

LANES

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COMPANY HISTORY

Seventy-five years ago, engineer Avy Miller formed Laars Engineering as a company dedicated to the concept of heating water quickly by passing the water through finned copper tube heat exchangers, Miller realized that moving water at high velocity through "low-mass" heat exchangers, such as finned copper tubing, could heat water up to nine times faster than through cast iron vessels.

Miller first applied his "low-mass" technology heat exchanger design to the swimming pool heater market, and the Laars Engineering team designed

specialized manufacturing techniques to support their new concept. Building on the swimming pool heater success, they turned to a bigger Market. Laars technology was adapted for commercial volume water heating and applied in laundries, apartment buildings, and restaurants. The Laars heat exchangers, with their higher velocity water flow, also solved another problem — scale build-up in the

LAAPS Heating Systems Company

tubes. By controlling flow rates, lime and scale were prevented from forming on tube walls, keeping the heat transfer process clean and efficient. Laars continued to expand and grow in the U.S. and Canada. Water heating expanded into space- heating and commercial expanded into residential hydronic heating products.

> Today, Laars Heating Systems Company is still an American company with its manufacturing facility located in Rochester, NH and a distribution center in Halton Hills, Ontario, Canada. Laars serves a diverse base of customers

located all over the globe. Laars' residential and commercial products serve the hydronic heating, volume water heating, pool heating, and industrial process markets with over 20 different product lines, in sizes ranging from 50,000 to 5,000,000 BTU/hr.



Learn more about our history

LAARS CUSTOMER AND TRAINING CENTER

Our knowledge is your knowledge when you attend product training at the Laars Customer Center. This is a 'hands on' experience with current and next generation hydronic heating technologies.

- **70-seat tiered classroom** that can be used as one large room or divided into two 35-seat classrooms.
- Live-fired boilers during training: Continuously operated equipment right in



training room with BTU's as high as 2 million.



• State-of-the-art high-definition audio/video system:

Large 4K TV monitors above the equipment bays connect the classroom experience with the live-fired equipment.

Standard service training is offered throughout the year.



Our posted classes are technical and geared

to installers and technicians.

We also conduct regional training classes throughout the year with our partners across the country and you can schedule on-site sessions at your location to fit your needs upon request.

The agenda for a typical posted class includes a factory-tour, topic overview and theory through presentations and **practical experience with live-fire demonstrations and hands-on product troubleshooting**.



We hold classes covering commercial and residential Laars product. All training here at the Laars facility is no cost to the attendee once you are here.

We will cover food and hotel during your training days.





LAARS FT SERIES BOILER OR COMBI, WALL MOUNTED



The FT Series is a wall-mounted space heating or combination boiler engineered to meet all of the heating and hot water needs of the smallest to largest homes.

- 100 MBH boiler, or 140 MBH and 199 MBH boiler or combi
- High Efficiency Condensing
- 10:1 turndown (199 & 140), 5:1 turndown 100
- Stainless steel heat exchanger with welded construction
- ASME 30 psi (207kPa) working pressure
- Boiler pump wired and mounted
- Vent and air pipe lengths up to 100 equivalent feet (each)
- Cascade up to 20 heating only units
- Natural gas with propane conversion kit included
- Warranty: 10-Year limited heat exchanger and 5-Year limited parts







LAARS FT SERIES BOILER OR COMBI, FLOOR STANDING



The FT Series is a space heating or combi boiler packed with features that make installation and service easy for heating contractors.

- 199 MBH
- High Efficiency Condensing
- 10:1 turndown
- Stainless steel fire tube heat exchanger
- DHW Smart Priority™
- Bonus TT connection for high temp zone
- Integral stainless steel tank serves as low loss header and indirect mini DHW tank
- Cascade up to 20 heating only units
- Natural gas with propane conversion kit included
- Warranty: 10-Year limited heat exchanger and 5-Year limited parts







LAARS NEOTHERM[®] RESIDENTIAL CONDENSING BOILER



High in efficiency and low in emissions, the NeoTherm® condensing boiler is a fully packaged, space-saving hydronic solution.

