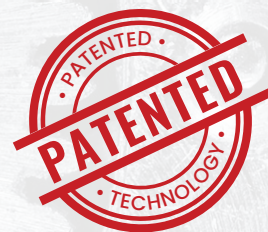
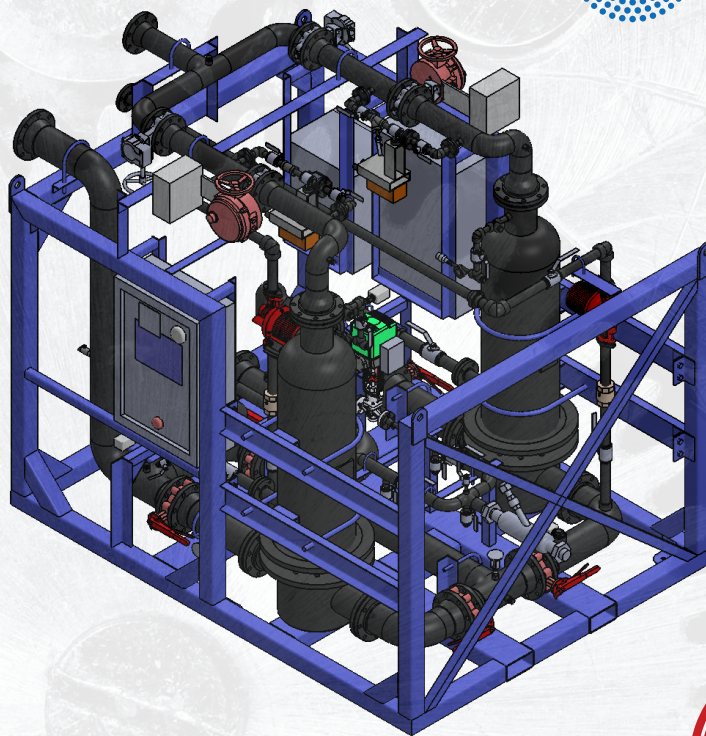


DUPLEX
Zero
Zag™



maxi·
therm™
beyond steam™

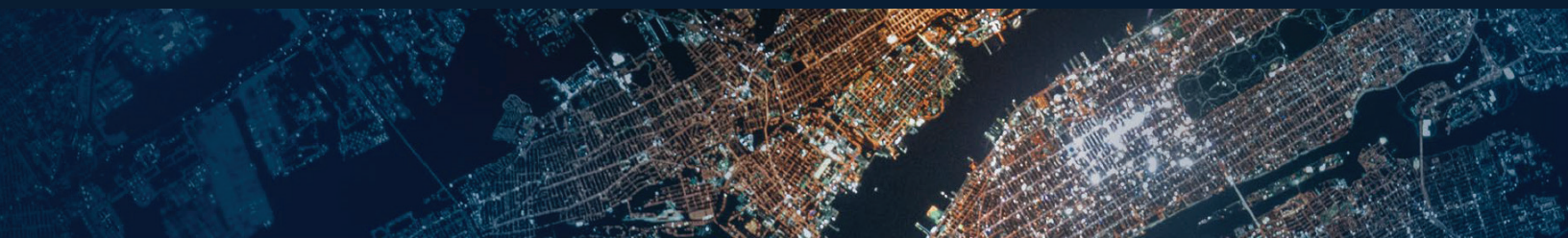


ZERO DOWNTIME
ON LAG START & ALARM SHUTDOWN

INSTANT SWITCHOVER FOR

OPTIMAL
RELIABILITY

Innovation never stops at Maxi-Therm.



Think longterm Think steam

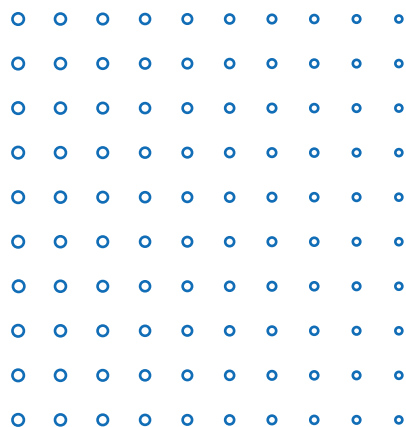
Maxi-Therm has patented technology that will eliminate lead-lag switchover delays. This innovation allows steam distribution in both heat exchangers at the same time! As with our original design, you will continue to generate energy savings, drastically reduce maintenance costs, and reduce your footprint needs. This product pushes the envelope and gets you complete reliability!

