

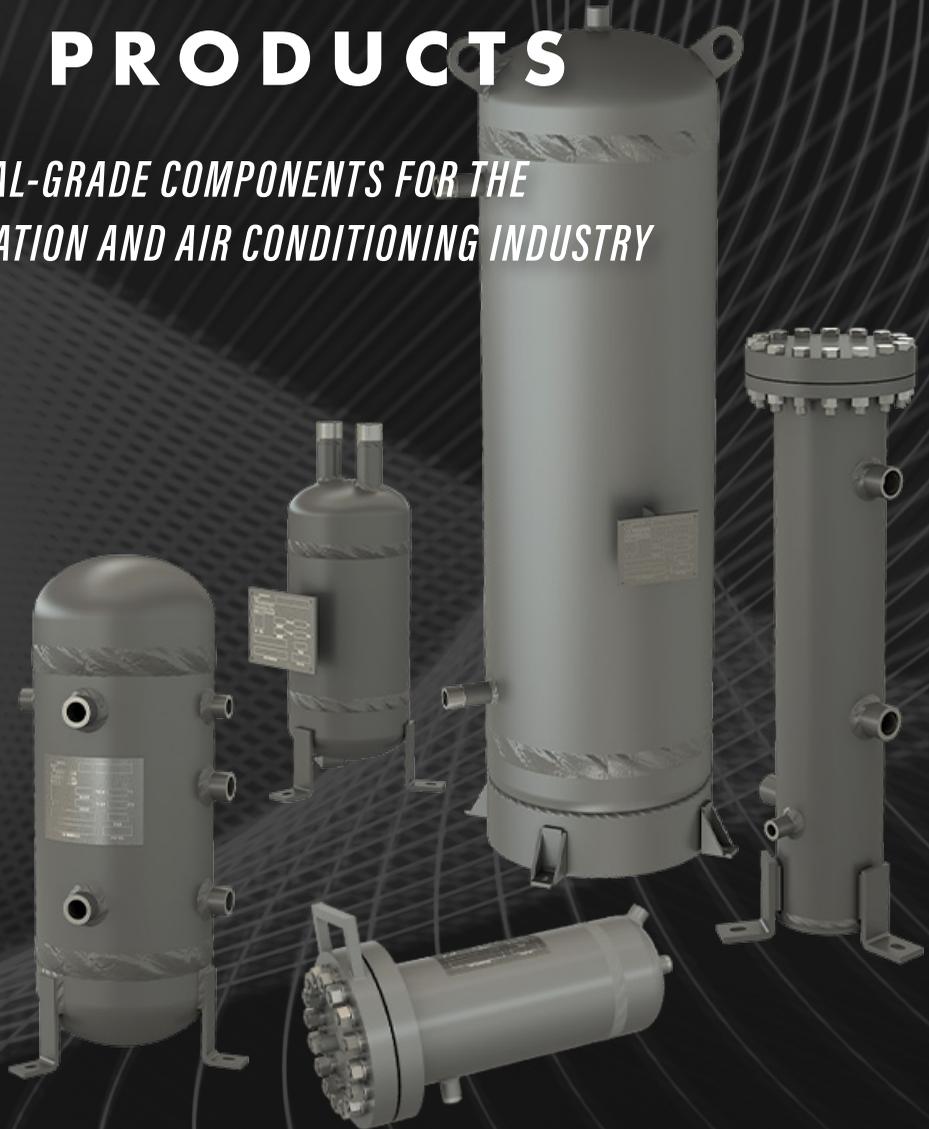


A COMPANY OF MUELLER INDUSTRIES

# Westermeyer Industries Inc.

## TRANSCRITICAL CO<sub>2</sub> PRODUCTS

*INDUSTRIAL-GRADE COMPONENTS FOR THE  
REFRIGERATION AND AIR CONDITIONING INDUSTRY*



(217) 754-3277

WESTERMEYERIND.COM

CUSTOMER DRIVEN | RESULTS ORIENTED

# TRANSCRITICAL CO2 PRODUCTS

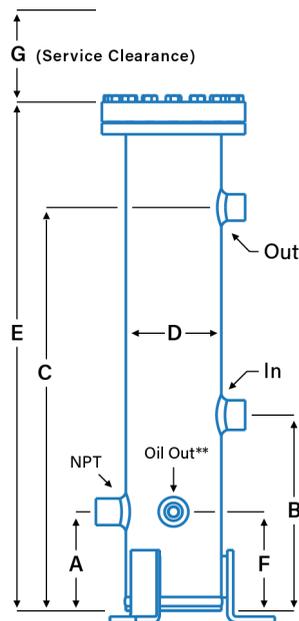
## OIL SEPARATORS

*COALESCING / MAXIMUM WORKING PRESSURE : 1885 PSI (130 BAR)*



### FEATURES

Our transcritical coalescing oil separators use a borosilicate glass filter element designed to be 99.5% effective at removing oil particles and system contaminants above 0.3 microns in size. It is recommended that the oil separator be changed when the pressure differential exceeds 15 psig.



## TRANSCRITICAL COALESCING OIL SEPARATOR

Catalog Number	In/Out	Dimensions							DCFM Min/Max	Repl. Filter	Oil Outlet	Oil Cap.	
		A	B	C	D	E	F	G					
TCOS4-04	½" NPT	4.44"	8.25"	20.50"	4.00"	24.13"	3.69"	10"	1.5	25	90-051TK	¼" NPT	47 oz
TCOS4-05	⅝" SW*	4.44"	8.25"	20.50"	4.00"	24.13"	3.69"	10"	1.5	25	90-051TK	¼" NPT	47 oz