- 80, 105, 150, 210, and 285 MBH sizes
- High Efficiency Condensing
- 5:1 turndown
- Stainless steel heat exchanger
- All connections are on top of unit
- Low NOx system
- Rated for alcove and closet installations
- Sealed combustion chamber
- Pre-mix stainless steel burner
- Horizontal or vertical direct vent
- Natural gas or propane
- Warranty: 12-Year limited heat exchanger and 2-Year limited parts





LAARS MINI-THERM® JX BOILER



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The Mini-Therm[®] JX boiler is our smallest residential boiler at 50 MBH, yet it is also available at 200 MBH for larger homes. The Mini-Therm is a proven copper and cast-iron design and is well-known for economy and durability as a long term investment.

- Available as 50, 75, 100, 125, 150, and 200 MBH sizes
- Mid Efficiency Non-Condensing
- Low-mass heat exchanger results in super-quick heating response
- Built-in draft diverter and automatic vent damper
- Compact space saving design
- Easy to install, reliable, and proven in the field over many years
- Unique hybrid two-pass heat exchanger design
- Low Loss Header and pump are standard on sizes 125, 150, and 200
- Natural gas, convertible to propane
- Warranty: 20-Year prorated heat exchanger and 1-Year parts





LAARS 😂 LAARS COMBI HEAT ® WATER HEATER



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Laars Combi $\mathsf{Heat}^{\texttt{B}}$ provides home space heating and potable hot water from a single energy-saving source.

- Available in capacities of 50 and 75-gallons
- Heat Exchanger is double wall, 1-1/2" O.D. glass coated steel coil
- Up to 10 GPM flow, with less than 5 ft. of heat exchanger head loss
- Exclusive enamel tank and heat exchanger lining provides superior protection and is infused with Microban[®], a built-in antimicrobial technology
- Fully automatic controls with built-in energy cut-off switch
- Built-in gas pressure regulation
- Heavy gauge steel automatically formed, rolled, and welded
- Brass drain valve
- 50-gallon model is FVIR compliant
- Natural gas or propane
- Warranty: 10-Year heat exchanger and 6-Year parts





LAARS LT SERIES TANKLESS WATER HEATER, WALL MOUNTED



The LT Series is a wall mounted condensing tankless water heater, packed with features.

- 199 MBH, Standard or Recirc models available
- 0.95 Uniform Energy Factor
- 11:1 turndown
- Indoor or outdoor (with optional kit)
- Capable of complying with Title 24 requirements
- Vent with PVC, CPVC, stainless steel or polypropylene
- Vent and air pipe lengths of up to 150 equivalent feet (each)
- Water leakage detector
- Cascade up to 16 Standard units
- Natural gas or propane
- Warranty: 15-Year limited and 5-Year parts





LAARS S LAARS-STOR INDIRECT WATER HEATERS



The ingenious Laars-Stor[®] indirect water heaters are engineered to provide the lowest pressure drop, the highest hot water output, and the highest amount of effective actual heat transfer area of any indirect fired water heater in the industry.

- Available in various sizes from 30 up to 120 gallons
- Single Wall, Double Wall, and Stainless
- Low heat exchanger head Loss up to 10 GPM flow with less than 5 ft. of head loss
- Factory-installed sediment-reducing device helps to minimize build-up in tank
- Heavy gauge steel tank automatically formed, rolled, and welded
- Exclusive enamel tank and heat exchanger lining provides superior protection and is infused with Microban®, a built-in antimicrobial technology
- Warranty: Limited lifetime tank and heat exchanger and 6-Year limited parts







FT SERIES LIGHT COMMERCIAL WALL MOUNTED BOILER



The FT Series light commercial wall mounted boiler is the latest in versatile design that can either be a wall mounted or floor standing installation - one boiler does it all.

