8	84	14	96-5/8	1-3/8	2-5/8	6" flange	3/4	150	225
DX175-2	198.1	174.8	6-3/8	77-5/8	84	14	96-5/8	1-3/8	2-5/8	6" flange	3/4	150	225

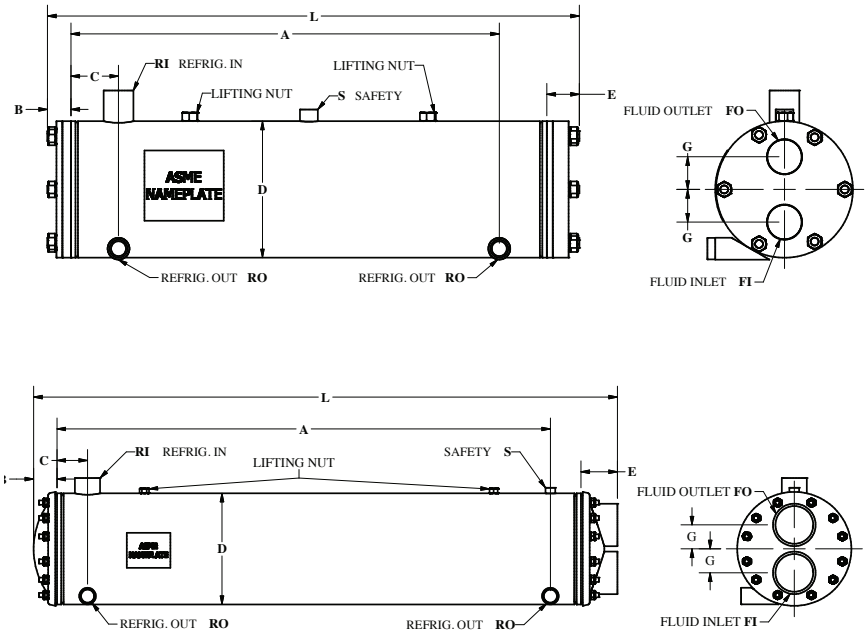
Marine Condensers

This new line of HEM marine condensers are high capacity and cleanable. The enhanced cupronickel tubing provides extra heat transfer surface, thereby reducing the overall size of the condenser. Both the tube sheet and water plates are made of epoxy coated cupronickel to provide superior resistance to saltwater abrasion. A sacrificial zinc anode is available upon request.

Custom models are also available. Working pressure is 400 psig refrigerant side / 150 psig fluid side.

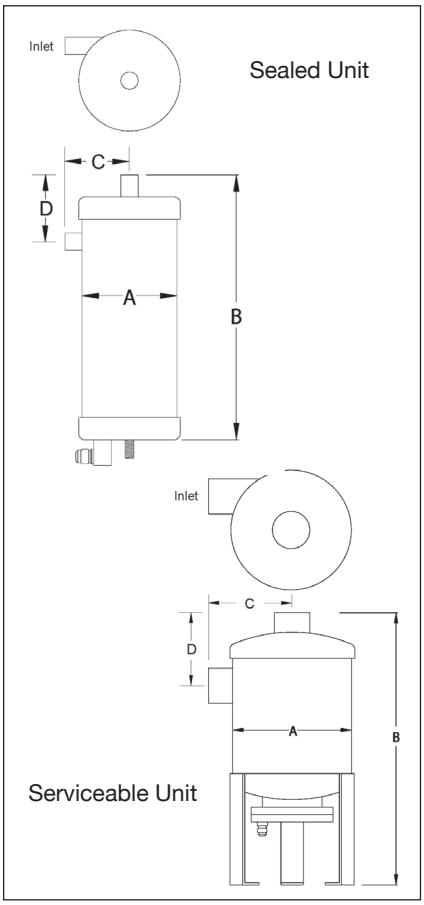
Consult Westermeyer Industries for more information.

ASME SECTION VIII



Model	Nominal HP		Dimensions (in)							Connections (in)				
	Clean	Fouled	A	B	C	D	E	G	L	RI (ods)	RO (ods)	FO & FI (npt)	S (npt)	Holding Capacity for R404A (lbs)
HEM-100	1.30	1.00	18	1-5/8	1-5/8	6	2	1-7/8	21-5/8	5/8	1/2	1/2	3/8	14
HEM-200	2.60	2.00	18	1-5/8	1-5/8	6	2	1-7/8	21-5/8	7/8	5/8	1/2	3/8	12
HEM-300	4.60	3.30	18	2	1-3/4	6-5/8	2	1	21-3/4	7/8	5/8	3/4	3/8	14
HEM-500	6.00	4.60	18-1/8	2-1/8	1-3/4	6-5/8	2	1	21-3/4	1-1/8	5/8	3/4	3/8	15
HEM-750	9.50	6.70	30	2	2	6-5/8	2-1/4	2	34-1/4	1-3/8	7/8	1-1/4	3/8	24
HEM-1005	11.70	9.50	35	2	2	6-5/8	2-1/4	2	40-1/4	1-3/8	7/8	1-1/4	3/8	29
HEM-1500	19.90	15.80	36	2-1/2	2-1/4	8-5/8	2	2-1/8	40-1/4	1-5/8	1-1/8	2	1/2	49
HEM-2005	26.70	20.20	60	3	2-1/4	8-5/8	2-1/4	2-1/8	64-1/2	2-1/8	1-1/8	2	1/2	86
HEM-2505	33.10	25.90	60	3	2-1/4	8-5/8	2-1/4	2-1/8	64-1/2	2-1/8	1-3/8	2	1/2	79
HEM-3006	39.70	31.60	72	3	2-1/4	8-5/8	2-1/4	2	76-1/2	2-5/8	1-3/8	2/1/2	1/2	99
HEM-3305	44.40	32.60	59-1/2	3	2-1/4	10-3/4	2-3/4	2-1/8	65	2-5/8	1-3/8	2/1/2	1/2	133
HEM-4005	45.80	33.60	59-1/2	3	2-1/4	10-3/4	2-3/4	2-1/8	65	2-5/8	1-5/8	2/1/2	1/2	129
HEM-4505	57.70	44.20	71-1/2	3	2-1/4	10-3/4	2-3/4	2-1/8	77	2-5/8	1-5/8	2/1/2	1/2	160
HEM-5005	59.60	45.70	71-1/2	3	2-1/4	12-3/4	2-3/4	2-1/8	77	2-5/8	1-5/8	2/1/2	1/2	155
HEM-6505	71.00	58.20	72	3-1/2	2-3/8	12-3/4	4-1/4	2-3/4	78-1/2	3-1/8	2-1/8	4	1/2	225
HEM-7505	84.80	66.10	72	3-1/2	2-3/8	12-3/4	4-1/4	2-3/4	78-1/2	3-1/8	2-1/8	4	1/2	215
HEM-100 HP	132.20	99.80	120	3-1/2	6-5/8	12-3/4	6-5/8	-	133-1/2	3-1/8	2-1/8	"5"" mpt"	1/2	358
HEM-120HP	137.20	103.60	119	3-1/2	6-5/8	12-3/4	6-5/8	-	133-1/2	3-5/8	2-1/8	"5"" mpt"	1/2	344

Centrifugal Oil Separators
Maximum Working Pressure—450 psig



For refrigerants and conditions not listed, see our sizing calculator at www.westermeyerind.com or contact Westermeyer Industries for assistance.

Centrifugal Oil Separators

CRN OH11138.5C

Centrifugal oil separators are designed to remove large quantities of oil at a wide range of operating capacities. Field tests have shown these oil separators are up to 99% effective—even in high oil loading conditions. For screw compressor applications, a high pressure oil separator/reservoir **without internal float valve** must be used (see page 15).

Totally sealed and serviceable units are available. We recommend serviceable oil separators be used in supermarket and parallel compressor systems.

Select an oil separator based on the system's tonnage under normal operating conditions. This is the capacity or compressor(s) BTUs based on refrigerant gas at the saturated suction and condensing temperatures of the operating system. For optimum sizing, select an oil separator with a capacity closest to the system's load at evaporating temperature. Minimum tonnage is 30% of the rated capacity.

	Catalog Number	ODS Conn. Size	Dimensions				Max. Capacity in Tons of Refrigeration						Maximum Discharge (CFM)	Precharge Amount (oz.)
							R-134A		R-22		R-404A			
			A	B	C	D	-40°F	+40°F	-40°F	+40°F	-40°F	+40°F		
Sealed Units	OS4-04C	1/2	4"	13"	3"	3.5"	1	2	2	3	2	3	1.5	15
	OS4-05C	5/8	4"	15"	3"	3.5"	4	5	6	7	6	7	5	15
	OS4-07C	7/8	4"	17"	3"	4"	6	7	9	10	8	9	7.5	15
	OS4-11C	1-1/8	4"	19"	3"	4"	8	10	12	13	11	12	10	15
	OS6-13C	1-3/8	6"	15"	4.5"	5"	10	13	16	18	15	19	13	40
	OS6-15C	1-5/8	6"	17"	4.5"	5"	15	17	20	23	19	24	17	40
Serviceable Units	OS4-05FA*	5/8	4"	15"	3"	3.5"	4	5	6	7	6	7	5	25
	OS4-07FA*	7/8	4"	17"	3"	4"	6	7	9	10	8	9	7.5	25
	OS4-11FA*	1-1/8	4"	19"	3"	4"	8	10	12	13	11	12	10	25
	OS6-13F*	1-3/8	6"	22"	4.5"	5"	10	13	16	18	15	19	12	25
	OS6-15F*	1-5/8	6"	22"	4.5"	5"	15	17	20	23	19	24	17	25
	OS6-21F*	2-1/8	6"	22.38"	5.25"	5.88"	23	27	32	38	30	39	27	25
	OS8-21*	2-1/8	8"	24"	5.63"	6"	28	34	45	50	39	52	38	25
	OS8-25*	2-5/8	8.00	23.50	6.16	6.00	44	54	68	77	63	82	55	25
	OS10-25*	2-5/8	10"	27"	6.5"	6.5"	58	70	90	100	80	105	76	25
	OS12-31*	3-1/8	12.8"	30"	7.75"	9"	90	110	140	160	125	165	118	25

See page 18 for oil separator sizing information.
All capacities shown are based on 100°F condensing temperature. **450 psig maximum working pressure.**
* Replacement float assembly and gasket available for flanged oil separator (part number W1900-30). See page 35 for more information.

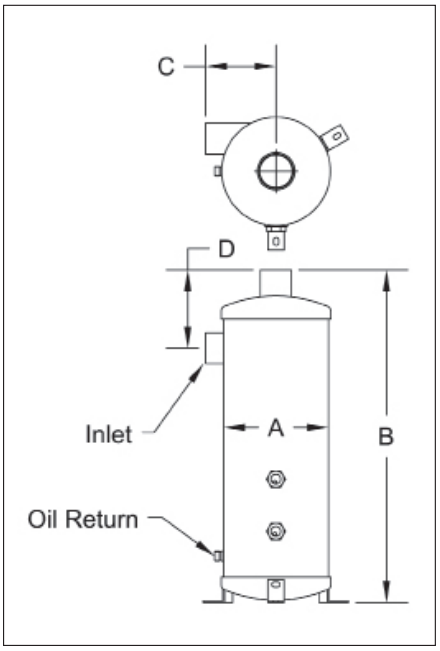
Centrifugal Oil Separators/Reservoirs

CRN OH11138.5C

This product is designed to remove large quantities of oil at a wide range of operating capacities. Field tests have shown these oil separators to be up to 99% effective—even in high oil loading conditions. **This separator/reservoir is particularly effective for use with screw compressor systems.**

The oil separator portion is divided from the reservoir by an internal baffle, which protects the oil in the reservoir from the turbulent action of the oil separator. Two sight glasses provide visual indication of the oil level. It is best to maintain the oil level between the two glasses. A 3/8" flare Rotolock valve is included for installation on the oil return port.

