

# OIL / FUEL REFINING & CONDITIONING CATALOG

# TRINITY REFINING & SAFETY SYSTEMS

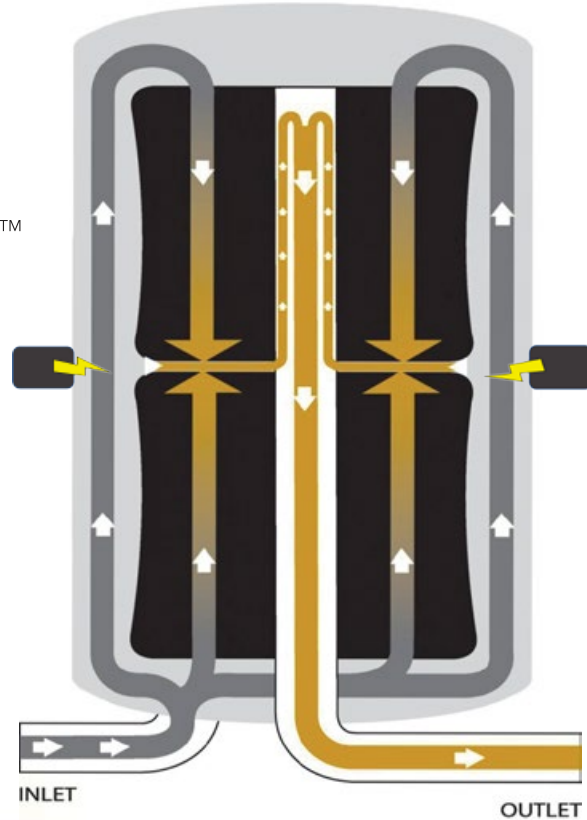
Your *Oil, Fuel, and Water* Solutions

*Minimize Contamination, and Maximize Efficiency, Plus Green Solutions  
Equals Unmatched Performance and Reduced Costs*



Charged Polarity Source

Enhances refining element's adsorption of particles and absorption of water



**Decreases Hazardous Waste**



- Waste Disposal Costs
- Replacement Fluid Costs
- Downtime

**Increases Profitability**



- Fluid Life
- Equipment Life
- Reduced Labor
- Easy To Use
- Minimal Training



- Decrease oil disposal
- Increase fuel efficiency
- Less emissions



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# TR1000 SERIES

## LUBE AND HYDRAULIC HOUSINGS

### HOUSING SPECIFICATIONS

#### TR1000H-S or TR1000H-P

Dimensions: 23.87"H x 10.62"W x 10.75"D  
Plus 20" clearance above for filter replacement  
1/2" Female NPT Inlet, Outlet, Drain STD  
Flow rate: from 2.75 to 4 GPM  
Housing capacity: 20 qt.  
Ideal Sump Range: 151–250 gallons

#### TR1000L-S or TR1000L-P

Dimensions: 23.87"H x 10.62"W x 10.75"D  
Plus 20" clearance above for filter replacement  
1/2" Female NPT Inlet, Outlet, Drain STD  
Flow rate: 2.0 GPM  
Housing capacity: 20 qt.  
Ideal Sump Range: 18–22 gallons

#### HOUSING:

H=Hydraulic  
L=Lube

#### FINISH:

S=Stainless Steel  
P=Powder Coated Silver Color



## ELEMENTS

Overall Dimensions: 7.5" dia. x 19.75" lg

### Two section TR1002

Designed to filter hydraulic and lube oils in systems on industrial equipment, heavy equipment, transmission and large diesel engines. For Viscosity of ISO 10–32 & diesel fuel SAE 5w, 10w, 15w

### Four section TR1004

Designed to filter fluids in systems on industrial equipment, heavy equipment, transmission and large diesel engines. For Viscosity of ISO 46–150 SAE 20, 30, 40

### Six section TR1006

Designed to filter oil-based EDM fluids, gear and high viscosity oils. For Viscosity of ISO 220–320 SAE 50

### Eight section TR1008

Designed to filter gear oils and very heavy viscosity oils. For Viscosity of ISO 460–1000



# TR500 SERIES

## LUBE AND HYDRAULIC HOUSINGS

### HOUSING SPECIFICATIONS

#### TR500H/S or TR500H/P

Dimensions: 14.25"H x 10.62"W x 10.75"D  
Plus 13" clearance above for filter replacement  
1/2" Female NPT Inlet, Outlet, Drain STD  
Flow rate: from 1.6 to 2 GPM  
Housing capacity: 12 qt.  
Ideal Sump Range: 31–100 gallons

#### TR500L/S or TR500L/P

Dimensions: 14.25"H x 10.62"W x 10.75"D,  
Plus 13" clearance above for filter replacement  
1/2" Female NPT Inlet, Outlet, Drain STD  
Flow rate: 1.25 GPM  
Housing capacity: 12 qt.  
Ideal Sump Range: 5–11 gallons