- 301 and 399 MBH sizes, Indoor/Outdoor rated
- High Efficiency Condensing
- 10:1 turndown (399); 7.5:1 turndown (301)
- Stainless steel heat exchanger with welded construction
- DHW Smart Priority™
- Two independent heating curves
- BMS compatible
- Available with an optional floor stand
- Cascade up to 4 boilers
- Warranty: 10-Year limited heat exchanger and 5-Year limited parts







LAARS NEOTHERM® LIGHT COMMERCIAL VOLUME WATER HEATER 12



High in efficiency and low in emissions, the NeoTherm[®] volume water heater is a fully packaged, reliable, and affordable space-saving solution.

- 150, 210, and 285 MBH sizes
- Up to 96% Thermal Efficiency
- 5:1 turndown
- Stainless steel heat exchanger
- All connections are on top of unit
- Low NOx system
- Rated for alcove and closet installations
- Pre-mix stainless steel burner
- Horizontal or vertical direct vent
- Cascade up to 8 units
- Natural gas or propane
- Warranty: 8-Year heat exchanger and 1-Year parts





LAARS NEOTHERM® BOILER OR VOLUME WATER HEATER



The NeoTherm[®] commercial unit is a direct vent, sealed combustion, condensing hydronic boiler or volume water heater with a great history of reliability and efficiency.

- Boiler sizes: 399 to 850 MBH
- Volume Water: 399 to 850 MBH
- High Efficiency Condensing
- 5:1 turndown
- Stainless steel heat exchanger
- Zero clearance to combustibles for tight installations
- Less Than 10ppm NOx
- Vent up to 100 feet, horizontal or vertical
- Cascade up to 8 units
- Propane Only
- Warranty Boiler: 10-Year heat exchanger and 1-Year parts
- Warranty Volume Water: 8-Year heat exchanger and 1-Year parts



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LAARS NEOTHERM[®] LC BOILER OR VOLUME WATER HEATER



NeoTherm[®] LC is a direct vent, fully modulating, sealed combustion boiler or water heater with high efficiency. It features spark ignition system and low NOx emissions for a package that's easy to use and easy on the environment.

- 1,000 or 1,200 MBH sizes
- High Efficiency Condensing
- Stainless steel heat exchanger
- 10:1 turndown
- Communicates with Building Automation Systems
- Vent and air pipe lengths of up to 100 equivalent feet (each), horizontally or vertically
- Cascade up to 8 units
- Indoor and Outdoor Certified
- Propane Only
- Warranty Boiler: 10-Year heat exchanger and 1-Year parts
- Warranty Water Heater: 8-Year heat exchanger and 1-Year parts





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LAARS NEOTHERM[®] XTR BOILER OR VOLUME WATER HEATER 15



The NeoTherm[®] XTR commercial boiler is a direct vent, sealed combustion, condensing hydronic boiler or volume water heater that offers XTR-aordinary performance.

- Sizes: 399 to 1500 MBH
- High Efficiency Condensing
- 10:1 turndown
- Low pressure drop stainless steel heat exchanger
- Zero clearance to combustibles for tight installations
- Laars $\mathsf{Linc}^{\texttt{R}}$ advanced control system, with $\mathsf{Vari-Prime}^{\texttt{R}}$ variable speed boiler pump control
- Vent up to 150 feet, horizontal or vertical
- Cascade up to 8 units
- Common vent multiple units
- Natural gas
- Warranty Boiler: 10-Year heat exchanger and 1-Year parts
- Warranty Volume Water: 8-Year heat exchanger and 1-Year parts



Click for





At the heart of the MagnaTherm[®] FT is the robust, highly efficient Laars CF-Tech[™] (contoured flue tube technology) firetube heat exchanger.

- 1,000, 1,500, 2,000 and 3,000 MBH sizes, Indoor/Outdoor rated
- High Efficiency Condensing
- 20:1 turndown
- CF-Tech™ Contoured Flue Tube Technology
- Tru Trac® O2 Trim Control maintains high efficiency throughout the entire modulation range
- Laars Linc[®] with temperature control, diagnostics, outdoor reset capability, and easy access for field wiring
- Many voltage packages available; 120, 240, 480 or 600 VAC
- Cascade up to 8 units
- Indoor and Outdoor Certified
- Natural Gas
- Warranty: 10-year heat exchanger and 1-Year parts





LAARS MAGNATHERM[®] HTD BOILER OR VOLUME WATER HEATER 17



Onboard every MagnaTherm[®] HTD is the unique Tru Trac[®] O₂ trimming system and Laars VARI-PRIME[®] pump control that balances 20:1 turndown, combustion, and water flow to dramatically reduce boiler energy consumption.