Select an oil separator based on the system's tonnage under normal operating conditions. This is the capacity or compressor(s) BTUs based on the refrigerant gas at the saturated suction and condensing temperatures of the operating system. For optimum sizing, select an oil separator with a capacity closest to the system's load at the evaporating temperature ( ). Minimum tonnage is 30% of the rated capacity.



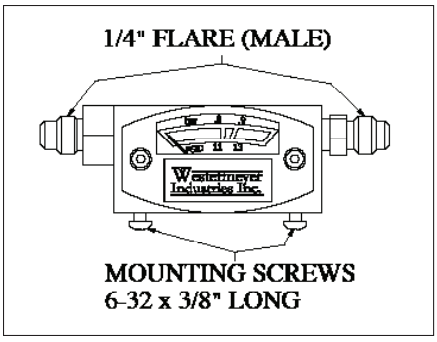
For refrigerants and conditions not listed, see our sizing calculator at www.westermeyerind.com or contact Westermeyer Industries for assistance.

Catalog Number	ODS Conn. Size	Dimensions				Max. Capacity in Tons of Refrigeration						Maximum Discharge (CFM)	Oil Capacity in Gallons
						R-134A		R-22		R-404A			
		A	B	C	D	-40°F	+40°F	-40°F	+40°F	-40°F	+40°F		
OS4-07RES	7/8"	4"	33"	3"	4"	6	7	9	10	8	9	7.5	2
OS4-11RES	1-1/8"	4"	33"	3"	4"	8	10	12	13	11	12	10	2
OS6-13RES	1-3/8"	6"	33.5"	4.38"	5"	10	13	16	18	15	19	12	1.50
OS6-15RES	1-5/8"	6"	33.5"	4.5"	5"	15	17	20	23	19	24	17	1.50
OS6-21RES	2-1/8"	6"	33.5"	5.25"	5.9"	23	27	32	38	30	39	27	1.50
OS8-21RES	2-1/8"	8"	25.5"	5.41"	6"	28	34	45	50	39	52	38	2.00
OS8-25RES	2-5/8	8	25.50	6.16	6	44	54	68	77	63	82	55	25
OS10-25RES	2-5/8"	10"	30"	6.34"	6.5"	58	70	90	100	80	105	76	2.50
OS10-31RES	3-1/8	10	30	7.5	6.5	90	110	140	160	125	165	118	2.50
OS12-31RES	3-1/8"	12.75"	30"	7.75"	9"	90	110	140	160	125	165	118	4.00

All capacities shown are based on 100° F condensing temperature. **450 psig maximum working pressure.**
Note: These oil separators must be used with an oil pressure reducing valve. The oil pressure will be the same as discharge pressure.

Coalescing Oil Separators

		Catalog Number	Figure	ODS Conn. Size	Dimensions				Min DCFM	Max DCFM	Replacement Filter		
					A	B	C	D					
Sealed Units	UL Listed	COS4-03	1	3/8	8.25	4	N/A	N/A	0.6	6	N/A	15	Precharge Amt. (oz.)
		COS4-04	1	1/2	8.38	4	N/A	N/A	0.6	6	N/A	15	
		COS4-05	1	5/8	10.56	4	N/A	N/A	1	10	N/A	15	
		COS4-07	1	7/8	10.88	4	N/A	N/A	1	10	N/A	15	
		COS4-11	2	1-1/8	17.38	4	N/A	N/A	2.5	25	N/A	15	
		COS4-13	2	1-3/8	17.38	4	N/A	N/A	2.5	25	N/A	15	
Serviceable Units	UL Listed	COS4-05F	3	5/8	16.25	4	N/A	6	1	10	90-050K	16	
		COS4-07F	3	7/8	16.25	4	N/A	6	1	10	90-050K	16	
		COS4-11F	3	1-1/8	20.63	4	N/A	10	2.5	25	90-051K	16	
		COS4-13F	3	1-3/8	20.63	4	N/A	10	2.5	25	90-051K	16	
		OS6-13FC*	4	1-3/8	29"	6"	5"	15"	1.4	14	90-016K	25	
		OS6-15FC*	4	1-5/8	29"	6"	5"	15"	1.4	14	90-016K	25	
		OS6-21FC*	4	2-1/8	29"	6"	5"	15"	1.4	14	90-016K	25	
		W-1902C*	4	2-1/8	32"	8"	5"	17"	2.1	21	90-016K	25	
		W-1903C-A*	4	2-5/8	38"	10"	5"	21"	4.0	40	90-020K	25	
	ASME	OS12-31C*	4	3-1/8	49"	12.75"	4"	12"	7.0	70	90-021K	25	
		OS14-31C*	4	3-1/8"	56"	14"	4"	14"	10	100	90-019K	25	
Separator/Reservoir	UL Listed	COS4-05FR	5	5/8	19.5	4	N/A	6	1	10	90-050K	77	Oil Capacity (gal.)
		COS4-07FR	5	7/8	19.5	4	N/A	6	1	10	90-050K	77	
		COS4-11FR	5	1-1/8	28.63	4	N/A	10	2.5	25	90-051K	109	
		COS4-13FR	5	1-3/8	28.63	4	N/A	10	2.5	25	90-051K	109	
		OS6-15FCR	6	1-5/8"	34"	6"	N/A	15"	1.4	14	90-016K	2	
		OS6-21FCR	6	2-1/8"	34"	6"	N/A	15"	1.4	14	90-016K	2	
		W-1902CR	6	2-1/8"	30"	8"	N/A	17"	2.1	21	90-016K	2	
		W-1903CR-A	6	2-5/8"	41"	10"	N/A	21"	4.0	40	90-020K	3.5	
	ASME	OS12-31CR	6	3-1/8"	41"	12.75"	N/A	12"	7.0	70	90-021K	5	
		OS14-31CR	6	3-1/8"	46"	14"	N/A	14"	10	100	90-019K	5	



Differential Pressure Gauge

Our DP-01 pressure differential gauge is used to indicate both visually and electronically when the filter element in a coalescing oil separator is contaminated and needs replaced. A contaminated filter affects both performance and efficiency of the oil separator itself, and the overall efficiency of the entire system. The gauge comes with ¼" flare male connectors that are installed in line between the inlet and outlet of the separator. The DP-01 is also supplied with wire leads to connect the switch to an alarm.

- ¼" male flare inlet/ outlet
- 24V AC/DC, 3A max. 60W max switch rating
- 12 psid switch setting
- Two 22 gauge wire leads, 12" long to connect to board
- Multi colored gauge face for easy visual inspection
- Supplied with two 6-32 mounting screws
- Aluminum body, stainless steel fittings & ceramic internals

Coalescing Oil Separator

CRN (OS12-31C) M5767.5C
CRN (OS12-31CR) M5767.5C
CRN (OS14-31CR) M05084.5CR1
CRN (OS14-31C) M05084.5CR1

Our coalescing oil separators are designed to replace other models in the industry, and are engineered with the service company in mind. The filter is removable through the top flange assembly. Our flange/cover plate arrangement is easy to remove, which eliminates the need for additional clearance during installation.

All coalescing oil separators use a borosilicate glass filter element, which is designed to remove small oil particles and system contaminants. Therefore, it is important to monitor pressure drop for new installations. Once the pressure differential exceeds 15 psig, it is recommended to replace the filter.

To correctly select the size of oil separator for the application, use the selection chart on page 15, which is based on nominal evaporating and condensing temperatures.

For refrigerants and conditions not listed, see our sizing calculator at www.westermeyerind.com or contact Westermeyer Industries for assistance.

Figure 1

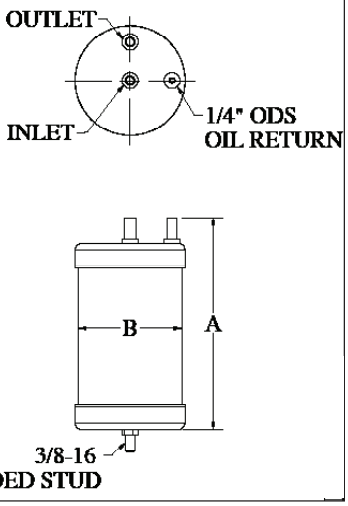


Figure 2

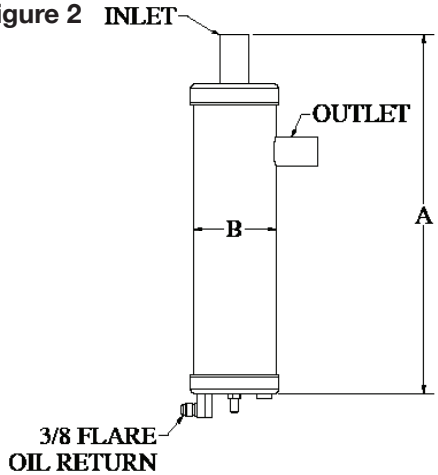


Figure 3

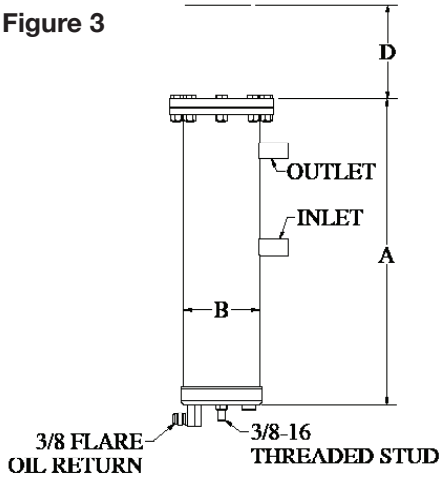


Figure 4

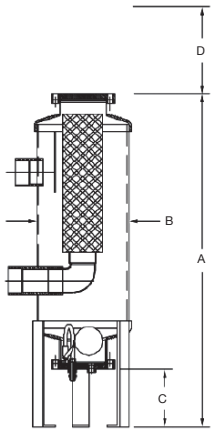


Figure 5

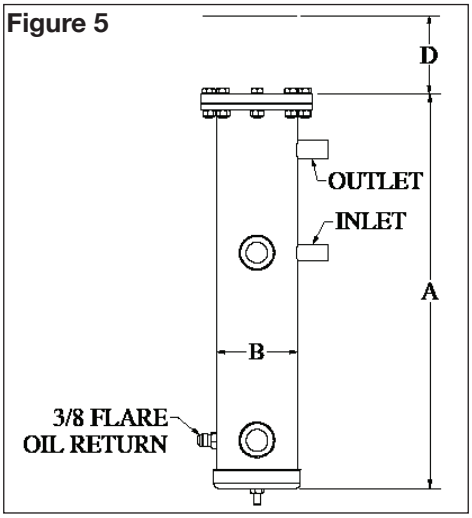
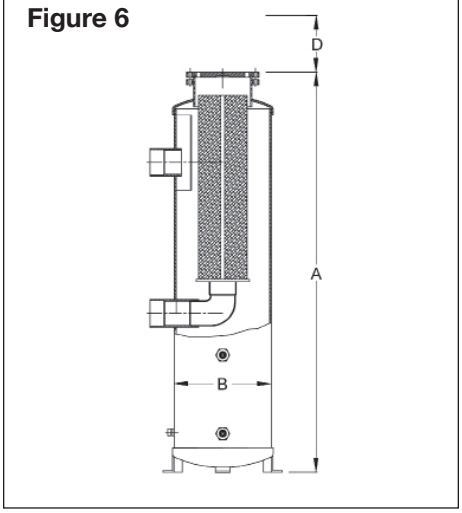
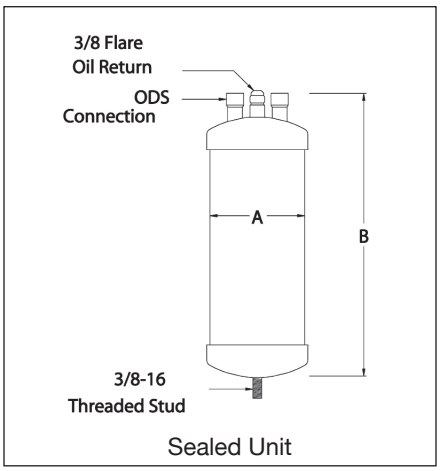


Figure 6

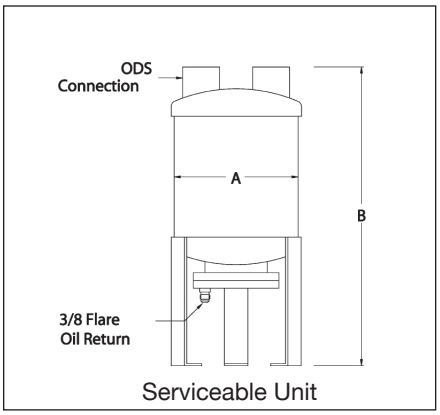


See page 18 for oil separator sizing information.
*Replacement float assembly and gasket available for flanged oil separator (part number W1900-30). See page 35 for more information.