TCOS4-06	¾" NPT	4.44"	8.25"	20.50"	4.00"	24.13"	3.69"	10"	1.5	25	90-051TK	¼" NPT	47 oz
TCOS4-07	⅞" SW	4.44"	8.25"	20.50"	4.00"	24.13"	3.69"	10"	1.5	25	90-051TK	¼" NPT	47 oz
TCOS4-13	1 ⅜" SW	4.44"	8.25"	20.50"	4.00"	24.13"	3.69"	10"	1.5	25	90-051TK	¼" NPT	47 oz
TCOS5-08	1" NPT	4.50"	6.63"	22.88"	5.56"	28.06"	4.50"	13"	2.5	35	90-127TK	¼" NPT	75 oz
TCOS5-10	1 ¼" NPT	4.50"	6.63"	22.88"	5.56"	28.06"	4.50"	13"	2.5	35	90-127TK	¼" NPT	75 oz
TCOS5-11	1 ⅝" SW	4.50"	6.63"	22.88"	5.56"	28.06"	4.50"	13"	2.5	35	90-127TK	¼" NPT	75 oz
TCOS5-12	1 ½" NPT	4.50"	6.63"	22.88"	5.56"	28.06"	4.50"	13"	2.5	35	90-127TK	¼" NPT	75 oz
TCOS5-13	1 ⅜" SW	4.50"	6.63"	22.88"	5.56"	28.06"	4.50"	13"	2.5	35	90-127TK	¼" NPT	75 oz
TCOS5-15	1 ⅝" SW	4.50"	6.63"	22.88"	5.56"	28.06"	4.50"	13"	2.5	35	90-127TK	¼" NPT	75 oz
TCOS8-12	1 ½" NPT	7.25"	8.25"	30.00"	8.625"	36.17"	7.00"	15"	3.5	45	90-058TK	⅝" ODS	1.6 gal
TCOS8-15	1 ⅝" SW	7.25"	8.25"	30.00"	8.625"	36.17"	7.00"	15"	3.5	45	90-058TK	⅝" ODS	1.6 gal
TCOS8-16	2" NPT	7.25"	8.25"	30.00"	8.625"	36.17"	7.00"	15"	3.5	45	90-058TK	⅝" ODS	1.6 gal
TCOS8-21	2 ⅝" SW	7.25"	8.25"	30.00"	8.625"	36.17"	7.00"	15"	3.5	45	90-058TK	⅝" ODS	1.6 gal