- 1,600, 2,000, 2,500, 3,000, 3,500 and 4,000 MBH sizes
- High Efficiency Condensing
- High accuracy air gas control valve system with 20:1 turndown gas train
- Many voltage packages available; 120, 240, 480 or 600 VAC
- Intelligently laid out control panel. Limits, alarms, gateways and terminal blocks are all accessible from the front via a hinged panel
- Laars Linc® with temperature control, diagnostics, and outdoor reset capability
- Cascade up to 8 units
- Indoor and Outdoor Certified
- Natural Gas
- Warranty: 10-Year heat exchanger and 1-Year parts





LAARS MAGNATHERM® BOILER OR VOLUME WATER HEATER



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The field-proven Laars MagnaTherm[®] is the right choice when selecting a high efficiency space-conscious condensing boiler or water heater, with a slim vertical design for installation in tight spaces.

- 1,600, 2,000, 2,500, 3,000, 3,500 and 4,000 MBH sizes
- High Efficiency Condensing
- 5: 1 turndown
- Small footprint, slim vertical design, and removable top section help it fit into tight spots
- Forward mounted low voltage panel for easy wiring and trouble-shooting
- Laars Linc[®] with temperature control, diagnostics, outdoor reset capability, and easy access for field wiring
- Cascade up to 8 units
- Indoor and Outdoor Certified
- Natural Gas or Propane
- Warranty: 10-Year heat exchanger and 1-Year parts





LAARS OMNITHERM[®] BOILER OR VOLUME WATER HEATER



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Laars OmniTherm[®] includes advanced features that bring tangible results to building owners with it's industry leading electronic air-to-fuel ratio combustion control.

- 1,250, 1,500, 1,750, 2,000, 2,500 and 3,000 MBH sizes
- High Efficiency, Non-Condensing
- Up to 7:1 turndown
- Corrosion resistant stainless steel heat exchanger
- Low return water temperatures allowed
- Groove lock fittings or optional flanges
- Laars Linc[®] with temperature control, diagnostics, and outdoor reset capability
- Cascade up to 8 units
- Indoor and Outdoor Certified
- Natural Gas
- Warranty: 10-Year heat exchanger and 1-Year parts





LAARS MIGHTY THERM[®] 2 BOILER OR VOLUME WATER HEATER 20

The Mighty Therm[®]2 series boilers and volume water heaters are easy to use, install, and maintain. It utilizes basic cap and bulb temperature controls and a low voltage terminal strip for simple troubleshooting.



- 400 MBH Boiler, 200 and 400 MBH Volume Water
- Mid Efficiency, Non-Condensing
- NOx below 10 ppm
- 2-stage firing
- Immune to thermal shock down to 30°F
- Operates in altitudes up to 10,000 feet
- Tolerant of glycol systems
- Waterways able to operate in a maximum water hardness of 17 gpg
- Volume water heater models supply temps from 130°F to 200°F
- Indoor and Outdoor Certified
- Natural Gas or Propane
- Warranty: 10-Year heat exchanger and 1-Year parts





LAARS MIGHTY THERM[®] 2 BOILER OR VOLUME WATER HEATER 21

The Mighty Therm[®]2 has been specifically designed to meet the needs of the replacement market by offering simple and straightforward controls with 2-stage firing. It features modular construction that separates the burner trays, gas train, and blower assembly.