Conventional Oil Separators
Maximum Working Pressure—450 psig



Sealed Unit



Serviceable Unit

Conventional Oil Separators

Our standard screen style separators remove oil from refrigerant gas using three methods: velocity reduction, filtering through screens and baffling. All separated oil is then returned to the compressor crankcase or reservoir by an internal oil float valve.

Select an oil separator based on the system's tonnage under normal operating conditions. This is the capacity or compressor(s) BTUs based on the refrigerant gas at the saturated suction and condensing temperatures of the operating system. For selection purposes, select an oil separator with the nearest capacity to the system's load at the evaporating temperature.

For refrigerants and conditions not listed, see our sizing calculator at www.westermeyerind.com or contact Westermeyer Industries for assistance.

	Catalog Number	ODSConn. Size	Dimensions		Max. Capacity in Tons of Refrigeration						Precharge Amount (oz.)	Min DCFM	Max DCFM
					R-134A		R-22		R-404A				
			A	B	-40°F	+40°F	-40°F	+40°F	-40°F	+40°F			
Sealed Units	OS4-02	1/4	4"	8.25"	0.5	0.75	0.75	1.0	0.75	1.0	15	0.20	0.60
	OS4-03	3/8	4"	8.25"	0.75	1.0	1.0	1.5	1.0	1.5	15	0.26	0.80
	OS4-04	1/2	4"	10.25"	1.0	1.5	1.5	2.0	1.5	2.0	15	0.50	1.50
	OS4-05	5/8	4"	14.25"	3.0	4.0	4.5	5.5	4.0	5.5	15	1.50	5.00
	OS4-07	7/8	4"	17.75"	4.5	5.5	7.0	8.0	6.5	8.5	15	2.25	7.50
	OS4-11	1-1/8	4"	21.00"	6.0	7.5	9.0	10.5	8.5	11	15	3.00	10.00
	OS4-13	1-3/8	4"	21.00"	8.0	9.5	10.5	13.5	10.5	14	15	3.90	13.00
	OS6-11	1-1/8	6"	15.38"	6.0	7.5	9.0	10.5	8.5	11	40	3.00	10.00
	OS6-13	1-3/8	6"	15.38"	8.0	9.5	10.5	13.5	10.5	14	40	3.90	13.00
	OS6-15	1-5/8	6"	18.63"	11	13	16	18	15	19	40	5.10	17.00
	OS6-21	2-1/8	6"	18.63"	17	22	25	30	29	34	40	6.00	20.00
Serviceable Units	W-1901*	1-5/8	8"	21.00"	12	15	20	24	21	24	25	5.10	17.00
	W-1902*	2-1/8	8"	21.00"	20	25	30	35	34	39	25	8.10	27.00
	W-1903*	2-5/8	10"	21.5"	30	40	50	65	59	69	25	15.00	50.00
	W-1904*	3-1/8	12.8"	25.75"	50	60	75	90	79	99	25	21.00	70.00

All capacities shown are based on 100°F condensing temperature.
*Replacement float assembly and gasket available for flanged oil separator (part number W1900-30). See page 35 for more information.

Example of Use

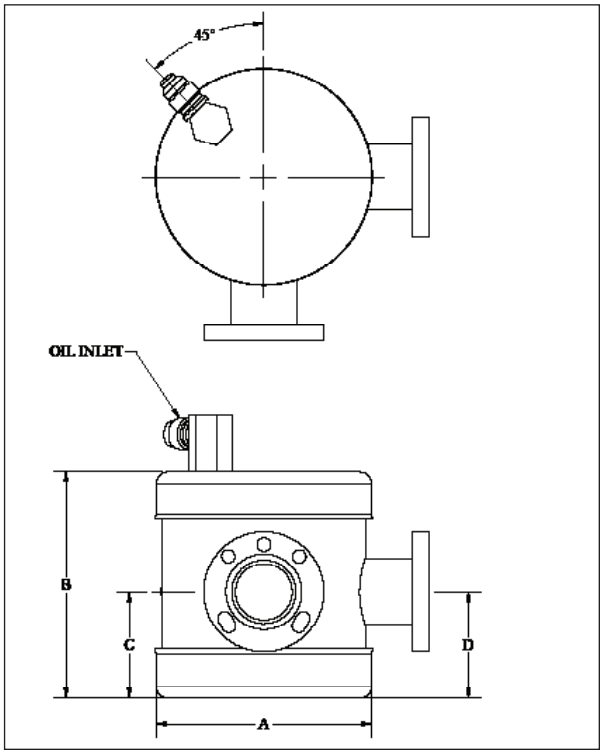
Find the DCFM value for the refrigerant being used at the appropriate evaporating and condensing temperature. Then, multiply this value by the system tonnage at the operating conditions. Use this value to select an oil separator with the nearest maximum DCFM value to the calculated DCFM.

i.e. R-134A, 20 Tons @ 20F/110F = 1.02 DCFM. Total DCFM = 20.40 (20 tons x 1.02 DCFM)

For refrigerants and conditions not listed, see our sizing calculator at www.westermeyerind.com or contact Westermeyer Industries for assistance.

		Evaporating Temperature								
		-40°F	**-30°F**	**-20°F**	**-10°F**	**0°F**	**10°F**	**20°F**	**30°F**	**40°F**
R-134A Condensing Temperature	**80°F**	1.60	1.56	1.52	1.48	1.45	1.42	1.39	1.36	1.33
	90°F	1.44	1.40	1.37	1.33	1.30	1.27	1.24	1.22	1.19
	100°F	1.31	1.27	1.24	1.21	1.17	1.15	1.12	1.09	1.07
	110°F	1.20	1.17	1.13	1.10	1.07	1.04	1.02	0.99	0.97
	120°F	1.11	1.08	1.04	1.01	0.98	0.95	0.93	0.91	0.88
R-22 Condensing Temperature	**80°F**	1.03	1.01	1.00	0.98	0.97	0.96	0.94	0.93	0.92
	90°F	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83
	100°F	0.84	0.83	0.81	0.80	0.79	0.78	0.77	0.76	0.75
	110°F	0.77	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68
	120°F	0.71	0.69	0.68	0.67	0.65	0.64	0.63	0.62	0.61
R-404A Condensing Temperature	**80°F**	1.02	1.00	0.96	0.94	0.92	0.89	0.87	0.85	0.83
	90°F	0.95	0.92	0.89	0.86	0.84	0.81	0.80	0.78	0.76
	100°F	0.88	0.85	0.81	0.79	0.76	0.74	0.72	0.70	0.68
	110°F	0.83	0.80	0.77	0.74	0.71	0.69	0.67	0.65	0.63
	120°F	0.77	0.75	0.71	0.68	0.66	0.63	0.61	0.59	0.58
R-410A Condensing Temperature	**80°F**					0.62	0.62	0.61	0.60	0.60
	90°F					0.56	0.55	0.55	0.54	0.53
	100°F					0.50	0.50	0.49	0.49	0.48
	110°F					0.46	0.45	0.44	0.44	0.43
	120°F					0.42	0.41	0.40	0.40	0.39
CO_2 Condensing Temperature	**20°F**	0.37		0.37		0.37				
	40°F	0.30		0.30		0.30				
	60°F	0.23		0.23		0.23				

Oil Regulators—Universal Flange
Maximum Working Pressure—450 and 675 psig



Oil Regulators
Universal Flange

Oil regulators control the oil level in the compressor crankcase, which is accomplished through the use of a float-operated valve.

The RG-4 is also capable of mounting directly to both Copeland and Bitzer compressors with our universal flange, eliminating the need for adapter kits and reducing installation cost. For other compressor configurations, adapter kits can be used to convert the universal mounting to non-standard compressor mountings.

The oil feed connection is a standard 3/8" SAE flare. A 1/4" SAE flare oil equalization connection is also provided. It is placed at the 1/2 glass range. We also recommend to filter oil prior to reaching the regulator to prevent debris or contaminants from obstructing the float valve. Our oil filter (part number F4-01) can be used to accomplish this filtration.

Features

- Universal mounting flange (Copeland and Bitzer)
- Powder paint finish
- Factory set at 1/2 glass

Catalog Number	Operating Differential	Dimensions				Sight Glass Level	Max. Working Pressure
		A	B	C	D		
RG-4	5-90 psig	4.00"	4.50"	2.13"	2.13"	Adjustable	450 psig
RG-4F	5-30 psig	4.00"	4.50"	2.13"	2.13"	Fixed	450 psig
RGH-4F	5-30 psig	4.00"	4.50"	2.13"	2.13"	Fixed	675 psig

Oil Reservoirs

CRN OH11138.5C

Oil reservoirs are designed to hold excess oil in parallel compressor systems. The oil is a result of varying system loads and defrost cycles. Install the oil reservoir between the oil separator and oil regulators. **There must be a vent valve installed on the reservoir to allow for proper oil pressure.**

The oil reservoir includes the following connections:

- 3/4"-16 spud connection for 3/8" flare swivel valves
- 3/8" flare connection for pressure vent valve

Each reservoir is supplied with two 3/8" flare swivel valves. All models are manufactured with sight glasses for oil level viewing.

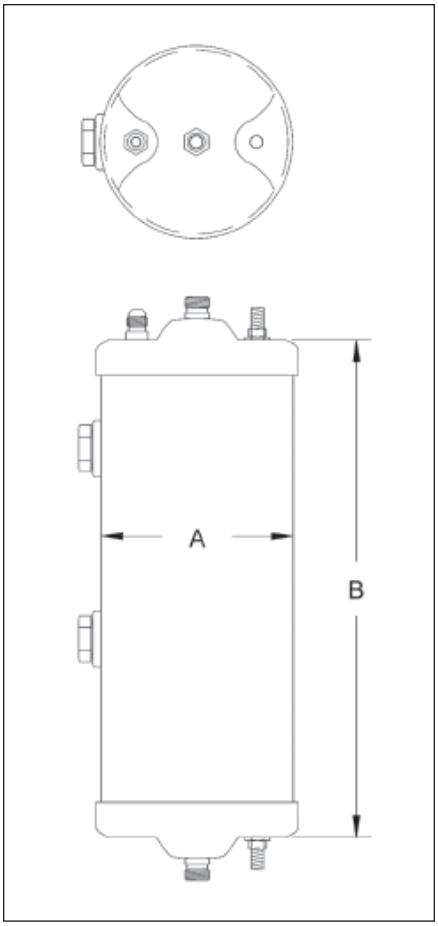
Selection of the oil reservoir size is a matter of individual preference:

- Up to 4 compressors—Use the 2 gallon reservoir
- 4 to 6 compressors—Use the 3 gallon reservoir
- 6 or more compressors—Use the 4 gallon reservoir

These are general guidelines and should be verified by the systems' manufacturer or engineer. For systems with extremely long line runs, it is always best to use the 4 gallon model.

