



End plugging problems **NOW**

Thermal Solutions manufactures a broad range of models for most standard Caterpillar® applications (more than 70), and custom models are available for almost any unique application. Our LeMaster core and adaptor assembly is available nationwide through more than 2,000 qualified radiator shops.

Improve your operational profitability and productivity

Save money by eliminating the need for a complete radiator conversion or replacement. Better heat transfer characteristics also mean less downtime and lower maintenance costs. The Thermal Solutions LeMaster core and adaptor assembly extends the useful life of Caterpillar® equipment in harsh environments:

- eliminate or reduce plugging
- reduce operational downtime
- decrease equipment repair costs
- eliminate complete radiator replacement
- reduce maintenance time and costs
- enhance equipment life
- improve operational time.

Eliminate Folded Core Radiator Plugging

Reduce downtime and extend the life of your heavy equipment with Thermal Solutions LeMaster core and adaptor assembly.



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The Thermal Solutions LeMaster Core and Adapter Assembly

Better heat transfer performance

Existing oil coolers can easily be relocated to the side of the new core, and usually require only minor modifications to the side rail gussets. But if your existing oil coolers or air conditioning condensers also need to be replaced due to plugging or corrosion, we can also supply conventional replacements mounted to the Thermal Solutions LeMaster core and adaptor assembly.

Operators can expect improved oil cooler heat transfer performance with this modification because the full frontal area of the coolers is used.

So much depends on the cooling system in the industrial equipment you use. But outside factors are constantly working against it. Humidity, trash and debris, airborne chemicals and high ambient temperatures all stress your cooling system. Add the constant vibration, pounding and flexing most industrial equipment endures, along with heat stress, and plugging becomes a serious and constant problem no matter how much maintenance you do.

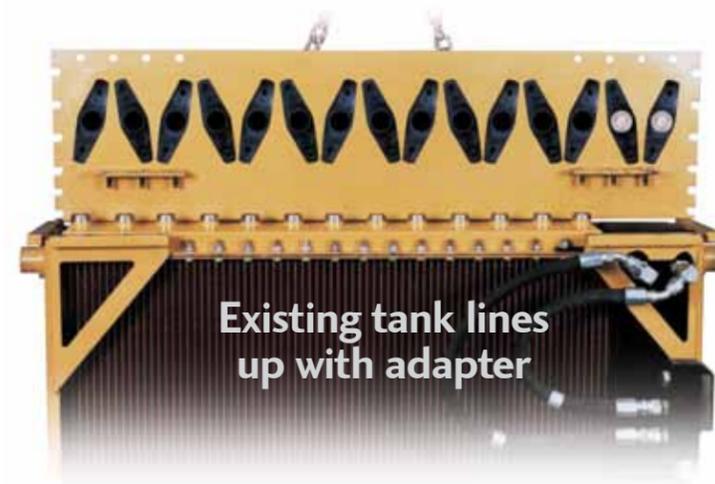
To keep your equipment running, it's critical that the radiator is engineered to withstand these external forces. The patented Thermal Solutions LeMaster core and adaptor assembly is the proven solution for folded or modular core plugging, and it virtually eliminates rust contamination.

Models to meet any operator requirement

The Thermal Solutions LeMaster core and adaptor assembly replaces Caterpillar® multi-section folded and modular cores with a one-piece conventional radiator core. Folded cores can be replaced with many different tube configurations, including in-line, canted and staggered.

All feature flat or dimpled fins that provide self-cleaning characteristics in harsh environments to minimize plugging. The full frontal area generates significant gains in radiator cooling capability. Replacement cores are available in steel, brass or heavy copper construction. Many Cat® replacement core features are also available, including:

- face dipping
- tube guards (armor shields)
- heavy headers
- fully reinforced headers
- solder-coated fins.



Existing tank lines
up with adapter

Installs quickly and easily

Your Thermal Solutions LeMaster core and adaptor assembly is pre-tested to ensure fast, easy installation. Once the radiator has been removed from the vehicle, the new assembly can be installed in a little as an hour.

Best of all, operators don't have to replace the entire radiator. The new conventional core is simply adapted to the existing Caterpillar® tank using new Caterpillar® seals.

Each stainless steel nipple on the adapter fits precisely into the existing top and bottom tanks, replacing the individual tank fittings of the original core modules. Because the original Caterpillar® seal concept is used, the replacement assembly remains solidly mounted between rubber and is able to withstand severe road vibration and twisting stress. This provides a marked improvement over the original assembly.

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