- 500, 750, 1,000, 1,250, 1,500, 1,750, and 2,000 MBH sizes
- Mid Efficiency, Non-Condensing
- Glass-lined cast iron or bronze headers and non-ferrous waterways
- NOx below 10 ppm
- 2-stage firing
- Maintains efficiency and low NOx levels at low and high fire
- Immune to thermal shock down to 30°F
- Operates in altitudes up to 10,000 feet
- Tolerant of glycol systems
- Washable air filter
- Gas supply right or left side (field convertible)
- Natural Gas or Propane
- Warranty: 10-Year heat exchanger and 1-Year parts



LAARS PENNANT BOILER OR VOLUME WATER HEATER

The Pennant[®] line of fan-assisted, volume water heaters ranks among the industry's most versatile systems for hot water applications.



- 500, 750, 1,000, 1,250, 1,500, 1,750, and 2,000 MBH sizes
- Mid Efficiency, Non-Condensing
- Laars Linc[®] with temperature control, diagnostics, and outdoor reset capability
- 2-stage, 3-stage, and 4-stage firing
- Copper Heat Exchanger
- NOx below 10 ppm
- Immune to thermal shock down to 30°F
- Operates in altitudes up to 10,000 feet
- Tolerant of glycol systems
- Waterways able to operate in a maximum water hardness of 17 gpg
- Volume Water Heater models supply temps from 125°F to 210°F
- Indoor and Outdoor Certified
- Natural Gas or Propane
- Warranty: 10-Year heat exchanger and 1-Year parts



• Also available as a low temp volume water heater



LAARS U.H.E. COMMERCIAL WATER HEATER

Utilizing exclusive designs and technologies, the Laars U.H.E. outperforms the competition when it comes to installation flexibility, quiet operation and, most importantly, efficiency.



- 60, 100, and 119 gallon sizes with several BTU options
- Ultra High Efficiency
- Integrated Control system combines temperature control, diagnostic codes, and system ignition functions
- Direct Spark Ignition for improved operational dependability and durability
- Premix Power Burner automatically increases or decreases fuel flow when a change in combustion air is detected
- Exclusive enamel tank and heat exchanger lining provides superior protection and is infused with Microban[®], a built-in antimicrobial technology
- Flexible venting vertically or horizontally with either 2", 3", 4", or 6" PVC, CPVC or ABS (not approved for Canada) vent pipe
- ASME Code available on all models
- Three pass flue system combustion gases moving at a high velocity
- Zero inch clearance for unsurpassed installation flexibility
- Natural Gas or Propane
- Warranty: 3-Year tank and 1-Year parts



LAARS MIGHTY THERM AP COMMERCIAL POOL HEATER

The MightyTherm® Pool Heaters are a proven and durable pool heater.



- 500 to 5,000 MBH
- Flow switch standard on all models
- Electronic ignition
- Automatic gas valve
- Electronic flame supervision
- High temperature refractory firebox liner to 2000°F for greater efficiency
- Integral header flanges for easier serviceability
- Glass-lined or bronze headers for corrosion resistance
- Integral lined copper tube heat exchanger
- Natural Gas
- Warranty: 5-Year heat exchanger and 1-Year parts



LAARS MIGHTY THERM[®] 2 COMMERCIAL POOL HEATER

Mighty Therm[®]2 ranks among the industry's most versatile and environmentally friendly systems for superior pool heating.



- 500, 750, 1,000, 1,250, 1,500, 1,750, and 2,000 MBH sizes
- Mid Efficiency, Non-Condensing
- Immune to thermal shock down to $30^\circ F$
- Operates in altitudes up to 10,000 feet
- Fan-assisted combustion system
- 120 VAC, 60 Hz single phase power
- NOx emissions below 10 ppm
- Wiring terminal strip makes electrical troubleshooting easy
- Indoor and Outdoor Certified
- Natural Gas or Propane
- Warranty: 5-Year limited and 1-Year parts



LAARS PENNANT COMMERCIAL POOL HEATER

The Pennant[®] line of high-performance commercial pool heating boilers from Laars delivers efficiency levels of 85% or more.