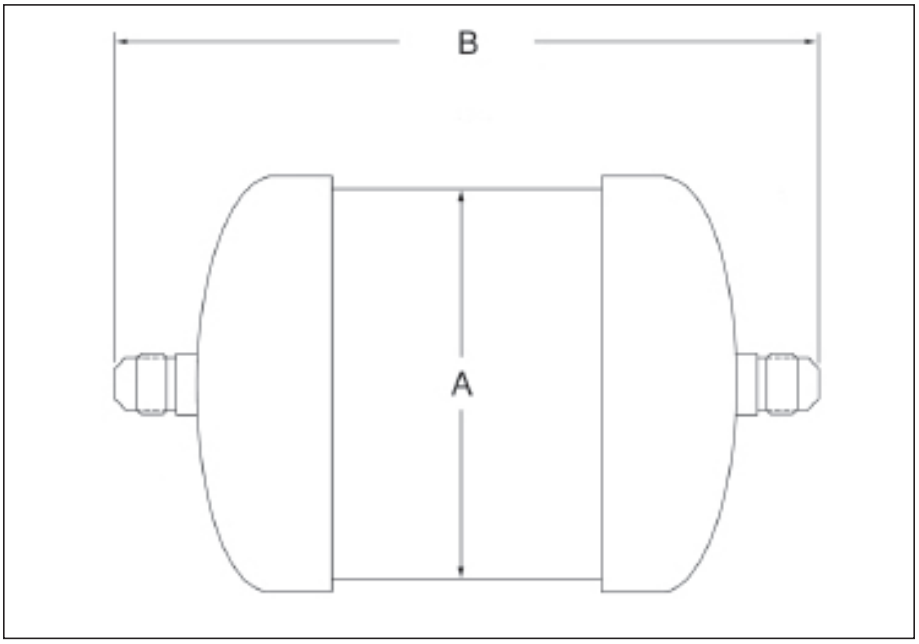
Features

- Welded and brazed design for higher strength
- Nitrogen tested for cleanliness
- Removable swivel valves
- Powder paint finish
- 450 psig maximum working pressure



Catalog Number	Capacity (gallons)	Number of Glasses	Dimensions	
			A	B
OR6-2	2	2	6"	15.5"
OR6-3	3	2	6"	24.5"
OR6-4	4	3	6"	33.5"

Oil Filters
Maximum Working Pressure—450 psig



Catalog Number	Connection Type	Dimensions	
		A	B
F3-01	3/8" flare	3"	7.50"
F3-02	3/4"-16 spud	3"	7.00"
F4-01	3/8" flare	4"	7.50"
F4-02	3/4"-16 spud	4"	7.00"

Oil Filters

Oil filters should always be used in conjunction with any oil control system. The filter ensures refrigeration oil is clean of any foreign matter that may obstruct float valves in oil regulators and oil separators. Our filters are designed to be a low pressure drop filter, while remaining effective at removing particulate matter. The F3-01 and F3-02 models are designed using XH-9 desiccant for removal of moisture in POE oils and contaminants.

Filter Specifications

- 4 micron retention
- 99.5% efficient at removing 4 micron particles and larger
- 330 square inches of filtering surface area
- 8 cubic inches of XH-9 desiccant **(models F3-01 and F3-02 only)**
- Suitable for halocarbon refrigerants and all oil types
- Replace at 15 psig pressure drop
- 3/8" flare and 3/4"-16 connections offered **(use swivel valve for 3/4"-16 connection)**

F3-02 & F4-02 Shut-off Valve

If you need a shut-off valve, we recommend a 3/8" flare Rotolock valve with gasket (requires 2 valves). See page 39.

Features

- Welded and brazed design for higher strength
- Nitrogen tested for cleanliness
- Good for all oil types
- Powder paint finish
- 450 psig maximum working pressure

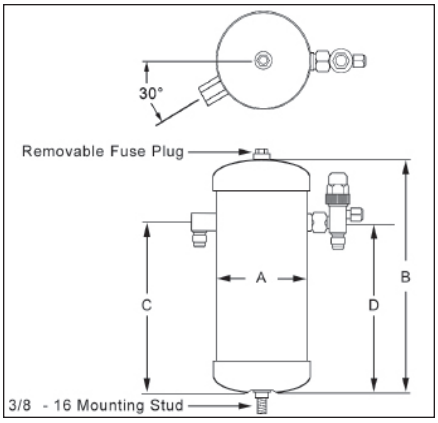
Liquid Receivers

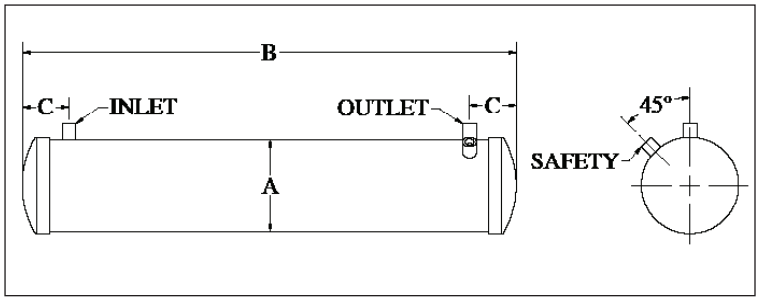
Liquid receivers are designed to hold excess refrigerant between the condenser and expansion device. Our receivers are designed with liquid capacities in accordance with ASHRAE standards. All catalog low pressure receivers (450 psig) include a swivel valve. Receivers can also be modified to meet your specific requirements. Contact us for consultation and quotation.

Features

- Welded and brazed design for higher strength
- Nitrogen tested for cleanliness
- Removable swivel valves
- Powder paint finish
- Removable 362°F fusible plug—part number 110-001
- 450 psig maximum working pressure

Consult Westermeyer Industries for custom sizes, including horizontal receivers.

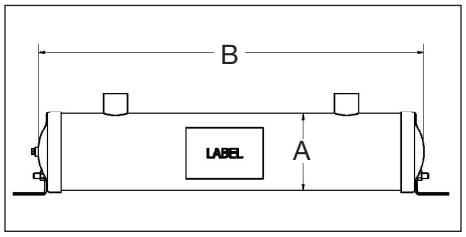


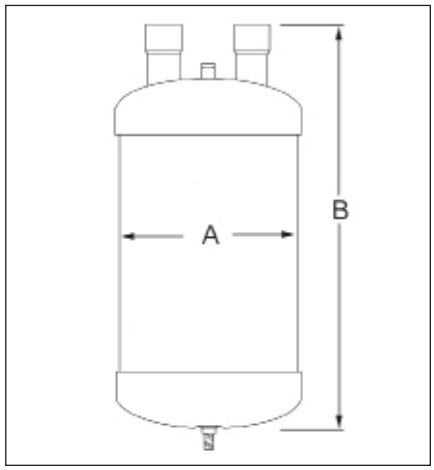


Catalog Number	Dimensions				Inlet	Outlet	Holding Capacity (lbs of R-22)	Maximum Working Pressure
	A	B	C	D				
R3-01	3"	10"	7.00"	7.00"	1/4" FLARE VALVE	1/4" FLARE VALVE	2.5	450 psig
R4-01	4"	10"	7.25"	7.25"	3/8" FLARE VALVE	3/8" FLARE VALVE	4.25	450 psig
R5-01	5"	10"	6.75"	6.75"	3/8" FLARE VALVE	3/8" FLARE VALVE	6.5	450 psig
R6-01	6"	12"	8.00"	8.00"	3/8" FLARE VALVE	3/8" FLARE VALVE	11.5	450 psig
R6-02	6"	18"	15.00"	15.00"	1/2" FLARE VALVE	1/2" FLARE VALVE	17.25	450 psig
R6-03*	6"	24"	33	15.00"	1/2" FLARE VALVE	1/2" FLARE VALVE	23.25	450 psig
R5-01HZ	5	25	25	25	5/8" ODS	5/8" ODS	18	450 psig
R5-01HZA	5	33	33	33	5/8" ODS	5/8" ODS	24	450 psig
R6-02HZ	6	27	27	27	5/8" ODS	5/8" ODS	29	450 psig
R6-03HZ	6	33	33	33	5/8" ODS	5/8" ODS	35	450 psig
R5-01HZV	5	25	25	25	5/8" ODS VALVE	5/8" ODS VALVE	18	450 psig
R5-01HZAV	5	33	33	33	5/8" ODS VALVE	5/8" ODS VALVE	24	450 psig
R6-02HZV	6	27	27	27	5/8" ODS VALVE	5/8" ODS VALVE	29	450 psig
R6-03HZV	6	33	33	33	5/8" ODS VALVE	5/8" ODS VALVE	35	450 psig

* R6-03 supplied with three mounting legs instead of mounting stud.
All receiver pump-down capacities are calculated at 90% of receiver volume and 90°F. For R-134A, use the R-22 capacity. For R-404A, multiply R-22 capacity by .90.

Accumulators
Maximum Working Pressure—450 psig





Accumulators

Suction line accumulators are designed to act as a temporary holding vessel between the outlet of the evaporator and the inlet of the compressor. During flood back conditions, the accumulator traps the liquid charge and allows it to be evaporated and fed to the compressor at a controlled rate. The internal U-tube includes an orifice, which ensures proper metering of the oil back to the compressor. The accumulator should not be sized for less than 50% of the total system charge. Accumulator capacities below are rated at a 1 psig drop, which facilitates proper oil return. The minimum capacity is the lowest amount that will ensure proper oil return.

For refrigerants not listed, see our online sizing calculator or contact Westermeyer Industries for assistance.