Maxi-Therm's Duplex ZeroLag™ ADVANTAGES:

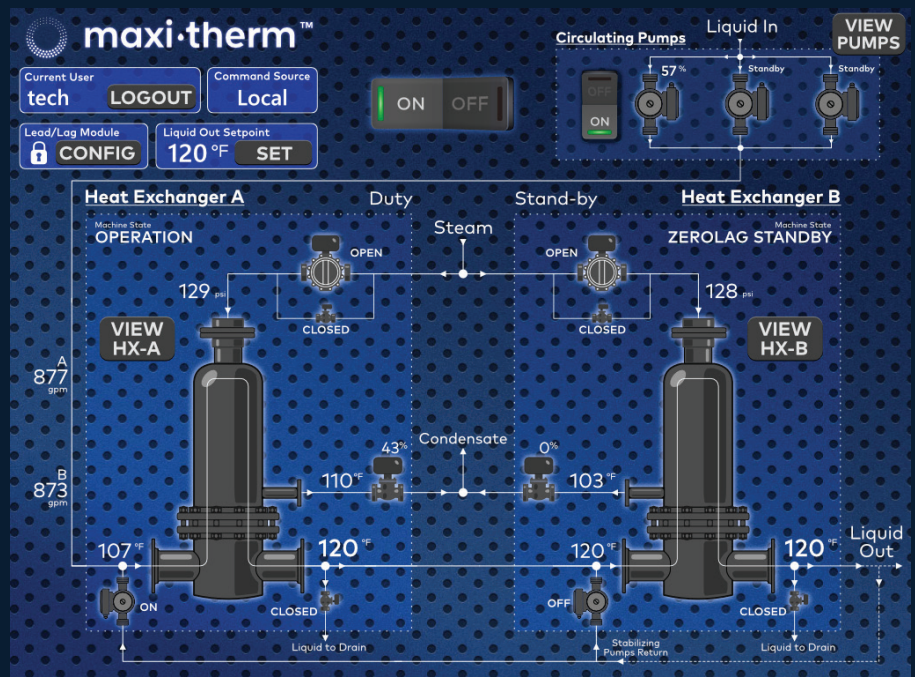
- **Second unit is continuously operating and ready to take 100% of the load.**
NO downtime, and seamless switchover.
- **Ensures accurate temperature control at all times!**
+/- 2°F (+/- 4°F on domestic hot water and process).
- **No thermal cycling and therefore no stress on the system.**
Unique design eliminates undue stress on pipes, gaskets, and all other parts.
- **Automatic start-up.**
No manual assistance, just the click of a button.
- **Parts are easily accessible for effortless maintenance.**
- **Remarkably quiet performance and smooth while in operation.**
- **Very small footprint.**

Maxi-Therm's STANDARDS:

- Our proprietary MTIntelligent™ control system.
- Integrated BACNet-ModBus communication.
- Entire system is compliant to ASME high pressure vessel section VIII.
- * Heat exchangers comply with TEMA-C standards.
- We are Internet of Things (IoT) ready, with a OPC-UA embedded server.
- No steam safety valve or condensate return pump station therefore, NO vents to the roof!
- Custom design- based on your specific project needs.



*TEMA stands for Tubular Exchanger Manufacturers Association and C-class for general commercial application. These standards are higher than ASME minimum requirements, meaning the heat exchanger will have a longer life.



What is reliability?

It's the quality of being trustworthy or of performing consistently well. What if you could have an entirely reliable system no matter what happens to your building heat or domestic hot water system? What if when one unit stops or has downtime, another one is immediately ready therefore avoiding any lag time??? This design is ZeroLag™, and it's Maxi-Therm's patented technology.

