

# Additional Thermaline Products

## Thermaline Sanitary Plate Heat Exchangers

Thermaline offers a comprehensive plate heat exchanger line that will accommodate today's most demanding processing requirements. Thermaclip plates range from fractional surface area plates for micro flow rates to plates with excess of 6 ft<sup>2</sup> and 6" ports for high volume production. With multiple plate patterns, corrugations, draw depths, and materials, we can optimize each unit to operate at peak efficiency, lowering the cost of ownership, but more importantly providing long-term energy savings.

- 3-A and FDA compliant
- Adhesiveless clip gasket system
- Multi-section capable
- Tie-bolt and automated frames

## Hot Water Sets

- Full range of models from 25 gpm to 750 gpm
- Turns steam into clean hot water for product or process heating
- Full controls package available or integrate with your process controls



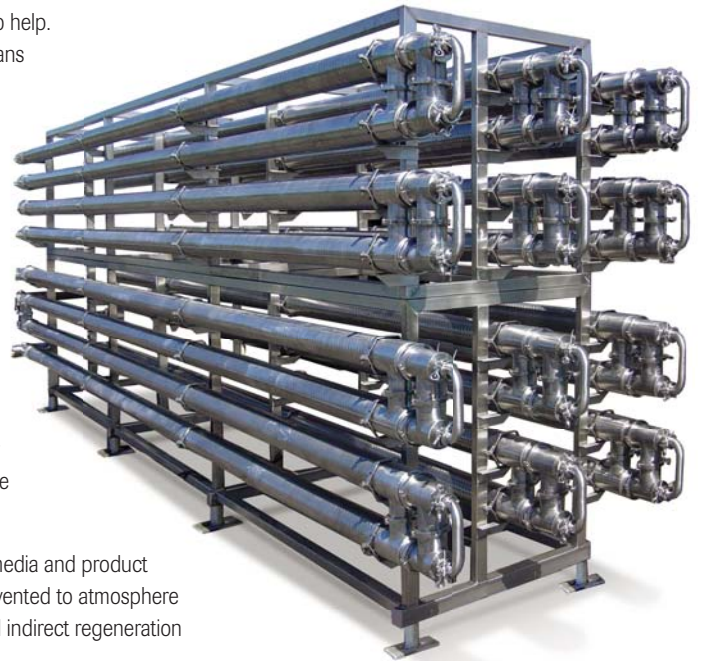
## Real World Testing Facilities

Application of our products to our customer's specific needs often requires practical testing using real world parameters. Our experienced staff of application engineers and their extensive testing facilities stand ready to help. Test process concepts by means of a thorough theoretical study, using computer analysis and in-depth knowledge of process technologies.

## Thermaline Floating Series Corrugated Tubular Heat Exchangers

Thermaline offers a complete line of tubular heat exchangers, corrugated to maximize heat transfer efficiency. Our Floating Series boasts an innovative floating tube design to minimize material fatigue and eliminate cross-contamination issues.

- Meet or exceed 3-A tubular heat exchanger design requirements
- Duofloat Sanitary corrugated floating double-tube heat exchanger
- Trifloat Sanitary corrugated floating triple-tube heat exchanger
- Multifloat Sanitary corrugated floating multi-tube heat exchanger
- Possible media and product leaks are vented to atmosphere
- Direct and indirect regeneration



# THERMALINE

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## INNOVATIVE HEAT TRANSFER SOLUTIONS

Heat exchangers are essential to many critical operations. Due to their difficulty in maintenance, they are often neglected. Their propensity for fouling significantly increases the risk of unplanned shutdown and catastrophic failure. In addition to complete failure, the time leading up to the failure can cost you thousands of dollars in wasted energy consumption. Protect your investment and stop wasting money. Inspection and upkeep is the only way to protect your equipment and reduce operating cost. Thermaline offers preventive maintenance, on-site services and complete rebuild services to ensure that your heat exchanger is operating at peak efficiency.

### In-shop Services PHE:

- Plate pack refurbishment or replacement
- Re-gasketing
- Comprehensive plate cleaning services
- NDT Dye testing for cracks and defects
- Frame refurbishment
- Performance testing
- Entire unit refurbishment (sandblasting, repainting, assembly and hydro test of unit)

### Onsite Services:

- Plate pack installation
- Pressure washing
- Re-gasketing

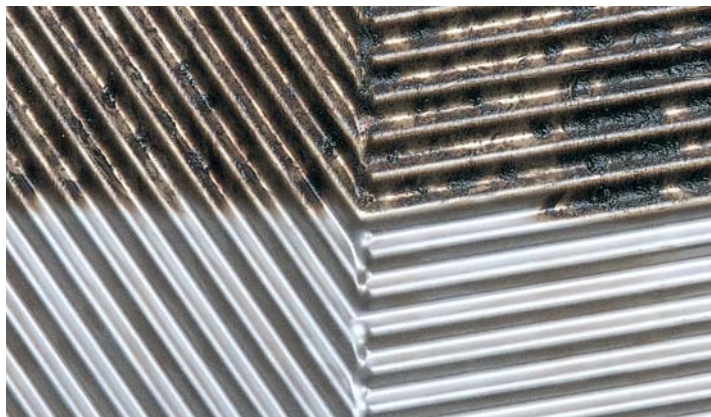
### Customer Support Services:

- **Parts and Service Specialists** - available to assist with operational and maintenance training as well as answer general questions
- **Technical Specialists** - available to assist with design, testing, development, and implementation of an effective preventive maintenance program

*An example of plate fouling that can waste energy and slow production.*



*Specializing in restoring your system to "like-new" condition.*



*Before and after cleaning.*