Features

- Nitrogen tested for cleanliness
- Nickel plated connections
- Screened orifice for proper oil return
- Powder paint finish
- 450 psig maximum working pressure

	Catalog Number	Heatpump Catalog Number	ODS Conn. Size	Dims.		Recommended Tons of Refrigeration at Evaporator Temperature °F												Holding Cap. (lbs of R-22)
						R-134A				R-22				R-404A				
				A	B	-40°F Min / Max		+40°F Min / Max		-40°F Min / Max		+40°F Min / Max		-40°F Min / Max		+40°F Min / Max		
Verical	A3-04	A3-04HP	1/2	3"	10"	0.05	0.09	0.15	0.50	0.08	0.19	0.18	0.90	0.05	0.15	0.15	0.80	2
	A4-04	A4-04HP	1/2	4"	10"	0.05	0.09	0.15	0.50	0.08	0.19	0.18	0.90	0.05	0.15	0.15	0.80	4
	A4-05	A4-05HP	5/8	4"	10"	0.06	0.15	0.15	0.90	0.10	0.35	0.20	2.00	0.08	0.25	0.15	1.60	4
	A4-06	A4-06HP	3/4	4"	10"	0.07	0.25	0.15	1.65	0.12	0.60	0.25	3.00	0.12	0.50	0.25	2.90	4
	A4-06B	A4-06BHP	3/4	4	10.63	0.07	0.25	0.15	1.65	0.12	0.60	0.25	3.00	0.12	0.50	0.25	2.90	4
	A5-07	A5-07HP	7/8	5"	10"	0.15	0.35	0.35	2.30	0.28	0.90	0.55	4.00	0.28	0.70	0.55	4.00	5
	A5-07F	A5-07FHP	7/8	5	13	0.15	0.35	0.35	2.30	0.28	0.90	0.55	4.00	0.28	0.70	0.55	4.00	8
	A6-11	A6-11HP	1-1/8	6"	18.75	0.18	0.80	0.50	4.40	0.40	1.80	0.80	9.00	0.40	1.40	0.80	9.00	16
	A6-11AE	A6-11AEHP	1-1/8	6	15	0.18	0.80	0.50	4.40	0.40	1.80	0.80	0.90	0.40	1.40	0.80	9.00	14
	A6-13	A6-13HP	1-3/8	6"	23"	0.30	1.30	2.0	11.00	0.50	2.8	3.00	15.40	0.50	2.70	3.20	16.50	20
	A6-13Z	A6-13ZHP	1-3/8	6	20.25	0.30	1.30	2.00	11.00	0.50	2.80	3.00	15.40	0.50	2.70	3.20	16.50	19
	A6-15	A6-15HP	1-5/8	6"	23"	0.50	2.40	3.70	19.30	0.90	4.7	5.00	27.00	.9	4.50	5.5	29.00	20
	A6-15R	A6-15RHP	1-5/8	6	24.75	0.50	2.40	3.70	19.30	0.90	4.70	5.00	27.00	0.90	4.50	5.50	29.00	23
Horizontal	A6-11HZ	-	1-1/8	6	16.5	0.18	0.80	0.50	4.40	0.40	1.80	0.80	9.00	0.40	1.40	0.80	9.00	16
	A6-13HZ	-	1-3/8	6	22.5	0.30	1.30	2.00	11.00	0.50	2.80	3.00	15.40	0.50	2.70	3.20	16.50	20
	A6-15HZB	-	1-5/8	6	30	0.50	2.40	3.70	19.30	0.90	4.70	5.00	27.00	0.90	4.50	5.50	29.00	26
	A6-15HZC	-	2-1/8	6	48	0.80	4.60	6.20	34.00	2.00	12.00	10.00	60.00	2.00	10.00	12.00	65.00	44

Please see pages 24-27 for more accumulators. For holding capacities of R-134A multiply the R-22 capacity by 1.05. For R-404A multiply by .90.

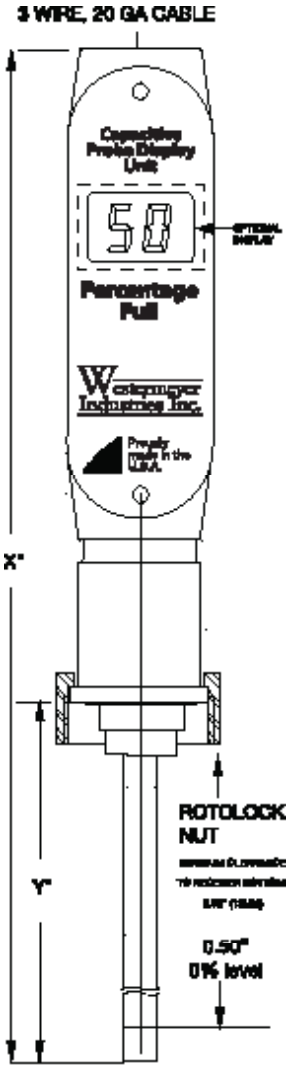
Level Transducer Probe

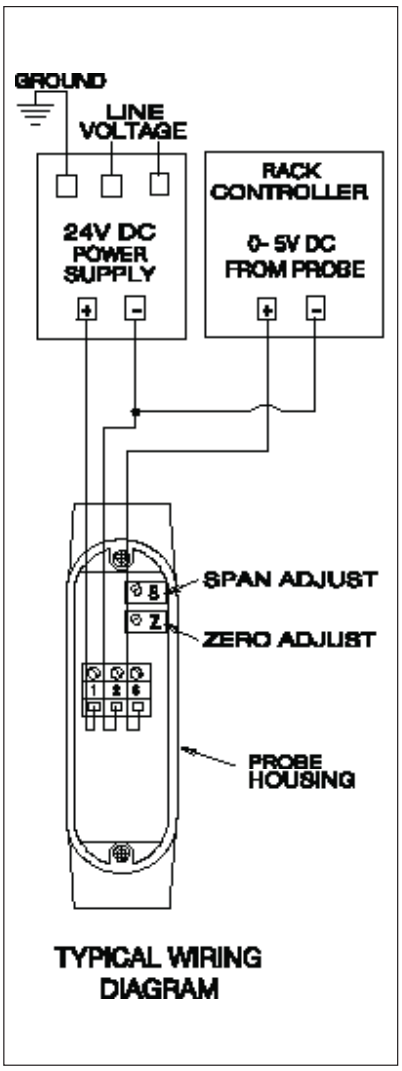
The level transducer probes (LP) are made for monitoring refrigerant levels in vertical or horizontal receivers. The probe operates with capacitance to provide a continuous level reading. The electronic circuit provides an analog signal that is proportional to the refrigerant level. This signal is provided as a 0-5 vdc output. This signal is commonly used with supermarket rack controllers, PLCs and other types of controlling devices that will accept the 0-5 vdc output.

The probe is threaded directly into the receiver by the use of a 3/4" NPT coupling or roto lock. The probe has no moving parts and uses 24 vdc as the
input voltage.

Features:

- 800 psi working pressure
- 10-24v DC Supply Voltage
- 0-5v DC Output Voltage
- Ambient Temperature Range: 32°F (0°C) to 125°F (+52°C)
- Refrigerant Temperature Range: -40°F (-40°F) to 158°F (+70°C)
- Suitable for use with R-22, R-134A, R-404A, R-507, R-410A and other compatible refrigerants
- 3/4" NPT or 1-1/4 - 12 Rotolock connection available
- Optional display available





Ordering

Westermeyer Industries custom manufactures every probe to your specifications. To order, state the required length in inches as the part number with the appropriate suffix to designate optional Rotolock and/or display.

Sample Part # = **LP#-60RSD- 16- R134A**

Prefixes:
LP0 = 0v-5v
LP1 = 1v-6v
LP4 = 4-20ma

Probe Length:
= Inches **

****Special Note****
All lengths outside 12" - 84" will be dealt with as custom.

Fitting Style:
3/4" NPT = **P**
Roto-Lok = **R**
Roto Standtube = **RS**
NPT Standtube = **PS**
Standtube = **S**

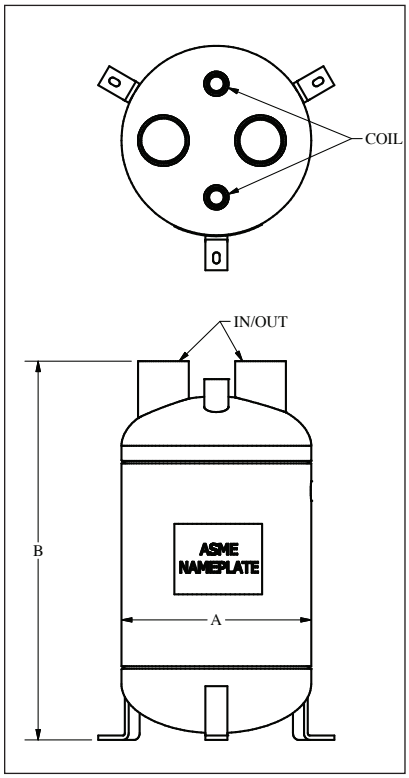
Display Option:
with Display = **D**

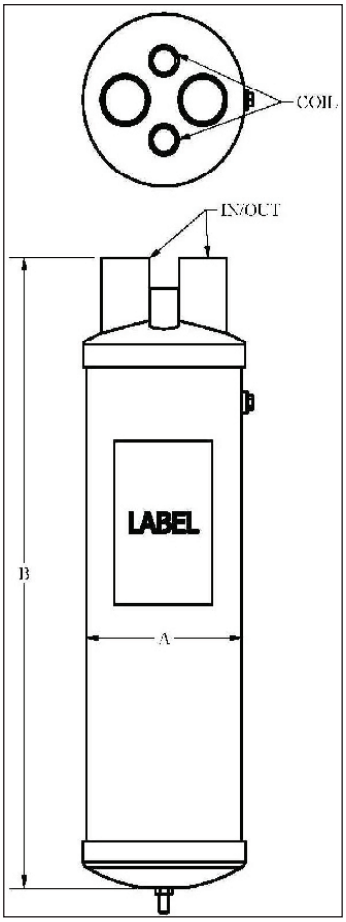
Tank Nominal Size:
6 / 6.5 / 8 / 10
12 / 14 / 16
18 / 20 / 22 / 24

Refrigerant/Oil:
R12 POE
R22 Mineral
R134A Alkybenzene
R404A
R407A
R507
All others are available.

Note:
Stand-alone probes will come pre-adjusted for 0% and 100%. All other probes will have approximate settings for 0% & 100%.

Ordering examples, LP-60P is a 60" probe with a 3/4" NPT connection; LP-60R is a 60" probe with Rotolock; LP-60RD is a 60" probe with both Rotolock and display options.





Vertical Heat Exchangers Accumulators

Heat exchange accumulators provide an internal coil or loop to provide heat transfer. Discharge gas or liquid refrigerant can be used in the coil/loop. The coil/loop does not have a rated capacity and therefore if relying on certain performance conditions, field testing will need to be considered for your application. All other characteristics are the same as the non-heat exchange models.

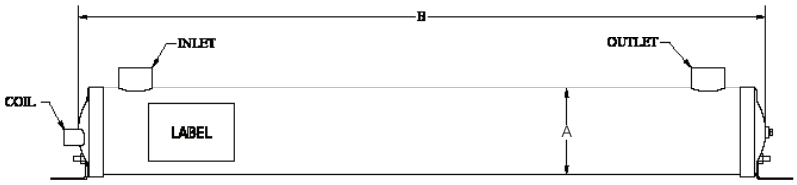
	Catalog Number	Holding Cap. (lbs of R-22)	ODS Conn. Size	Dimensions		Coil Conn.
				A	B	
UL	A6-11HE	13	1-1/8	6	15	5/8
UL	A6-13HE	20	1-3/8	6	23	5/8
UL	A6-15HE	20	1-5/8	6	23	7/8
ASME	A8-21HE	34	2-1/8	8	19.75	7/8
ASME	A10-25HE	54	2-5/8	10	21.50	1-1/8
ASME	A10-31HE	54	3-1/8	10	21.50	1-1/8

	Catalog Number	Recommended Tons of Refrigeration at Evaporator Temperature °F									
		R-22									
		-40°F		-20°F		0°F		20°F		40°F	
		Min/Max		Min/Max		Min/Max		Min/Max		Min/Max	
UL	A6-11HE	0.40	1.80	.23	2.9	.36	4.5	.54	6.8	.80	9
UL	A6-13HE	0.50	2.8	.57	4.8	.9	7.6	1.4	11	3.00	15.40
UL	A6-15HE	.9	4.7	1.4	8	2.3	13	3.4	19	5	27
ASME	A8-21HE	2	12	4	18	5	27	7	41	10	60
ASME	A10-25HE	4	17	6	27	8	41	10	62	14	90
ASME	A10-31HE	6	25	9	40	12	61	15	92	20	132

	Catalog Number	Recommended Tons of Refrigeration at Evaporator Temperature °F									
		R-404A									
		-40°F		-20°F		0°F		20°F		40°F	
		Min/Max		Min/Max		Min/Max		Min/Max		Min/Max	
UL	A6-11HE	0.40	1.40	.2	2.6	.33	4	.5	6.5	0.80	9.00
UL	A6-13HE	0.50	2.70	.5	4.3	.83	7	1.3	11	3.20	16.50
UL	A6-15HE	.90	4.50	1.3	7.1	2.1	12	3.3	18	5.5	29.00
ASME	A8-21HE	2	10	3	17	5	28	8	42	12	65
ASME	A10-25HE	3	15	5	25	8	41	13	63	19	97
ASME	A10-31HE	5	22	8	38	12	61	19	94	29	143

Horizontal Heat Exchangers Accumulators

Heat exchange accumulators provide an internal coil or loop to provide heat transfer. Discharge gas or liquid refrigerant can be used in the coil/loop. The coil/loop does not have a rated capacity and therefore if relying on certain performance conditions, field testing will need to be considered for your application. All other characteristics are the same as the non-heat exchange models.