\*Socket Weld

## RECOMMENDED ACCESSORY



**Refri-Shield™ RDP-01T**  
Differential Pressure Monitor  
for Transcritical CO<sub>2</sub>

TRANSCRITICAL CO2 PRODUCTS

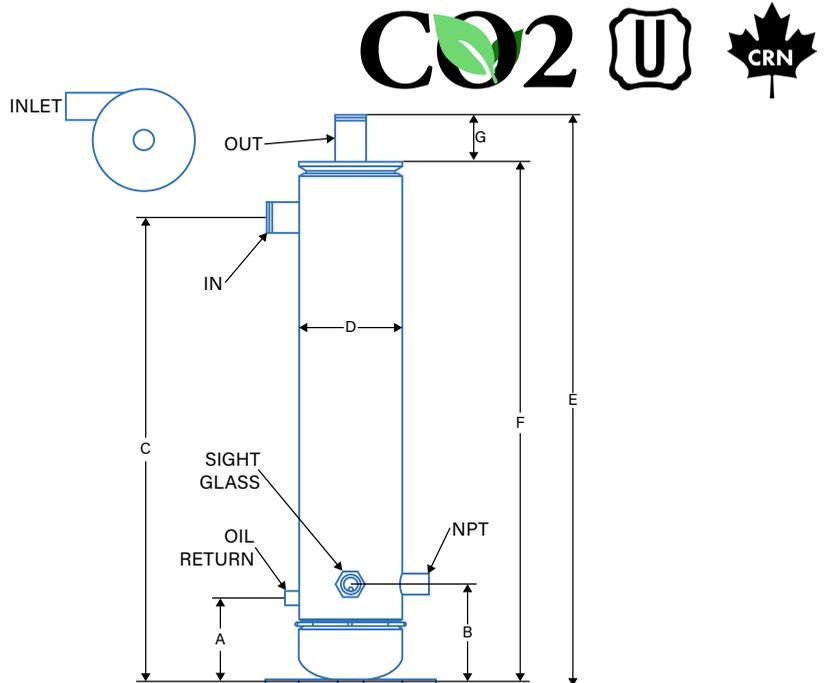
# OIL SEPARATORS

*CENTRIFUGAL / MAXIMUM WORKING PRESSURE: 1885 PSIG*



## FEATURES

Centrifugal Oil Separators are designed to remove large quantities of oil from refrigerant at a wide range of operating capacities. This process is accomplished by redirecting the flow path of refrigerant, forcing it to travel in a centrifugal motion inside the vessel, using these forces to strip the oil from the refrigerant. Once the oil is separated, it can be metered back to the compressor. The TOS-series centrifugal oil separator is made to operate at transcritical pressures, using these same processes for effective performance in CO2 refrigeration systems.



**TRANSCRITICAL CENTRIFUGAL OIL SEPARATOR**

Catalog Number	ODS	Dimensions							Oil Outlet	DCFM	
		A	B	C	D	E	F	G		Min	Max
TOS4-04	½"	3.69"	4.44"	21.69"	4.00"	25.94	24.00"	1.75"	¼" NPT	1.00	4.00
TOS4-05	⅝"	3.69"	4.44"	21.69"	4.00"	25.94	24.00"	1.75"	¼" NPT	1.50	6.00
TOS4-07	⅞"	3.69"	4.44"	21.69"	4.00"	26.44"	24.00"	2.25"	¼" NPT	3.00	12.00
TOS5-11	1 ⅛"	4.50"	5.25"	25.00"	5.56"	30.75"	28.00"	2.50"	¼" NPT	5.00	20.00
TOS5-13	1 ¾"	4.50"	5.25"	25.00"	5.56"	30.75"	28.00"	2.50"	¼" NPT	6.50	26.00
TOS5-15	1 ⅝"	4.50"	5.25"	27.00"	5.56"	32.75"	30.00"	2.50"	¼" NPT	7.00	28.00
TOS6-21	2 ⅛"	5.75	6.50"	30.00"	6.63"	36.25"	33.50"	2.50"	⅝" ODS	10.00	40.00