In a conventional thermal cycling heating system, two parallel units are used, and they alternate from ON to OFF. Turning steam off this way causes lag time and delays, wear and tear on parts, stress on the system, and inevitably, leaks. Eventually maintenance is required on the system and the overall energy efficiency is reduced.

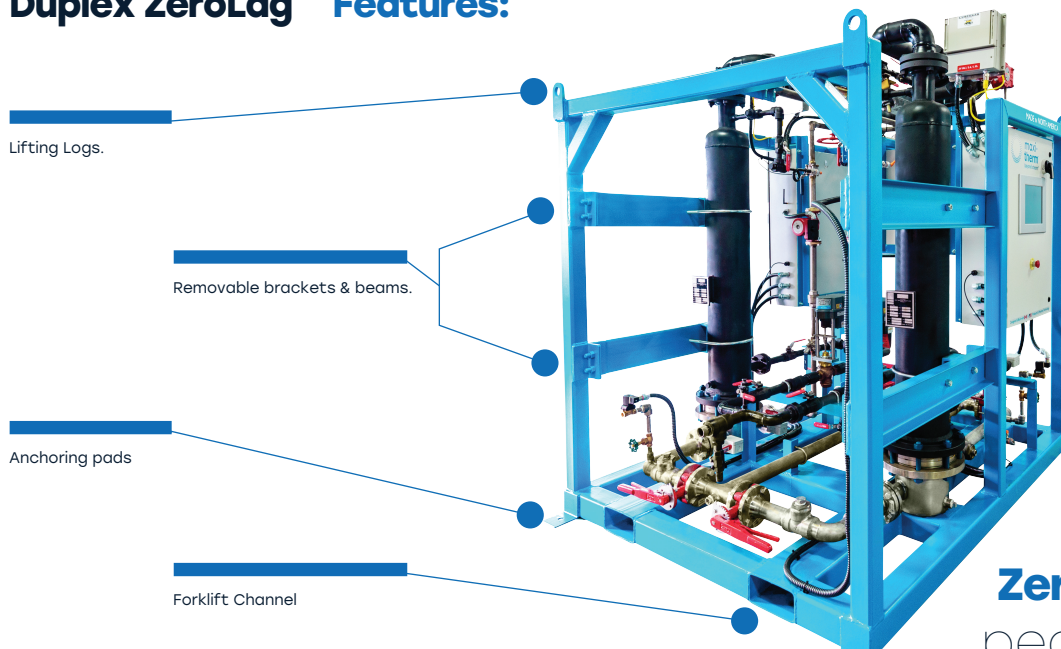
The Maxi-Therm Duplex ZeroLag™ system received a patent, in part, because flooding the heat exchanger delivers a high turndown ratio. Steam is always ON in both units which means no lag time, and they operate in "series" instead of in "parallel". This results in optimal performance, better temperature control, no thermal cycling and therefore no stress on the system.

It ensures the system is entirely reliable and always ready when the unexpected occurs.

Duplex ZeroLag™ BENEFITS:

- 40-60% reduction in footprint.
- Reduction in installation costs by 20% vs other heat transfer systems.
- 5-8% energy savings. * Steam District Energy customers can expect a total of 12-20% savings! *
- 0% flash steam system which makes this a 100% STEAM CLOSED LOOP SYSTEM.
- Accurate temperature control.
- In addition, FEATURES listed below will increase system safety and make it easy to manipulate.
- Also available with hydronic pump components in our Ultimate 5 Package™.

Duplex ZeroLag™ Features:



ZeroLag™ offers
peace of mind!

How you're covered:

PARTS	OUR LIMITED WARRANTIES
MTIntelligent™ (Maxi-Therm's proprietary control panel)	24-months after shipping or 18-months after start-up (whichever comes first).
Heat Exchanger	10-year
Control Valve	5-year
All other parts	24-months after shipping or 18-months after start-up (whichever comes first).
Maxi-Therm's Duplex ZeroLag™ offers peace of mind.	U.S. PATENT #10,955,145 B2 CANADIAN PATENT #2,883,083
Innovation never stops at Maxi-Therm.	



**CONTROL
FACTORS**

1508 "O" Street SW, Suite 101
Auburn, WA 98001-6566
PH: 425.483.5613
sales@ControlFactors.com