	Catalog Number	Holding Cap. (lbs of R-22)	ODS Conn. Size	Dimensions		Coil Conn.
				A	B	
UL	A6-13HEZ	20	1-3/8	6	22.50	5/8
UL	A6-15HEZ	20	1-5/8	6	30	3/4
UL	A6-15HEZC	20	2-1/8	6	48	7/8
ASME	A8-25HEZA	34	2-5/8	8	24	1-3/8
ASME	A10-31HEZ	69	3-1/8	10	24	1-3/8

	Catalog Number	Recommended Tons of Refrigeration at Evaporator Temperature °F									
		R-22									
		-40°F		-20°F		0°F		20°F		40°F	
		Min/Max		Min/Max		Min/Max		Min/Max		Min/Max	
UL	A6-13HEZ	0.40	1.80	.23	2.9	.36	4.5	.54	6.8	.80	9
UL	A6-15HEZ	0.50	2.8	.57	4.8	.9	7.6	1.4	11	3.00	15.40
UL	A6-15HEZC	2	12	4	18	5	27	7	41	10	60
ASME	A8-25HEZA	4	17	6	27	8	41	10	62	14	90
ASME	A10-31HEZ	6	25	9	40	12	61	15	92	20	132

	Catalog Number	Recommended Tons of Refrigeration at Evaporator Temperature °F									
		R-404A									
		-40°F		-20°F		0°F		20°F		40°F	
		Min/Max		Min/Max		Min/Max		Min/Max		Min/Max	
UL	A6-13HEZ	0.40	1.40	.2	2.6	.33	4	.5	6.5	0.80	9.00
UL	A6-15HEZ	0.50	2.70	.5	4.3	.83	7	1.3	11	3.20	16.50
UL	A6-15HEZC	2	10	3	17	5	28	8	42	12	65
ASME	A8-25HEZA	4	17	6	27	8	41	10	62	14	90
ASME	A10-31HEZ	5	22	8	38	12	61	19	94	29	143

ASME Accumulators
Maximum Working Pressure—450 psig

Diameter	CRN
6-5/8"	M5013.5643 / U7913.2
8-5/8"	M3493.5C
10-3/4"	M3492.5C
12-3/4"	M3491.5C
14"	M4353.567890134YTN
16"	M4297.5C
20"	D08060.678901345YTN / U8190.2

ASME Accumulators

ASME accumulators are used to prevent liquid slugging of the compressor during a flood-back condition. If liquid enters the compressor cylinder, costly damage can occur. Our accumulators capture excess liquid leaving the evaporator, allowing the system to vaporize it during normal operation, returning only refrigerant vapor to the compressor. A weep hole is included in the internal tube to facilitate proper oil return from the accumulator to the operating system.

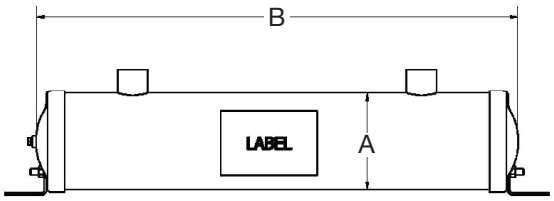
The accumulator must be placed between the evaporator and compressor to intercept the excess liquid. To size the accumulator, you must select the model with the tonnage nearest to the tonnage of the operating system. Care must also be taken to evaluate the amount of liquid holding capacity needed. We recommend the holding capacity not be less than 50% of the system charge. The minimum tonnage is the lowest capacity that will provide for adequate oil return from the accumulator. While these are general guidelines, it is the responsibility of the system designer to select and apply the accumulator properly. Contact us for help in selecting the proper model.

Features

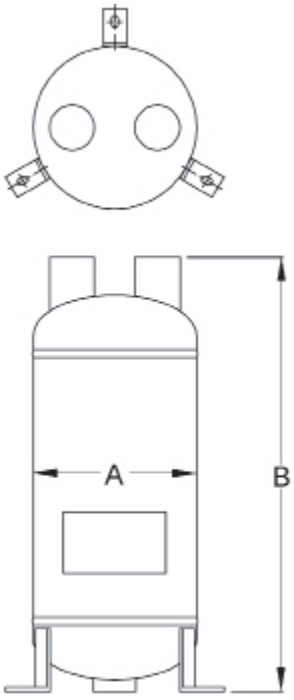
- Low pressure drop
- Positive oil return
- Powder painted finish to protect the accumulator during condensation
- 450 psig maximum working pressure

Consult Westermeyer Industries for custom sizes, including heat exchanger models.

ASME Accumulators
Maximum Working Pressure—450 psig



	Catalog Number	Holding Cap. (lbs of R-22)	ODS Conn. Size	Dimensions	
				A	B
Vertical	A8-15	29	1-5/8	8.625"	22"
	A8-21	29	2-1/8	8.625"	22"
	A10-21	43	2-1/8	10.75"	22"
	A10-25	43	2-5/8	10.75"	22'
	A10-31	48	3-1/8	10.75"	25"
	A12-31	72	3-1/8	12.75"	25"
	A14-41	115	4-1/8	14"	34"
	A16-41	135	4-1/8	16"	36"
	A20-41	276	4-1/8	20"	45"
Horiz	A8-25HZA	45	2-5/8	8-5/8"	24"
	A10-31HZA	69	3-1/8	10-3/4"	24"



	Catalog Number	Recommended Tons of Refrigeration at Evaporator Temperature °F									
		R-22									
		-40°F Min / Max		-20°F Min / Max		0°F Min / Max		20°F Min / Max		40°F Min / Max	
Vertical	A8-15	1.12	5	1.4	8	2.3	12.5	2.5	19	5	28
	A8-21	2	12	4	18	5	27	7	41	10	60
	A10-21	2	12	4	18	5	27	7	41	10	60
	A10-25	4	17	6	27	8	41	10	62	14	90
	A10-31	6	25	9	40	12	61	15	92	20	132
	A12-31	6	25	9	40	12	61	15	92	20	132
	A14-41	12	37	20	61	31	96	47	145	68	210
	A16-41	12	37	20	61	31	96	47	145	68	210
	A20-41	12	37	20	61	31	96	47	145	68	210
Horiz	A8-25HZA	4	17	6	27	8	41	10	62	14	90
	A10-31HZA	6	25	9	40	12	61	15	92	20	132

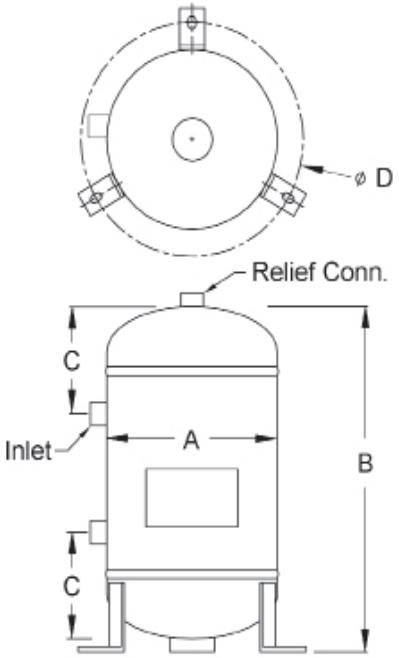
	Catalog Number	Recommended Tons of Refrigeration at Evaporator Temperature °F									
		R-404A									
		-40°F Min / Max		-20°F Min / Max		0°F Min / Max		20°F Min / Max		40°F Min / Max	
Vertical	A8-15	1.12	4	1.5	7.8	2.5	12.5	3.5	19	2	25
	A8-21	2	10	3	17	5	28	8	42	12	65
	A10-21	2	10	3	17	5	28	8	42	12	65
	A10-25	3	15	5	25	8	41	13	63	19	97
	A10-31	5	22	8	38	12	61	19	94	29	143
	A12-31	5	22	8	38	12	61	19	94	29	143
	A14-41	11	35	19	59	31	96	48	148	73	225
	A16-41	11	35	19	59	31	96	48	148	73	225
	A20-41	11	35	19	59	31	96	48	148	73	225
Horiz	A8-25HZA	3	15	5	25	8	41	13	63	19	97
	A10-31HZA	5	22	8	38	12	61	19	94	29	143

For pump-down capacities in R-404A, multiply the R-22 holding capacity by .90.

ASME Receivers
Maximum Working Pressure—450 psig

Diameter	CRN
6-5/8"	M5013.5643/U7913.2
8-5/8"	M3495.5C
10-3/4"	M3492.5C
12-3/4"	M3491.5C
14"	M4353.567890134YTN/ V5857.2
16"	M4297.5C
18"	M4677.5C
20"	D08060.678901345YTN U8190.2
24"	M4109.5C

Figure 1



ASME Receivers

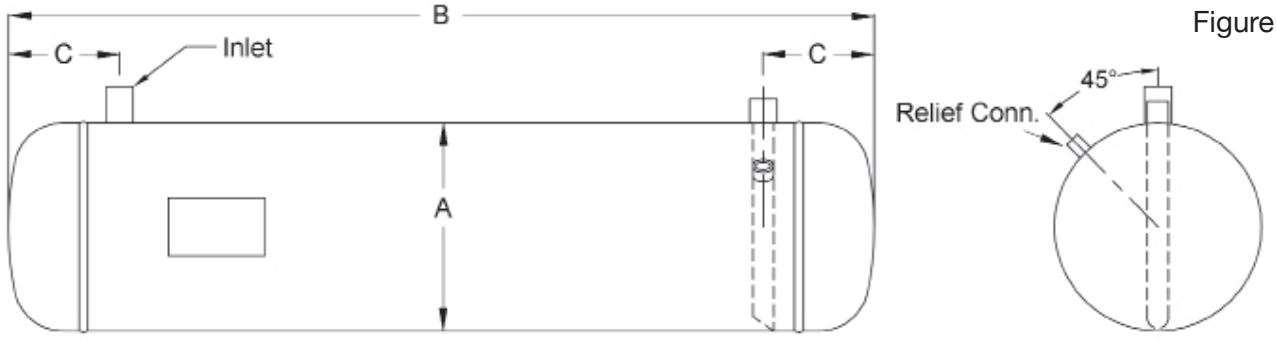
ASME receivers have been designed to conform to the many requirements of the system designer. All receivers are ASME certified and are either "U" or "UM" stamped in accordance with ASME Section VIII code. Catalog models are provided in both vertical and horizontal designs. Inlet and outlet connections may be modified to other connection styles such as rotolock spuds or pipe threads. A receiver should be selected based on the operating charge of the entire system, including all liquid lines. Pump-down capacities shown are calculated based on 90% at 90°F for R-22. All receivers are powder painted to provide corrosion protection.

Vessels are manufactured using code cases 1518.8 and 2148.

