Thermex Marine
Heat Exchangers

Tel: +44 (0)1527 62210 - www.thermex.co.uk
Introduction

Founded in 1979, Thermex is now recognised as a manufacturer that delivers innovative designs and quality products to a global customer base from its extensive range of liquid and air cooled heat exchangers.

The Thermex standard marine shell and tube range includes; oil coolers, raw water/fresh water heat exchangers, exhaust manifolds and charge air coolers. The removable header and floating tube stack allow easy maintenance supported by the availability of replacement tube bundles and service kits.

The design of Thermex tube stacks is versatile and can be adapted to fit into the bespoke housings of equipment manufacturers. Thermex heat exchangers undergo 100% pressure testing in our factory and can be supplied with full material certification by internationally recognised independent classification societies such as; Lloyds Register, Bureau Veritas, ABS, DNV and NKK is also available.

The reliability of the marine range has resulted in a well earned reputation with established companies from the industry including manufacturers of;

- Marine Engines and Systems
- Deck Handling Equipment and Winches
- Marine Hydraulic Power Packs
- Marine Generators
- Marine Gear Boxes
- Thrusters

Features and Benefits;

- Comprehensive Range
- Shell diameters from 3” to 8”
- Lengths from 175mm to 1811mm
- Variety of threaded and hose tail connections
- Floating tube stack design
- Easy to maintain and service
- Sacrificial anodes available on request
- Leak detection rings (2700 and 2800 series)
The Standard Shell and Tube 2000 Series range with aluminium body, floating tube stack held in place with “O” rings (to allow differential expansion) and 90/10 Cupro-Nickel tubes provides an efficient and proven solution for most hydraulic and industrial applications. Thermex marine heat exchangers are however operating in a more demanding environment and are therefore manufactured from higher specification materials to maximise performance and minimize the risks associated with erosion or corrosion.

Construction Materials:

**Body**

- Aluminium 6063 (2300 and 2500 Series)
- Aluminium LM6M (2700 and 2800 Series)

**Tubes**

- Standard: 90/10 Cupro-Nickel (CN102)
- Special: 70/30 Cupro-Nickel (CN107)
- Titanium: Titanium Gr.2

**Tube Plates**

- Standard: Naval Brass (CZ112)
- Special: 90/10 Cupro-Nickel (CN102)
- Titanium: Titanium Gr.2

**Headers**

- Gunmetal LG2
  (Other materials such as Aluminium Bronze, 70/30 and Titanium available upon request)

**Seals**

- Operating up to 100 °C: Nitrile
- Operating up to 120 °C: Viton
2300 Series

Maximum Working Temperature
100 °C

Maximum Working Oil Pressure
30 Bar

Maximum Working Water Pressure
10 Bar

For higher temperatures, pressures and flow rates please contact us to discuss alternative options
2500 Series

Maximum Working Temperature: 100 °C
Maximum Working Oil Pressure: 30 Bar
Maximum Working Water Pressure: 10 Bar

Minimum Sea Water Flow Rate: 3 Pass Cooler - 50 L/min
Maximum Sea Water Flow Rate: 3 Pass Cooler - 120 L/min

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2700 Series

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Maximum Working Temperature: 100 °C
Maximum Working Oil Pressure: 20 Bar
Maximum Working Water Pressure: 10 Bar

Minimum Sea Water Flow Rate: 3 Pass Cooler - 100 L/min
Maximum Sea Water Flow Rate: 3 Pass Cooler - 210 L/min

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<th>C (mm)</th>
<th>D (BSP)</th>
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For 70/30 CuNi tube stack change last digit to 6 e.g. 2714 becomes 2716
For Titanium tube stack add suffix T to part number e.g. 2714 becomes 2714T

Maximum Working Temperature: 100 °C
Maximum Working Oil Pressure: 20 Bar
Maximum Working Water Pressure: 10 Bar

Minimum Sea Water Flow Rate: 3 Pass Cooler - 100 L/min
Maximum Sea Water Flow Rate: 3 Pass Cooler - 210 L/min

For higher temperatures, pressures and flow rates please contact us to discuss alternative options.
For 70/30 CuNi tube stack change last digit to 6 e.g. 2814 becomes 2816
For Titanium tube stack add suffix T to part number e.g. 2814 becomes 2814T

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Thermex Ltd
Merse Road, North Moons Moat, Redditch, Worcestershire, B98 9HL, U.K.
Tel: +44 (0)1527 62210  -  Fax: +44 (0)1527 60138
www.thermex.co.uk  -  sales@thermex.co.uk