

# LAARS<sup>®</sup> HEATING SYSTEMS

## Commercial Portfolio



BOILERS | VOLUME WATER HEATERS | TANKS



# LAARS® COMMERCIAL PRODUCT LINE

Laars Heating Systems Company offers a wide range of high efficiency boilers, water heaters, pool heaters, tanks, and accessories for commercial heating applications. Our newest innovations are equipped with advanced features that bring tangible rewards to building owners.

Laars is an American company with its manufacturing facilities located in the United States of America. Products made by Laars are manufactured in the United States using the finest raw materials and components from around the world to deliver the highest quality and value to its customers.

## **Industry Leading, Advanced Technology**

Laars' advanced commercial heating technology ensures that every installation exceeds your customers' expectations for efficiency, reliability, and performance for years to come. Our commercial products are developed with the mechanical contractor, engineer, and building owner in mind.

At the heart of our latest gas fired boilers and volume water heaters are patent pending, stainless steel corrosion-resistant heat exchangers. An industry-leading electronic fuel-to-air ratio combustion control combined with the advanced Laars Linc® control platform result in high-efficiency performance.

Laars also offers a complete commercial electric heating portfolio, including the only US designed and assembled natural refrigerant commercial heat pump water heater. Innovation based on customer needs is what makes Laars Built to Be The Best®!



*Laars has you covered for your commercial space and water heating needs!*

**BOILERS | VOLUME WATER HEATERS | TANKS | CONDENSING | NON-CONDENSING | ELECTRIC**

## COMMERCIAL GAS - BOILERS AND VOLUME WATER HEATERS



### **MagnaTherm<sup>®</sup> FT**

High Turndown Condensing Fire Tube Technology  
1000 to 3000 MBH Boiler

- Up to 20:1 turndown
- Tru Trac™ real time O<sub>2</sub> trim compensation results in highest possible efficiencies
- Stainless steel firetube condensing heat exchanger
- Laars Linc<sup>®</sup> intuitive control
- 95% efficiency



### **MagnaTherm<sup>®</sup> HTD**

Powerful Innovation, Optimized Efficiency  
1600 to 4000 MBH Boiler & Volume Water Heater

- 20:1 turndown on all units
- Tru Trac™ O<sub>2</sub> trim compensation results in highest possible efficiencies
- Stainless steel condensing heat exchanger
- Laars Linc<sup>®</sup> intuitive control
- 95% efficiency



### **NeoTherm<sup>®</sup> XTR**

XTR-aordinary Commercial Performance  
399 to 1500 MBH Natural Gas Boiler & Volume Water Heater

- 10:1 turndown
- X-Trac™ dual venturi combustion system
- Stainless steel low pressure-drop heat exchanger
- Laars Linc<sup>®</sup> Intuitive control
- 96% efficiency



### **FT Series Commercial Wall Hung Boiler**

Floor or Wall, One boiler Does It All  
301 and 399 MBH Boiler

- Up to 10:1 turndown
- Easily convert from wall to floor with optional stand
- 316L stainless steel firetube heat exchanger
- Top and/or bottom gas and water connections
- 95% efficiency

## COMMERCIAL GAS - BOILERS AND VOLUME WATER HEATERS



### **NeoTherm<sup>®</sup>**

High Efficiency Modulating Condensing Technology  
399 to 850 MBH Propane Boiler & Volume Water Heater

- 5:1 turndown
- Integrates with building automation systems
- Stainless steel heat exchanger
- Pre-mix stainless steel burner
- 95% efficiency



### **OmniTherm<sup>®</sup>**

Near Condensing Boiler & Volume Water Heater  
1250 to 3000 MBH in Cat II / IV models

- Long life stainless steel heat exchanger
- Electronic air-to-fuel ratio control
- Laars Linc<sup>®</sup> intuitive control
- Up to 87% efficiency



### **Mighty Therm<sup>®</sup> 2**

Ideal for Replacement Applications  
200 to 2000 MBH Boiler, Water Heater, & Pool Heater

- Simple and straight forward controls with 2-stage firing
- Ordered to accommodate left or right side water connections
- Gas connection field-convertible to left or right
- 85% efficiency



### **Pennant<sup>®</sup>**

Reliable Heating Workhorse  
500 to 2000 MBH Boiler, Water Heater & Pool Heater

- Field-proven, copper finned tube heat exchanger
- Easily field-convertible to multiple piping and venting needs
- Stage firing up to 4:1
- Laars Linc<sup>®</sup> intuitive control system
- 85% efficiency