Ordering Options

- Rotolock connections and valves
- Sight glasses
- Mounting brackets
- Various pipe threaded connections
- Liquid level indicator flanges
- 450 psig maximum working pressure

Figure 2

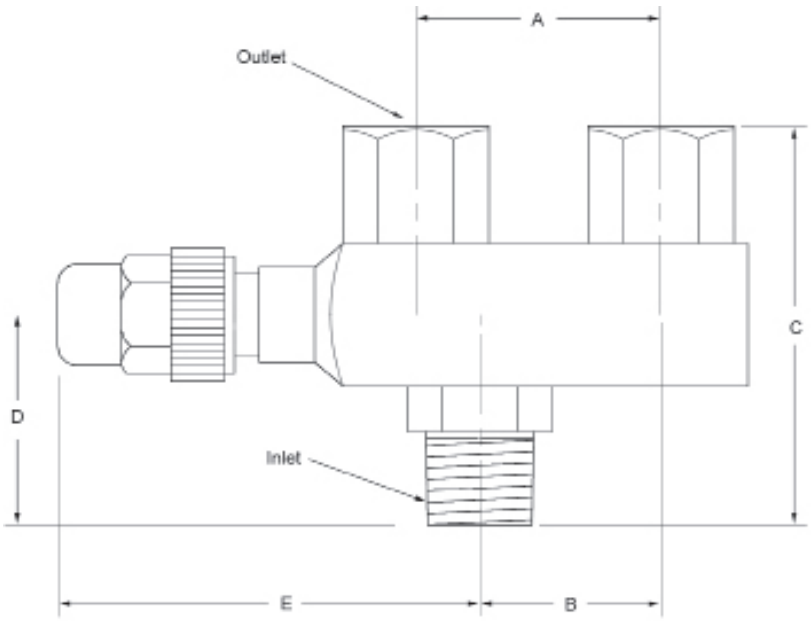


ASME Receivers
Maximum Working Pressure—450 psig

Catalog Number	Figure Number	Dimensions				ODS Inlet	ODS Outlet	Relief Conn. FPT	Holding Capacity (lbs of R-22)
		A	B	C	D				
RV615	1	6.63	15	4.63"	9.12	5/8	5/8	3/8	16
RV812	1	8.63	12	4.63"	11.12	5/8	5/8	3/8	21
RV816	1	8.63	16	4.63"	11.12	5/8	5/8	3/8	29
RV1018	1	10.75	18	6.5"	13.25	1-1/8	1-1/8	1/2	49
RV1218	1	12.75	18	6.5"	15.25	1-1/8	1-1/8	1/2	70
RV1220	1	12.75	20	6.5"	15.25	1-1/8	1-1/8	1/2	79
RV1224	1	12.75	24	6.5"	15.25	1-1/8	1-1/8	1/2	97
RV1236	1	12.75	36	6.5"	15.25	1-3/8	1-1/8	1/2	150
RV1248	1	12.75	48	6.5"	15.25	1-3/8	1-1/8	1/2	204
RV1446	1	14	46	8"	8	1-5/8	1-5/8	1/2	246
RV1660	1	16	60	8"	8	2-5/8	2-1/8	1/2	350
RV1862	1	18	62	10"	10	2-5/8	2-1/8	1/2	447
RH636	2	6.63	36	4.63"	N/A	7/8	7/8	3/8	41
RH836	2	8.63	36	4.63	N/A	1-1/8	1-1/8	1/2	69
RH842	2	8.63	42	4.63	N/A	1-1/8	1-1/8	1/2	81
RH848	2	8.63	48	4.63	N/A	1-1/8	1-1/8	1/2	94
RH860	2	8.63	60	6.00	N/A	1-1/8	1-1/8	1/2	118
RH872	2	8.63	72	4.63	N/A	1-1/8	1-1/8	1/2	142
RH1036	2	10.75	36	6.36	N/A	1-3/8	1-3/8	1/2	105
RH1048	2	10.75	48	6.50	N/A	1-3/8	1-3/8	1/2	142
RH1060	2	10.75	60	6.50	N/A	1-3/8	1-3/8	1/2	180
RH1072	2	10.75	72	6.50	N/A	1-3/8	1-3/8	1/2	217
RH1084	2	10.75	84	6.50	N/A	1-5/8	1-5/8	1/2	255
RH1096	2	10.75	96	6.50	N/A	1-5/8	1-5/8	1/2	292
RH1248	2	12.75	48	8.00	N/A	1-5/8	1-5/8	1/2	204
RH1260	2	12.75	60	8.00	N/A	1-5/8	1-5/8	1/2	258
RH1272	2	12.75	72	8.00	N/A	2-1/8	1-3/8	1/2	311
RH1296	2	12.75	96	8.00	N/A	2-1/8	1-3/8	1/2	418
RH1472	2	14	72	8.00	N/A	2-1/8	1-3/8	1/2	375
RH1672	2	16	72	9.00	N/A	2-5/8	2-1/8	1/2	480
RH1872	2	18	72	10.00	N/A	3-1/8	2-1/8	1/2	622
RH2072	2	20	72	11.00	N/A	3-1/8	2-5/8	1/2	760
RH24120	2	24	120	13	N/A	4-1/8	3-5/8	3/4	1815
RH30120	2	30	120	15	N/A	4-1/8	3-5/8	3/4	3170

Multiply the R-22 capacity by 0.90 to find R-404A capacity.

Three Way and Gauge Set Valves



Catalog Number	Inlet	Outlet	Dimensions				
			A	B	C	D	E
TW-04	1/2" MPT	1/2" FPT	2.00"	1.55"	3.17"	1.63"	3.75"
TW-14	1 1/4"–12 Rotolock	1/2" FPT	2.00"	1.55"	3.80"	2.25"	3.75"

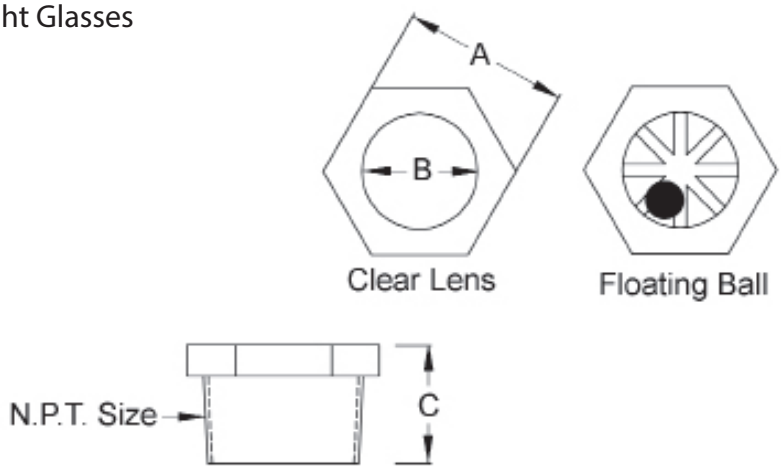
Three Way Valves

The TW series of three-way valves is designed to fulfill the requirements of ASHRAE standard 15, which states that all vessels over 10 cubic feet of internal volume must have a dual relief valve assembly. The three-way valve is made of nickel plated steel. It is a packed valve design and the packing can be replaced if necessary. It is imperative that the valve stem be either front-seated or back-seated to insure only one relief valve assembly is active. The TW-14 is made to connect to a standard 1-1/4"-12 Rotolock fitting. A PTFE gasket is supplied with the TW-14.

Features

- Nickel plate steel body
- Nitrogen tested for cleanliness
- 500 psig maximum working pressure
- Temperature rating: -20°F to +300°F
- Suitable for refrigerants and other industrial fluids non-corrosive to brass and steel

Sight Glasses



Catalog Number		Dimensions			Thread NPT
Clear	Floating Ball	Hex A	B	C	
CL-04	FL-04	0.94"	0.56"	0.80"	1/2"
CL-06	FL-06	1.06"	0.75"	0.94"	3/4"
CL-08	FL-08	1.38"	0.94"	1.06"	1"
CL-10	FL-10	1.75"	1.19"	1.22"	1-1/4"
CL-12	FL-12	2.00"	1.44"	1.22"	1-1/2"
CL-16	FL-16	2.50"	1.88"	1.28"	2"

Sight Glasses

Sight glasses are installed in vessels to view refrigerant, oil and other non-corrosive fluids. Our sight glasses are offered in three versions: reflex, clear lens and floating ball. The RL, reflex lens models, appears dark when liquid is present. When no liquid is present the reflex rings will appear.

All sight glasses are approved up to temperatures of 500°F and they have a maximum working pressure of 500 psig.

Features:

- Hermetically sealed glass
- Nickel plated

Rupture Disk Assemblies

The 526 rupture disk assembly is installed between either a three-way valve or receiver tank and the relief valve to prevent the weeping of refrigerant through the relief valve.

The use of the rupture disk must be in accordance with ASME Section VIII, Division 1, UG 127. The rupture disk setting must not exceed the set pressure of the relief valve. When using a rupture disk in combination with a relief valve, the relief valve discharge capacity must be de-rated by 10%.

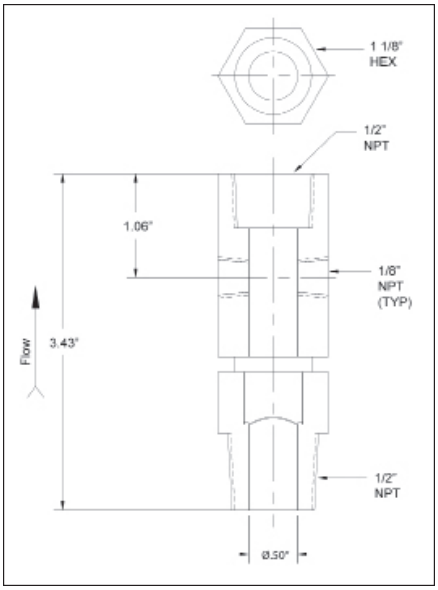
There are two 1/8" NPT connections above the disk. These are used to provide an indication that the disk has ruptured. Pressure gauges and pressure switches can be installed in these ports (see W15 pressure gauge below).

Please contact Westermeyer Industries for all non-standard settings. Minimum order may apply.

Caution: If pressure is allowed to build above the rupture disk, it will not burst at its designed pressure.

Features

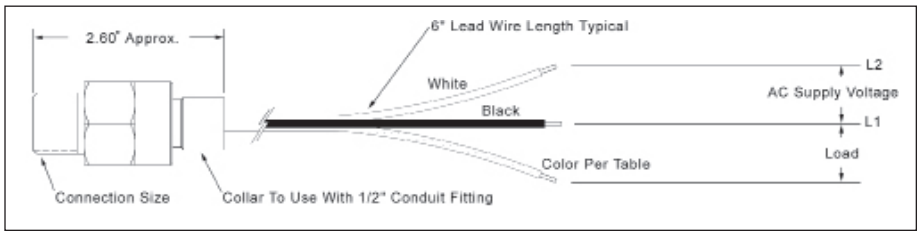
- Brass body
- Operating range -10% / +0%
- ASME Section VIII Division 1 certified and UD stamped
- Non-fragmenting disk
- Factory sealed



Catalog Number	Pressure Setting (psig)
526-235	235
526-250	250
526-300	300
526-350	350
526-400	400
526-450	450
526-500	500
526-550	550
526-600	600
526-650	650
526-700	700

W15 Pressure Gauge

- Pressure range: 0 to 700 psig
- Dial: 1.50" diameter
- Back connection: 1/8" NPT



Optional Junction Box

- All switches can be ordered with an optional clip style junction box attached to the switch. When ordering add the letter “J” to the end of the part number.

