





Drive Hard. Rest Easy. Get longer life from your transmission and reduce the risk of costly repair bills. Tru-Cool transmission oil coolers help maintain lower operating temperatures, significantly extending the lives of both your lubricant and your transmission. Protect your work, your warranties and your reputation with Tru-Cool—and get the advantage that comes from Dana-backed quality.



Frequently Asked Questions

What Tru-Cool heat exchanger would be best suited for my vehicle?

Please refer to page 5 of this brochure to match your vehicle to the heat exchanger that best suits your cooling needs. Due to liability issues, we can't recommend a heat exchanger.

What is the thread on LPD-4739?

Thread is 5/8" - 18 UNF 2B thread (3/8" inverted flare).

At what temperature does the thermal bypass activate?

The thermal bypass starts to open at 180° F, and is fully open at 205° F.

Do you have heat exchangers with ANS fittings? No.

Do you have heat exchangers with 1/2" hose barb fittings?

No.

How can larger tube & fin coolers offer less cooling?

Bigger isn't always better. Tube & fin designs are inefficient and have a lot of dead space, while the Tru-Cool stacked plate design puts most of the oil close to the surfaces that are in contact with passing air. In fact, when it comes to cooling, the Tru-Cool cooler is up to 30% more efficient than tube & fin designs.

Which cooler should I use for a diesel application?

In most diesel applications, the transmission line is large. The cooler's fitting should not be smaller than the lines. The smaller lines will restrict the transmission fluid flow.



The fittings supplied do not work with my application. What should I do?

We have supplied fittings for the four most common applications. Compression fittings can be purchased separately from your local distributor. Part numbers are as follows:

- 735-9139 for 5/16 lines
- 735-9140 for 3/8 lines

Where should I install the cooler?

If possible, locate the cooler in an area where it will be exposed to ram air. This helps maximize cooling. Install the cooler in series and downstream of the radiator in-tank oil cooler. This maximizes heat transfer and decreases transmission warm-up times in colder weather. Most OEM installations are plumbed this way.

How should I mount the oil cooler fittings?

Fittings can be located up, down or sideways. This advantage, plus their compact design, makes installation of our coolers quick and easy.

Should I disconnect the radiator in-tank oil cooler when I install a Tru-Cool cooler?

We don't recommend disconnecting in-tank cooler. If you are going to disconnect, consult OEM. The in-tank cooler offers additional cooling and helps preheat the transmission. In colder climates, the in-tank oil cooler should never be disconnected from the system.

Will putting an oil cooler in front of the radiator increase the engine operating temperature?

Not normally. Putting an auxiliary oil cooler system in the system decreases the temperature in the radiator in-tank oil cooler, and this in turn puts less of a load on the radiator. From a total system standpoint, the engine operating temperatures should vary little from where they were before the oil cooler was installed.

Will installing an oil cooler affect my vehicle customer warranty?

It could, depending on which cooler you install. Vehicle manufacturers do not normally approve of the installation of tube & fin coolers, since they are very flow-restrictive. LPD oil coolers, though, are virtually the only cooler now being used for OEM factory installations. Contact your local dealer for approval.

Tru-Cool Engineering Backed by Dana

Tru-Cool technology combines optimal heat transfer with improved protection against lube system failure. When automatic transmission fluid (ATF) is cold, it is more viscous. Unique Tru-Cool engineering enables ATF to flow more efficiently through the cooler at the top of the system. As operating temperatures increase, ATF becomes hotter and thinner. It is then directed through the core, where it is cooled. The result is a longer life for your transmission.

Better by Design

With their unique design, Tru-Cool transmission and engine coolers help keep the vehicles you rely on running cool, and that can save you major repair costs.

Here's how it works:

- Automatic transmission fluid (ATF) is more viscous when it's colder. Tru-Cool Low Pressure Drop (LPD) Transmission coolers have a unique cold weather passive bypass that allows the thicker ATF to flow more efficiently through the cooler at the top of the system.
- As operating temperatures increase, the ATF heats up and becomes thinner. The Tru-Cool system then directs the ATF through the core, where it is cooled.
- You get optimal heat transfer and improved protection against lube system failure.

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Off-Roading

Circle Track



Towing

Climbing Steep Grades

Drive hard. Rest easy. Check out our line of Tru-Cool products today!