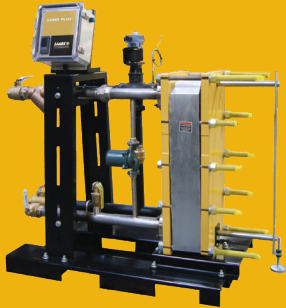
## COMMERCIAL GAS - HOT WATER GENERATION AND STORAGE



### **Laars U.H.E.<sup>®</sup>**

Ultra High Efficiency Commercial Water Heaters  
60 – 120 gallons | 125 to 499 MBH

- Down-fired premix power burner
- Fire-tube three-pass flue system
- Powered anode rods
- Up to 99% efficiency



### **Laars Plate<sup>™</sup>**

Semi-Instantaneous Double Wall Plate Water Heater  
Up to 120 gpm capacity

- Advanced easy-to-use control panel
- Compatible with medium, normal and low temperature boiler water
- ASME code tested and stamped
- Easily pair with MagnaTherm<sup>®</sup> FT for DHW heating



### **Hot Water Generators**

Water To Water or Steam to Water Applications  
175 to 1040 gallon tank capacities

- Glass lined carbon steel or stainless steel tank materials
- U-bend tube bundle design heat exchangers
- 2- or 4-pass, single or double wall options
- Copper, stainless, or copper nickel tube materials
- NPT, flanged, or grooved fittings



### **Large Volume Storage Tanks**

Storage, Buffer, Hydraulic Separators & Bladder  
130 – 5,695 gallons (depending on model)

- Bare, jacketed & insulated, rigid foam with topcoat
- Custom tanks built to your specification - vertical or horizontal
- Performance-proven linings
- ASME constructed
- Carbon steel and stainless steel

## COMMERCIAL HEAT PUMP SYSTEM SOLUTIONS

Pair with Laars stratification tanks, temperature maintenance tanks, and back up tankless electric water heaters for a full system solution.



### **Laars E-Therm<sup>TM</sup> Heat Pump**

Natural Refrigerant R744 (CO<sub>2</sub>) air-to-water heat pump water heater  
322 MBH / 95 kW

- Operates in below freezing air temperatures
- Outputs up to 180°F hot water
- Plug & Play Design, comes fully charged with CO<sub>2</sub>
- Cascade up to 16 units for large heating cell
- COP efficiency of 4.0 at AHRI standard 1300 test conditions



### **Stratification Storage Tanks**

210, 320, 500, or 1000 Gallon Tank Options

- Diffuser and tapping locations promote ideal temperature stratification to optimize heat pump system efficiency
- Multiple sensor tappings to aid in precise temperature management
- Glass lined carbon steel or stainless steel material options
- 2-1/4" high-density polyurethane foam and acrylic top coat



### **Temperature Maintenance Tanks "Swing Tanks"**

Up to 360 kW | 200 and 300 gallon

- 150 psi ASME rated and approved for 180°F operation
- Tanks are offered in glass lined carbon steel
- High density open cell foam insulation is used to minimize heat loss
- Large 3" piping connections to match flow requirements of large recirculation loop flow rates



### **Laars Linc<sup>®</sup> Pro I/O<sup>TM</sup> Tank System Control**

A Laars "plug-and-play" I/O panel to neatly organize all sensors and related inputs and outputs from the tank farm.

- Ethernet communication from the heat pump to the stratified tank system
- All heat pump functions can be accessed via the built in touch screen
- Ideal for installations where the tanks are located far from the heat pumps or when deployed within a demand response utility program





### ***Tankless Electric Water Heater***

Commercial, Light Industrial, Large Industrial applications  
4 models ranging in sizes from 5 kW to 144 kW

- Space-saving wall-mounted or floor standing
- PID temperature controller
- Simple touch operation
- Precise temperature range & flow
- Incoloy 800 elements



### ***Tank Type Water Heater***

150 to 2500 Gallon Storage

- 15 to 360 kW round vertical models
- Simple solution for a range of unique commercial water heating applications
- Meet ASHRAE 90.1b standards for heat loss



### ***Electric Heating Boiler***

60 – 300 kW | 205 to 1025 MBH

- Both Delta and Wye 3-phase available
- Built-in digital temperature control with outdoor reset capability
- 30 to 125 PSI pressure relief valve option
- Circuit breaker disconnect for each element
- 100% efficient



Check out our full line of gas-fired and electric commercial products

**WWW.LAARS.COM**



**Customer Service and Product Support:** 800.900.9276 • Fax 800.559.1583

**Headquarters:** 20 Industrial Way, Rochester, NH 03867 • 603.335.6300 • Fax 603.335.3355  
9 Brigden Gate, Halton Hills, Ontario, Canada, L7G 0A3 • 905.203.0600 • Fax 905.636.0666

**www.LAARS.com**