#### HOUSING:

H=Hydraulic  
L=Lube

#### FINISH:

S=Stainless Steel  
P=Powder Coated Silver Color



## ELEMENTS

Overall Dimensions: 7.5" dia. x 10.06" lg

### Two section TR5002

Designed to filter engine oil or fluids in systems on industrial equipment, small mobile equipment, and transmissions. For Viscosity of ISO 46–150 & diesel fuel SAE 5w, 10w, 15w, 20, 30, 40

### Four section TR5004

Designed to filter gear oils and very heavy viscosity oils. For Viscosity of ISO 460–1000 SAE 50



# TR150 SERIES

## LUBE AND HYDRAULIC HOUSINGS

### HOUSING SPECIFICATIONS

#### TR150H/S or TR150H/P

Dimensions: 12"H x 6.87"W x 8"D  
Plus 20" clearance above for filter replacement  
Stainless Steel – 1/2" Female NPT Inlet, Outlet, Drain STD  
Powder-Coated – 1/2" ORB Inlet, Outlet, Drain STD for 150s  
Flow rate: from .5 to 1.0 GPM  
Housing capacity: 4 qt.

#### TR150L/S or TR150L/P

Dimensions: 12"H x 6.87"W x 8"D  
Plus 20" clearance above for filter replacement  
Stainless Steel – 1/2" Female NPT Inlet, Outlet, Drain STD  
Powder-Coated – 1/2" ORB Inlet, Outlet, Drain STD for 150s  
Flow rate: .7 GPM  
Housing capacity: 4 qt.



## ELEMENTS

150 Series

Overall Dimensions: 5.50" dia. x 8.81" lg

### Two section TR1502

Designed to filter engine oil and fluids in systems on industrial equipment. For Viscosity of ISO 10–150 Diesel Fuel & SAE 5w, 10w, 15w, 20, 30, 40

### Four section TR1504

Designed to filter engine oil and fluids in systems on industrial equipment. For Viscosity of ISO 220–1000. SAE 50



# TR1200 SERIES

## DIESEL AND HYDRAULIC HOUSINGS

### CANISTER SPECIFICATIONS

#### TR1200-P

Dimensions: 44"H x 16.75"W x 16.75"D  
Plus 25" clearance above for filter replacement  
1 1/2" NPT Inlet, Outlet, Drain STD  
Flow rate: 5–20 GPM  
Housing capacity: 56 qt.  
Ideal Sump Range: 251–1000 gallons



## ELEMENTS

### Two section TR1202

Dimensions: 11.0" dia. x 15.25" lg.  
Designed to filter lighter viscosity fluids such as diesel fuel and light viscosity hydraulic oils up to ISO 10–32 & diesel fuel.  
SAE 5w, 10w, 15w



### Two section TR1203

Dimensions: 11.0" dia. x 10.25" lg.  
Designed to filter lighter viscosity fluids such as Diesel fuel and light viscosity hydraulic oils up to ISO 46–68 & diesel fuel.  
SAE 20

### Four section TR1204

Dimensions: 11.0" dia. x 15.25" lg.  
Designed to filter fluids in large diesel engines and systems on industrial equipment, heavy equipment, and transmissions.  
For viscosity of ISO 100–150.  
SAE 30, 40

## WATER-BASED ELEMENTS

Designed to filter water-based fluids, coolants, and water-based EDM fluids.

**1000 Series:** 7.50" dia. x 19.75" lg.

#### TR1002WG

Designed for light glycol mixtures

#### TR1004WG

Designed for higher flow rates and to filter light glycol mixtures.

#### TR1006WG

Designed for high glycol mixtures.

**1200 Series:** 11" dia. x 15.25" lg.

#### TR1202WG

Designed for light glycol mixtures

#### TR1203WG

Designed for higher flow rates and to filter light glycol mixtures.

#### TR1204WG

Designed for high glycol mixtures.

**500 Series:** 7.50" dia. x 10" lg.

#### TR5002WG

Designed to filter water-based fluids, coolants, light glycol mixtures and water-based EDM fluids.



## SPIN-ON ELEMENTS

**Trinity RSS** "Spin-On" filters provide filtration for light industrial applications, cars, campers, vans, trucks, and tractors.

### Specifications

Maximum operating pressure: 80 psi  
Flow rate: SAE 30 @ 180°F: .5 GPM  
Mounting base kit required for spin-on filters sold separately.

TR61	Used for both
TR71*	Lube and Hydraulic
TR125	applications



Convenient spin-on feature.

\*71-S Special Order Only

\*Can replace O.E.M. Bypass filters and should not be confused with full-flow filters. Spin-on elements are not changed as often as full-flow filters and are changed separately. Equipment not required to be shut down during Spin-on element changes.

