

# BUILT TO KEEP YOU ON THE WATER, NOT IN THE DOCK



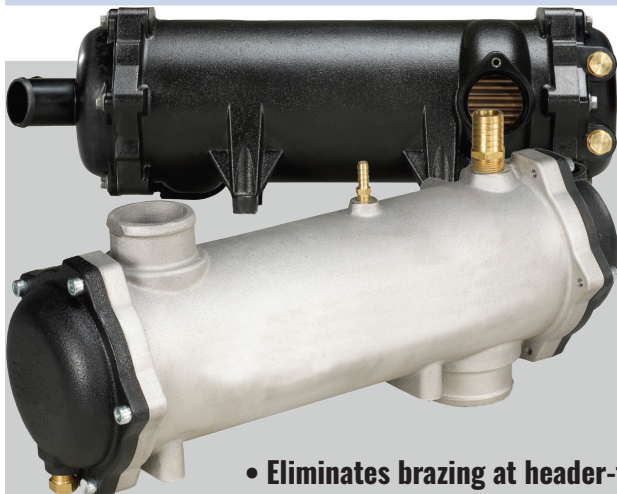
**Brazed Shell and Tube • Rubber Tube Sheet Heat Exchangers • Engineering & Development**

**There's no roadside assistance on the water—failure is not an option.** That's why leading marine engine manufacturers have relied on TSM Champ for over 60 years as North America's top OE heat exchanger supplier. Our marine coolers are built for punishing conditions—pressure, constant motion, and corrosive environments—delivering steady, reliable performance. From drop-in OE replacement exchangers and cooling bundles to custom configurations, we keep engines running strong. All coolers are assembled and tested to the highest standards at our ISO9001-certified facilities in the US and Mexico.

## BRAZED SHELL AND TUBE

**The marine cooling work horse – built for performance and economy.** Brazed shell and tube heat exchangers (BST) are a proven staple in marine cooling. TSM Champ BST coolers are built with performance-grade copper, copper-nickel, brass, or titanium, depending on the model and application. They deliver strong cooling performance, long life, and are often the most economical choice for marine systems.

- Rugged, scalable cooling
- Handles high pressure, temperature, and flow
- Removable cores for easy maintenance
- Custom configurations available



## RUBBER TUBE SHEET HEAT EXCHANGERS

**Extreme duty? No problem.** Our RTS heat exchangers use the same durable, economical brazed cores but replace brazed headers with a unique rubber header. This rubber-tube compression design outperforms traditional brazed tube-to-header construction, making it ideal for high-vibration and extreme temperature applications.

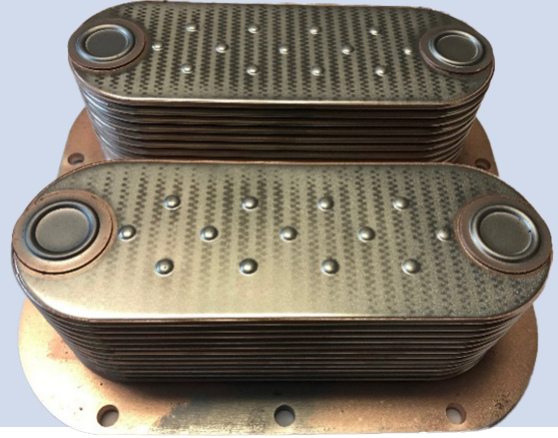
- Eliminates brazing at header-tube junction for greater durability
- Withstands vibration and thermal cycling without braze failure
- Supports alternate materials (extruded/cast housings, composite/plastic end caps) for performance, weight, or application needs

# Need OE quality or a custom cooling solution? We build both—right here in the USA.

## BRAZED STAINLESS STEEL PLATE OIL COOLERS

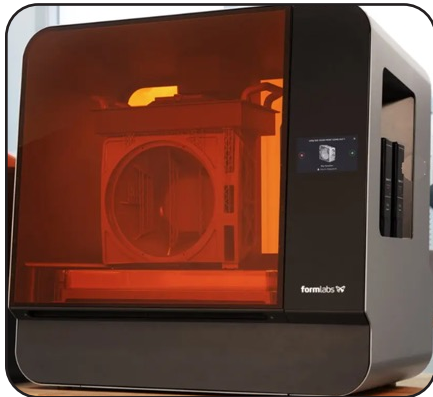
**Small but mighty** - TSM Champ stainless steel oil coolers (SSOC) pack a punch, delivering cooling performance in tight spaces.

- Superior heat transfer in a compact design
- Cost-effective for the right applications
- Vacuum brazed from high-quality copper and stainless steel
- Made in our ISO9001-certified US facility



## ENGINEERING AND DEVELOPMENT

**Custom isn't a challenge—it's our specialty.** From rare applications to high-performance systems, our engineering team thrives under pressure. With decades of hands-on experience and fast, flexible development, we deliver heat exchange solutions that go beyond expectations—designed for real-world performance, built for your exact needs.



- In-house engineering team with deep application knowledge
- Value-add solutions with integrated components
- Designed in Pro/Engineer Creo 7.0 and AutoCAD 2017
- Turnkey or collaborative design options
- Heat transfer analysis and system sizing tools
- CFD and FEA support through trusted partners
- Built with manufacturing in mind—cost-effective from day one

## OE-CERTIFIED. PERFORMANCE-DRIVEN.

TSM delivers custom cooling systems trusted by top OEMs.

Whether you're retrofitting, upgrading, or building from scratch—our team is ready.

**COOLING PROBLEMS DON'T WAIT—NEITHER SHOULD YOU.**

Call us now for OE-grade parts, custom builds,  
and real help from real experts.



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