TRANSCRITICAL CO2 PRODUCTS

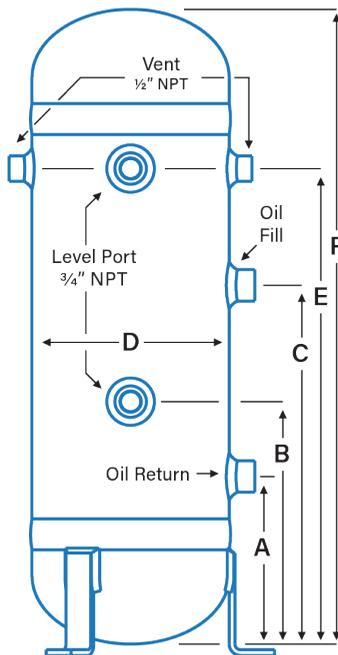
**OIL RESERVOIRS**

*MAXIMUM WORKING PRESSURE : 1885 PSI (130 BAR)*



**FEATURES**

Oil reservoirs are designed to hold excess oil from varying system loads and frost cycles in parallel compressor systems.



**TRANSCRITICAL OIL RESERVOIR**

Catalog Number	Oil Fill/Ret. NPT	Dimensions						Cap (Gal)
		A	B	C	D	E	F	
TOR5-2	1/2"	5.00"	5.25"	15.00"	5.56"	23.00"	28.00"	2
TOR8-3	3/4"	7.50"	7.75"	13.00"	8.63"	16.75"	23.75"	3
TOR8-4	3/4"	7.50"	7.75"	15.25"	8.63"	20.75"	28.25"	4
TOR8-5	3/4"	7.50"	7.75"	19.00"	8.63"	27.75"	35.00"	5
TOR10-8	3/4"	7.50"	7.75"	17.50"	10.75"	25.50"	33.50"	8
TOR10-10	3/4"	7.50"	7.75"	20.50"	10.75"	31.00"	39.00"	10
TOR12-15	3/4"	8.00"	8.25"	23.50"	12.75"	34.00"	42.00"	15

TRANSCRITICAL CO2 PRODUCTS



# SERVICEABLE OIL STRAINER

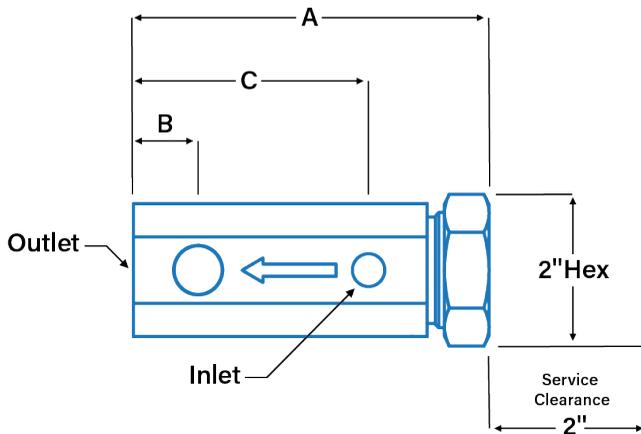
*MAXIMUM WORKING PRESSURE : 2031 PSI (140 BAR)*



## FEATURES

An oil strainer should always be used with any oil management system to ensure that refrigerant oil is clean of any foreign matter that may obstruct the flow of oil. Our inline oil strainers are equipped with a hermetically sealed sight glass, providing a visual indication of oil flow.