Engine Oil Coolers

- Components sold as a Universal Kit (seen here) or separately
- Available in four sizes, with 1/2" NPT female fittings
- Universal Kits only work with spin-on filters with these thread sizes:

- ¾" x 16	– 18 x 1.5 mm
– 13/16" x 16	– 20 x 1.5 mm
– 1" x 12	– 22 x 1.5 mm



Mounting Hardware

• Components sold separately or as a complete kit



Tru-Cool Max

- The perfect choice when an auxiliary transmission oil cooler is your only option
- Same durable brazed aluminum construction, double the cooling performance of the Tru-Cool LPD
- Precise fin spacing for efficient air flow and cooling
- Installation hardware included



Tru-Cool LPD Transmission Oil Coolers

- 30% more cooling and 15 times less flow restriction than traditional tube & fin design
- Self-regulating for maximum cooling and running protection
- Available in stacked plate or fin & plate configurations
- Available in 13 sizes

Tru-Cool Product Line

TU Rating	Fitting Size (in.)	
7,500	11/32 hose barb	
9,800	11/32 hose barb	Sta
13,000	11/32 hose barb	cked P
20,000	11/32 hose barb	Stacked Plate: Transmission
14,400	11/32 hose barb	ransm
21,000	11/32 hose barb	ission
24,000	11/32 hose barb	
9,000	3/8 hose barb	
12,000	3/8 hose barb	Fin &
15,000	3/8 hose barb	TRU-COOL Fin & Plate: Transmission
20,000	3/8 hose barb	00L Transr
16,000	5/16 inverted flare	nissio
16,000	3/8 inverted flare*	
7,500	1⁄2 NPT	
15,000	1/2 NPT	Stac
20,500	1/2 NPT	ked Pl
29,200	1/2 NPT	Stacked Plate: Engine
		ngine
45,000	3/8 inverted flare HEX*	=
34,000	3/8 hose barb	RU-COOL Fin & Pla
22,000	3/8 hose barb	-COOL I Fin & Plate
	7,500 9,800 13,000 20,000 14,400 21,000 24,000 9,000 12,000 15,000 16,000 16,000 20,500 29,200 45,000 34,000	7,500 11/32 hose barb 9,800 11/32 hose barb 13,000 11/32 hose barb 20,000 11/32 hose barb 14,400 11/32 hose barb 21,000 11/32 hose barb 24,000 11/32 hose barb 9,000 3/8 hose barb 12,000 3/8 hose barb 15,000 3/8 hose barb 16,000 3/8 inverted flare* 7,500 ½ NPT 15,000 ½ NPT 15,000 ½ NPT 15,000 ½ NPT 15,000 ½ NPT 45,000 3/8 inverted flare HEX* 34,000 3/8 hose barb

WARNING: If vehicle is operated in temperatures below 32°F or 0°C, the cold weather bypass will be required when using Tru-Cool Max coolers. The Tru-Cool Max transmission oil cooler has durable brazed aluminum construction and is designed for those applications that bypass the internal tank cooler for extra cooling or due to contamination. Tru-Cool Max can also be installed in series for those applications where the intank oil cooler is not damaged or contaminated.

*Thread size is 5/8"-18 UNF-2B.

Tru-Cool Hardware

62K-5126	Installation Kit		723-4318
735-1101	Steel Mount Hardware	Re-installation	723-9130
735-1201	Quick Mount Nylon Ties	Re-installation	723B-4585
735-9139	Compression Fitting	5/16 trans lines (2 per kit)	723B-9129
735-9140	Compression Fitting	3/8 trans lines (2 per kit)	723A-4269
708-4739	Cold Weather Bypass	3/8 hose barb	

723-4318	TOC Hose 3/8	5 feet
723-9130	TOC Hose 11/32	25 feet
723B-4585	TOC Hose 5/16	25 feet
723B-9129	TOC Hose 3/8	25 feet
723A-4269	TOC Hose 1/2	25 feet

TRU-COOL MAX

TruCool.com

Dana Aftermarket Group PO Box 1000 Maumee, Ohio 43537 Warehouse Distributors: 1.800.621.8084 OE Dealers: 1.877.777.5360