## SPARE PARTS *(Use this part number when ordering spare parts)*

### TRSS-500 & 1000 Size Replacement Gaskets

- 433 (Replacement – BUNA-N Cover Gasket) for high temperature applications
- 3381 (Replacement – Silicone Cover Gasket)

### TRSS-150 Size Replacement Gasket

- 318 (Replacement – BUNA-N Cover Gasket)

### TRSS-1200 Size Replacement Gasket

- 425 (Replacement – BUNA-N Cover Gasket)

### TRSS-150, 500 & 1000 Replacement Turn-Down-Bolts

- 589 (Replacement – Lube Turn-Down-Bolt)
- 593 (Replacement – Hydraulic Turn-Down-Bolt)
- 2997 (Replacement – Stainless-Steel Hydraulic Turn-Down-Bolt)

### TRSS-500-1000 Size Replacement Covers

- 2102 (Replacement – Powder-Coated Housing Cover)
- 4286 (Replacement – Stainless-Steel Housing Cover)

### TRSS-150 Size Replacement Cover

- 3035 (Replacement – Powder-Coated Housing Cover)

### TRSS-500 & 1000 Replacement Bracket Assembly

- 2434 (One Replacement Stainless-Steel Housing Bracket Assembly)

### TRSS-150 Replacement Bracket Assembly

- 3743 (One Replacement Stainless-Steel Housing Bracket Assembly)

### TRSS-500 & 1000 Replacement Covers, Clamps & Parts

- 3922 (Replacement SS Housing Cover Clamp Assembly)
- 4199 (Replacement SS Cover Clamp T-Bolt)
- 4368 (Replacement SS Cover Clamp T-Nut)

### TRSS-150 Replacement Covers, Clamps & Parts

- 321 (Replacement SS Housing Cover Clamp Assembly)
- 3531 (Replacement SS Cover Clamp T-Bolt)
- 3532 (Replacement SS Cover Clamp T-Nut)

### PSI Gauge

- 6507 (Replacement Stainless-Steel bottom PSI Gauge 0–100)

Oil should be filtered each time it is transferred from one vessel to another because additional contamination is inevitably introduced whenever oil is handled.



## PORTABLE OIL FILTRATION SYSTEM

Removes contaminants down to a single micron, removes water and glycol. Portable design moves easily from site to site, increases fluid life, decreases hazardous waste disposal. Use on most synthetic and petroleum-based fluids. Operation/Service manual included. Applications: for most hydraulic and lube oil reservoirs in manufacturing, machine shops, injection molding, oil EDM machines. Configuration: single housing, dual housing, optional bag filter. Flow rate: 1-8 GPM



## PORTABLE COOLANT SYSTEM

Removes contaminants down to a single micron. Portable design moves easily from site to site. Increases coolant and fluid life. Decreases hazardous waste disposal. Applications: manufacturing, machine shops, water EDM machines. Configuration: single housing, bag filter. Flow rate: 4.5 GPM



## WIND TURBINE OR VERSATILE WALL MOUNT, FLOOR MOUNT AND STATIONARY SYSTEMS

These custom systems can be built to your configurations and specifications. The same Trinity RSS™ brand quality.



## CUSTOM CONFIGURATIONS

### TR3516 (3 housing) Lube Configuration



#### Stainless-Steel Housings

Used For  
Engine Oil  
Commercial and industrial size engines, compressors or turbines.  
Capacity & Flow Rate  
Requires 60 Qt./56.78 L. of makeup fluid (housings volume)  
\*Ideal sump range from 48-66 Gal./181.7-249.8 L.  
\*\*Flow rate range from 0-6 GPM/0-22.7 LPM  
Overall Dimensions & Weight  
44" high Plus 20" clearance above to change filter  
24" wide x 26" deep  
191 LB. shipping weight  
Other Specifications  
Max operating pressure, 80 PSI  
1/2" Female NPT inlet, outlet & drain ports  
Use with petroleum or synthetic fluids



### TR3520 (4 housing) Lube Configuration

#### Stainless-Steel Housings

Used For  
Engine Oil  
Commercial and industrial size engines, compressors or turbines.  
Capacity & Flow Rate  
Requires 80 Qt./75.71 L. of makeup fluid (housings volume)  
\*Ideal sump range from 64-88 Gal./242-333 L.  
\*\*Flow rate range from 0-8 GPM/0-30.3 LPM  
Overall Dimensions & Weight  
44" high Plus 20" clearance above to change filter  
24" wide x 26" deep  
220 LB. shipping weight  
Other Specifications  
Max operating pressure, 80 PSI  
1/2" Female NPT inlet, outlet & drain ports  
Use with petroleum or synthetic fluids

### Recommended Element

Model TR1002 for SAE: 5W, 10W  
Model TR1004 for SAE: 20, 30, 40  
Model TR1006 for SAE: 50

### NOTES

\*\*Flow rates are established using ISO 10-1000 viscosity oils at the standard 40°C/104° F and are subject to vary  
\*Viscosity, operating temperature, and generated contamination will affect sizing and flow rates of filtration equipment  
Most applications, elements need to be changed between 500-1000 hours for optimal performance, ideally change the element when the flow is half the starting flow or the PSI is double the starting PSI.  
Available option for water-based lubricants & hydraulic lubricants.



### Trinity RSS Fuel Conditioner

Combined with the filtering units, greatly enhances filtering performance... it's what separates us from the competition.

### Connects to the fuel line

Conditions fuel with a charged polarity source restructuring all hydrocarbon molecules (e.g., fuels, refrigerants, etc.) to better bind with oxygen resulting in improved combustion, performance, fuel efficiency, and less emission... it is a true green solution!