- Nickel-Plated Steel Enclosure
- Serviceable Strainer Basket
- 5.51 sq. in. filtering surface
- Hermetically-Sealed Sight Glass



## TRANSCRITICAL SERVICEABLE OIL STRAINER

Catalog Number	Dimensions			Repl. Screen	Inlet / Outlet
	A	B	C		
TST-01	5.48"	1"	3.63"	90-026TK	1/4" FNPT

# OIL FILTERS

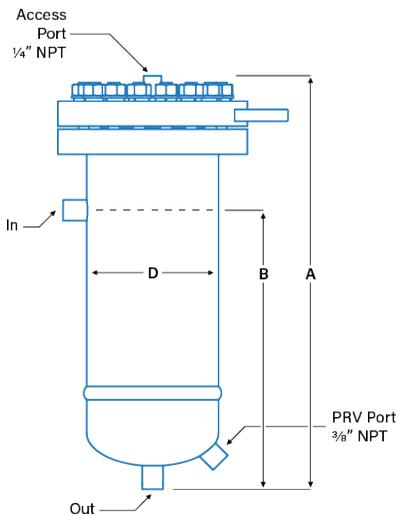
*MAXIMUM WORKING PRESSURE : 1885 PSI (130 BAR)*



## FEATURES

An oil filter should always be used with any oil management system to ensure that refrigerant oil is clean of any foreign matter that may obstruct float valves in an oil system.

- Low pressure drop filter. Replace at 15 PSIG pressure drop
- 99.5% efficient at removing 4-micron particles and larger
- 330 sq. in. of filtering surface area



## TRANSCRITICAL OIL FILTER

Catalog Number	Dimensions				Repl. Filter	Ftg. Size
	A	B	C	D		
TOF5-04	17.25"	11.61"	8.00"	5.56"	90-007TK	1/2" ODS
TOF5-05	17.50"	11.79"	8.00"	5.56"	90-007TK	5/8" ODS

# TRANSCRITICAL CO2 PRODUCTS

## FILTER DRIERS

*MAXIMUM WORKING PRESSURE : 1885 PSI (130 BAR)*

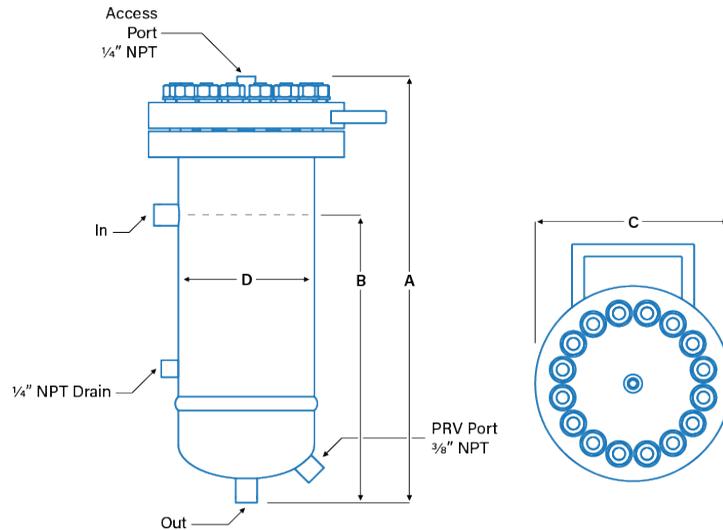


### FEATURES

A filter drier is a crucial component in any HVAC or Refrigeration system. Our line transcritical filter drier housings protect the system by filter system particulates, while also helping to prevent moisture from adversely affecting system components.



Featuring filter-drier cores\* from:



## TRANSCRITICAL FILTER DRIER

Catalog Number	Dimensions				Num. of Cores*	Ftg. Size	Capacity CO2 (Tons)
	A	B	C	D			
TF1-05	17.25"	10.63"	8.00"	5.56"	1	5/8"	34.70
TF1-07	17.56"	10.97"	8.00"	5.56"	1	7/8"	58.20
TF1-11	17.75"	11.16"	8.00"	5.56"	1	1 1/8"	82.80
TF1-13	17.75"	11.16"	8.00"	5.56"	1	1 3/8"	114.60
TF1-15	18.00"	11.41"	8.00"	5.56"	1	1 5/8"	132.60
TF1-21	18.25"	11.66"	8.00"	5.56"	1	2 1/8"	198.10
TF2-07	23.31"	16.72"	8.00"	5.56"	2	7/8"	59.50
TF2-11	23.50"	16.91"	8.00"	5.56"	2	1 1/8"	93.60
TF2-13	23.50"	16.91"	8.00"	5.56"	2	1 3/8"	120.70
TF2-15	23.75"	17.16"	8.00"	5.56"	2	1 5/8"	146.50
TF2-21	24.00"	17.41"	8.00"	5.56"	2	2 1/8"	214.40
TF3-11	29.25"	22.66"	8.00"	5.56"	3	1 1/8"	93.10
TF3-13	29.25"	22.66"	8.00"	5.56"	3	1 3/8"	133.10
TF3-15	29.50"	22.91"	8.00"	5.56"	3	1 5/8"	149.20
TF3-21	29.75"	23.16"	8.00"	5.56"	3	2 1/8"	186.10
TF4-13	35.06"	28.47"	8.00"	5.56"	4	1 3/8"	139.20
TF4-15	35.31"	28.72"	8.00"	5.56"	4	1 5/8"	162.30

\*Cores sold separately. Mueller Refrigeration part numbers: P36818 (Filter-Drier Core); A18733C (Suction-Line Filter).

# TRANSCRITICAL CO2 PRODUCTS

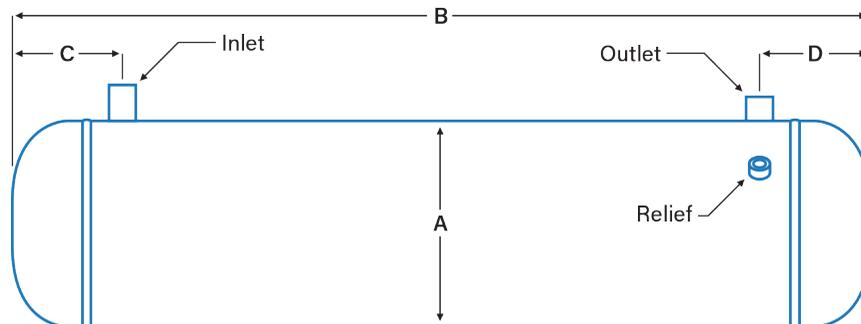
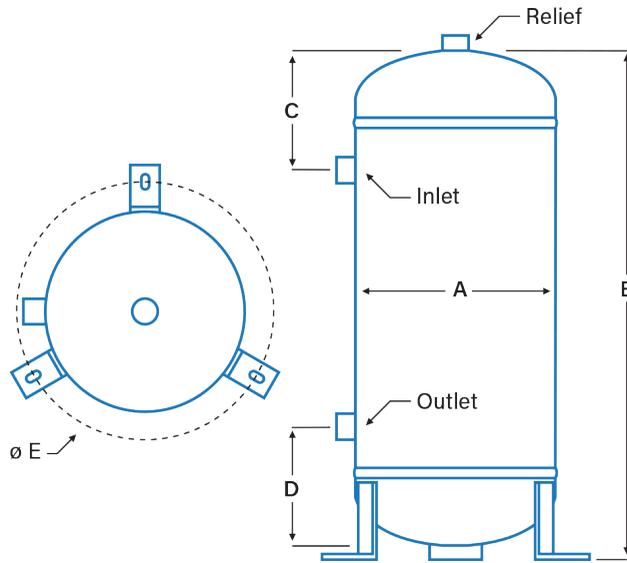
## LIQUID RECEIVERS

MAXIMUM WORKING PRESSURE : 1305 PSI (90 BAR)



### FEATURES

Liquid receivers or flash tanks are designed to hold excess refrigerant between the gas cooler/condenser and expansion devices.