Catalog Number	Connection Size	Voltage (60/80 Hz)	Resistive Rating (AMP)	Contacts with liquid present	Repl. Module No.	Min/MaxFluid Temp
LS-120	1/2" NPT	120 V	0.5	Closed	180-001	0°F/200°F
LS-120A	1/2" NPT	120 V	0.5	Open	180-002	0°F/200°F
LS-120-W	3/4"-16 UNJF-3A	120 V	0.5	Closed	180-001	0°F/200°F
LS-120A-W	3/4"-16 UNJF-3A	120 V	0.5	Open	180-002	0°F/200°F
LS-240	1/2" NPT	208/240V	0.25	Closed	180-003	0°F/200°F
LS-240A	1/2" NPT	208/240V	0.25	Open	180-004	0°F/200°F
LS-240-W	3/4"-16 UNJF-3A	208/240V	0.25	Closed	180-003	0°F/200°F
LS-240A-W	3/4"-16 UNJF-3A	208/240V	0.25	Open	180-004	0°F/200°F
LS-24	1/2" NPT	24V AC/DC	0.5	Closed	180-007	0°F/200°F
LS-24A	1/2" NPT	24V AC/DC	0.5	Open	180-008	0°F/200°F
LS-24-W	3/4"-16 UNJF-3A	24V AC/DC	0.5	Closed	180-007	0°F/200°F
LS-24A-W	3/4"-16 UNJF-3A	24V AC/DC	0.5	Open	180-008	0°F/200°F
LS-240A-LT	1/2" NPT	208/240V	0.25	Open	N/A	-40°F/200°F

Liquid Level Switches

The LS liquid level switch is a highly reliable method of detecting fluid levels. Solid state construction ensures many years of trouble-free operation. The hermetically sealed sight glass provides high working pressures without leakage. The liquid level is optically detected through a sight glass. Fluids can be as clear as water or as dirty as crude oil.

The switch must be installed horizontally and must have at least 2" of distance between it and the vessel wall or pipe. Line voltage is wired directly to the switch, removing the need for step down transformers. A 1/2" conduit boss is provided for the mounting of a junction box. Two thread models are available for various applications.

Features

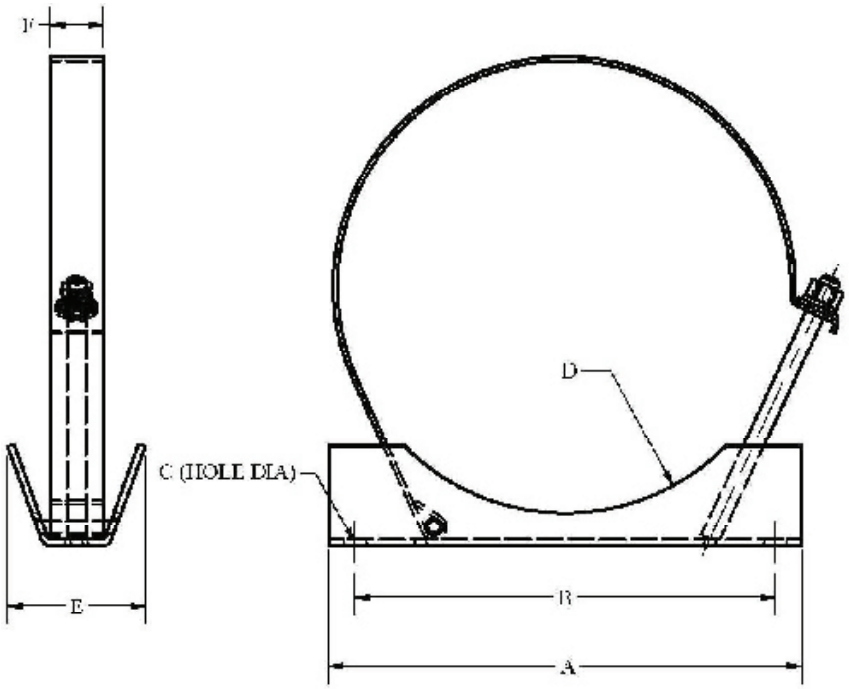
- Body made of 1-1/8" Hex Nickel Plate Steel
- Solid state switching
- Serviceable without loss of fluid
- 1000 PSI max working pressure
- UL listed, file number E141577
- Switch rated at over 1 million cycles
- Non-invasive liquid sensing
- Suitable for refrigerants and other industrial fluids non-corrosive to steel and glass

Specifications

- Inductive rating = 36va pilot duty rated
- Minimum load = 2ma w/o bleed resistor
- Power consumption = 3.5ma AC
- Power consumption = 5.5ma DC
- Contact power off = Normally open
- Mounting = Horizontal only

Brackets

Mounting brackets can be used to install horizontal receivers and condensers. All bracket dimensions including the mounting hole locations are shown in the table below. Brackets are powder painted black.



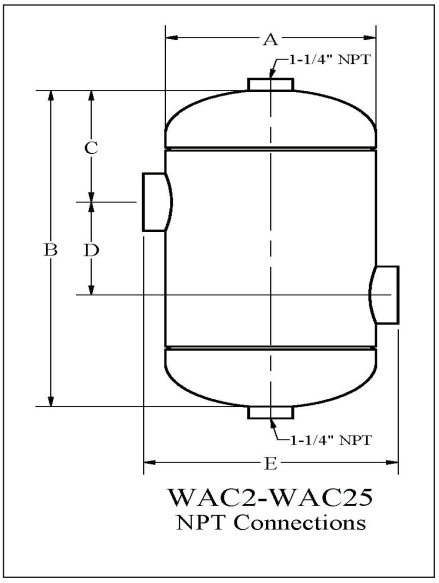
Catalog Number	Dimensions					
	A	B	C	D	E	F
BK-06A	7	6.26	0.43	6.63	2.63	1.00
BK-06B	7	5.50	0.43	6.00	2.63	1.00
BK-08A	9	8.50	0.43	8.63	2.63	1.00
BK-10B	11	10.50	0.43	10.75	2.63	1.00
BK-12B	13	12.32	0.56	12.75	3.13	1.50

Air Separators

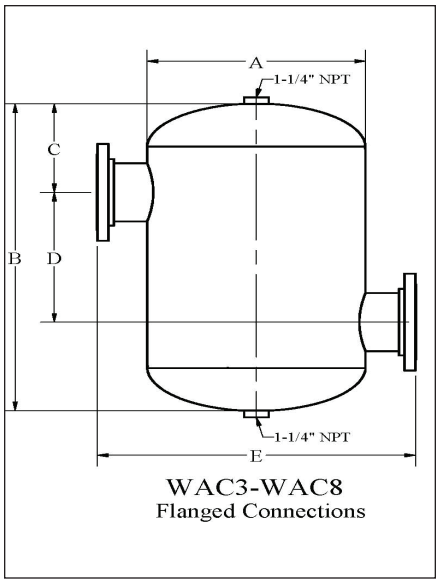
Air separators are designed to efficiently remove air from various HVAC systems over a wide range of operating pressures and flows. All air separators are constructed to ASME Section VIII code and are rated for 125 psig working pressure up to a maximum operating temperature of 375°F. Separators are available in pipe sizes from 2” to 8” for a wide range of applications.

Features

- 125 psig rated—ASME Stamped
- Powder paint finish
- Flanged and NPT sizes available



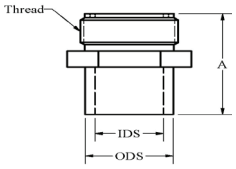
WAC2-WAC25
NPT Connections



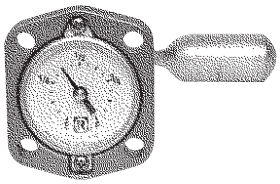
WAC3-WAC8
Flanged Connections

Catalog Number	Pipe Size	Dimensions					Max Flow (gpm)	Cv Factor	Shipping Weight (lbs)
		A	B	C	D	E			
WAC2	2	8.625"	18"	6.31"	5.38"	10.88"	80	86	32
WAC25	2.5	10.75"	20.00"	7.06"	5.88"	13.00"	130	122	56
WAC3	3	14"	27.25"	8.0"	11.25"	20.75"	190	190	128
WAC4	4	16"	31.30"	9.32"	12.75"	25.25"	330	325	121
WAC5	5	16"	31.39"	8.82"	13.75"	25.25"	550	510	170
WAC6	6	20	38	23	11.62	29.25	900	750	190
WAC8	8	20	49.45	16.04	17.38	29.75	1500	1260	276

Brass ODS to Rotolock Adapter



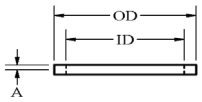
Catalog Number	IDS	ODS	Thread	A
50-400	5/8"	7/8"	1"-14	1-5/16"
50-401	5/8"	7/8"	1-1/4" - 12	1-9/16"
50-402	7/8"	1-1/8"	1-1/4" - 12	1-9/16"
50-403	1-1/8"	1-3/8"	1-1/4" - 12	1-9/16"
50-404	1-1/8"	1-3/8"	1-3/4" - 12	1-11/16"
50-405	1-3/8"	1-5/8"	1-3/4" - 12	1-11/16"
50-406	1-5/8"	1-7/8"	1-3/4" - 12	1-11/16"



Liquid Level Gauges

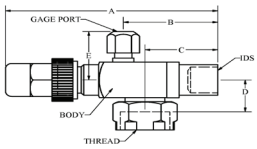
Catalog Number	Vessel OD
LLG-6	6.625"
LLG-8	8.625"
LLG-10	10.75"
LLG-12	12.75"
LLG-14	14"
LLG-16	16"
LLG-18	18"
LLG-20	20"
LLG-24	24"

PTFE Gasket



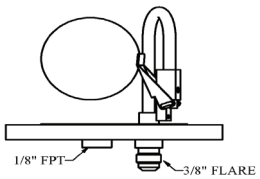
Catalog Number	ID	OD	A	Use With Thread
100-004	7/16"	9/16"	1/16"	3/4" - 16
100-005	5/8"	3/4"	1/16"	1"-14
100-022	7/8"	1"	1/16"	1-1/4" - 12
100-024	1-3/8"	1-1/2"	1/16"	1-3/4" - 12

Rotolock Valves



Catalog Number	IDS	Thread	Gauge Loc.	Body Size	A	B	C	D	E
50-002	3/8" Flare	3/4" - 16	Top	3/4" Hex	3-23/32"	1-17/32"	1-3/16"	25/32"	1"
50-003	1/2" Flare	1" - 14	Top	7/8" sq	4-1/8"	1-23/32"	1-5/16"	3/4"	1-1/16"
50-037	5/8" Flare	1" - 14	Top	7/8" sq	4-3/8"	1-31/32"	1-9/16"	3/4"	1-1/16"
50-018	1/2" ods	1" - 14	Right	7/8" sq	4-1/32"	1-5/8"	1-7/32"	3/4"	1-1/16"
50-019	5/8" ods	1" - 14	Right	7/8" sq	4-9/32"	1-7/8"	1-15/32"	3/4"	1-1/16"
50-034	7/8" ods	1-1/4" - 12	Left	1-1/8" sq	5-3/8"	2-11/32"	1-11/16"	31/32"	1-3/16"
50-042	1-1/8" ods	1-3/4" - 12	Top	1-1/8" sq	5-3/8"	2-19/32"	1-15/32"	31/32"	1-3/16"
50-043	1-3/8" ods	1-3/4" - 12	Top	1-1/8" sq	7-3/16"	3-5/16"	2-15/32"	1-3/16"	1-5/16"

Replacement Float Assembly & Gasket



Catalog Number	Description
W1900-30	Float assembly with gasket
100-010	Gasket

Mission

To serve our customers by partnering with them to provide high-quality engineered products and services.

Vision

Through relationship building and adherence to high standards of integrity and business ethics, create an environment known for our respect and commitment to our customers, employees, and suppliers.

Online Sizing Tool

Westermeyer Industries has created an online sizing calculator to help you choose properly sized condensers, oil separators and accumulators. Visit our new online calculator at **www.westermeyerind.com**.

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