## TRANSCRITICAL LIQUID RECEIVER

	Catalog Number	Dimensions					ODS In/Out*	NPT	Volume (ft <sup>3</sup> )**	
		A	B	C	D	E				
Vertical	TRV615	6.63"	15.75"	5.25"	5.25"	9.12"	5/8"	5/8"	3/8"	0.12
	TRV816	8.63"	16.75"	6.00"	6.00"	11.12"	5/8"	5/8"	3/8"	0.24
	TRV1018	10.75"	18.38"	4.00"	8.00"	13.25"	1 1/8"	1 1/8"	1/2"	0.32
	TRV1236	12.75"	36.50"	8.50"	8.50"	15.25"	1 1/8"	1 1/8"	1/2"	1.49
	TRV1446	14.00"	46.00"	9.00"	9.00"	16.60"	1 5/8"	1 5/8"	1/2"	2.42
	TRV1660	16.00"	60.00"	9.50"	9.50"	18.36"	2 5/8"	2 5/8"	1/2"	4.38
	TRV1862	18.00"	62.00"	10.00"	10.00"	20.60"	2 5/8"	2 5/8"	1/2"	5.93
	TRV2072	20.00"	72.00"	11.00"	11.00"	22.64"	3 1/8"	3 1/8"	1/2"	8.12
TRV2472	24.00"	72.00"	15.00"	15.00"	26.60"	4 1/8"	4 1/8"	3/4"	11.70	
Horizontal	TRH636	6.63"	36.00"	5.25"	5.25"	-	7/8"	7/8"	3/8"	0.43
	TRH848	8.63"	48.00"	6.00"	6.00"	-	1 1/8"	1 1/8"	1/2"	1.05
	TRH1036	10.75"	36.00"	8.25"	8.25"	-	1 3/8"	1 3/8"	1/2"	1.05
	TRH1260	12.75"	60.00"	8.00"	8.00"	-	1 5/8"	1 5/8"	1/2"	2.91
	TRH1472	14.00"	72.00"	9.00"	9.00"	-	2 1/8"	1 3/8"	1/2"	4.31
	TRH1672	16.00"	72.00"	9.50"	9.50"	-	2 5/8"	2 1/8"	1/2"	5.69
	TRH1872	18.00"	72.00"	10.00"	10.00"	-	3 1/8"	2 1/8"	1/2"	7.44
	TRH2072	20.00"	72.00"	11.00"	11.00"	-	3 1/8"	2 5/8"	1/2"	8.69
TRH24120	24.00"	120.00"	15.00"	15.00"	-	4 1/8"	3 5/8"	3/4"	21.97	

\*Socket weld

\*\*Volumes calculated at 90% capacity



## TRANSCRITICAL LIQUID RECEIVER

Catalog Number	ODS	Dimensions		Volume*
		A	B	ft <sup>3</sup>
TA3-04	1/2"	3.50"	10.00"	0.01
TA4-03	3/8"	4.50"	10.00"	0.03
TA4-04	1/2"	4.50"	10.00"	0.03
TA4-05	5/8"	4.50"	10.00"	0.03
TA4-06	3/4"	4.50"	10.00"	0.02
TA5-07	7/8"	5.56"	10.00"	0.03
TA6-11	1 1/8"	6.63"	18.75"	0.13
TA6-13	1 3/8"	6.63"	23.00"	0.18
TA6-15	1 5/8"	6.63"	23.00"	0.18
TA8-11	1 1/8"	8.63"	22.00"	0.34
TA8-15	1 5/8"	8.63"	22.00"	0.27
TA8-21	2 1/8"	8.63"	22.00"	0.25
TA10-11	1 1/8"	10.75"	22.00"	0.55
TA10-21	2 1/8"	10.75"	22.00"	0.31
TA10-25	2 5/8"	10.75"	22.00"	0.28
TA10-31	3 1/8"	10.75"	25.00"	0.39
TA12-13	1 3/8"	12.75"	25.00"	0.90
TA12-21	2 1/8"	12.75"	25.00"	0.84
TA12-25	2 5/8"	12.75"	25.00"	0.76
TA12-31	3 1/8"	12.75"	25.00"	0.57

\*Volumes calculated at 85% capacity.

Add a "L" at the end of the part number for a 3/4" NPT high liquid level port

## *CONTACT US*

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## *OUR MISSION*

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

## *OUR 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.

**W**estermeyer  
Industries Inc.

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**WESTERMEYERIND.COM**