- 500, 750, 1,000, 1,250, 1,500, 1,750, and 2,000 MBH sizes
- Air and vent connections may be on top or back of the Pennant and are field convertible
- Laars Linc[®] with temperature control, diagnostics, and outdoor reset capability
- NOx emissions below 10 ppm
- Built-in automatic mixing system to help eliminate condensation in the heat exchanger
- Allows return water temperatures as low as 60°F without condensation
- Uses room air or outside air for combustion
- Reversible vent and intake air terminals
- Optional rack-mounting
- Reversible gas and water connections
- Indoor and Outdoor Certified
- Natural Gas or Propane
- Warranty: 5-Year limited and 1-Year parts



LAARS COMMERCIAL ELECTRIC BOILER



The Laars commercial electric boiler is a reliable, ASME approved, compact solution for commercial heating needs. Digital temperature control provides automatic turndown as loads decrease, and circuit breakers for each element provide a safe and easy way to disconnect individual elements.

- 60kW to 300kW in a small footprint
- 208, 240, 480 and 600 Volt, 3-Phase options
- 100% Efficient: Electric resistance heating results in 100% efficiency
- No combustion also means zero local emissions
- Outdoor reset control and multi-boiler staging capability
- Venting Not Required. Makes for a more compact and cleaner installation
- Warranty: 5-Year limited and 1-Year parts





AARS COMMERCIAL ELECTRIC WATER HEATER



The Laars commercial electric water heater is the electric solution for a wide range of commercial water heating applications. These units meet ASHRAE standards for heat loss, making it possible for a maximum of 4 watts per square foot of tank surface energy loss, resulting in big savings and operating efficiency!

- 150 psi ASME code glass-lined tank
- ASME temperature and pressure relief valve
- Internal fusing (above 120 amps)
- Incoloy heating elements
- Magnesium anode rods
- Immersion thermostats
- Manual reset high limit
- Channel iron skid base
- Approved for 180F^o operation
- Lifting lug access
- Warranty: 3-Year limited tank



LAARS 🥘 TANKLESS ELECTRIC WATER HEATERS

H-Series





N-Series



Laars' tankless electric water heaters are a leader in commercial-grade tankless electric water heating systems.

- Sizes range from 5 kW to 144 kW $\,$
- Flow Ranges from 0.5 to 50 GPM
- All voltages are available
- Pre-fabricated skid kits are available for all N-Series heaters
- NSF/ANSI 372
- ANSI HLW option for 63kW and over
- Warranty: 8-Year heat exchanger, 4-Year heating elements and 2-Year on electrical parts





LAARS | LAARS PLATE INDIRECT FIRED PLATE AND FRAME WATER HEATER 30



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Laars Plate is a high efficiency, high output, water heating control system that has a small footprint and yet has the flexibility to work with several building management systems.

- Up to 120 gpm capacity
- Advanced easy-to-use control panel
- Compatible with medium, normal and low temperature boiler water
- Easily pair with MagnaTherm $^{\ensuremath{\mathbb{R}}}$ FT for DHW heating
- Ideal for new or retrofit installations, single or multiple units and no tank required
- Warranty: 5-Year heat exchanger
 - 1-Year parts









Product Details



LAARS 🥘 JACKETED STORAGE TANKS



Applications include use with boilers, hot water circulation systems, and where large dump volume is required.

- 80, 120, and 200 gallon capacities
- Heavy gauge steel automatically formed, rolled, and welded
- ASME construction available
- Exclusive enamel tank and heat exchanger lining provides superior protection and is infused with Microban[®], a built-in antimicrobial technology
- 200-gallon models come standard with ASME construction
- 2" NPT factory-installed true dielectric waterway fittings extend water heater life
- 120 and 200-gallon ASME models have 2-1/2" connections
- 2" NPT spud allows for a rear water connection (120 gallon models only)
- Warranty: Prorated 5 to 25 Years, depending on model





LAARS LARGE VOLUME STORAGE TANKS



CUSTOMIZABLE

• 30" - 84" diameter

- 193 6138 gallons (Jacketed up to 2256 gallons)
- Designed for storage of potable water up to 180°F (82°C)
- Constructed and certified to ASME Section IV, HLW for 125psi (862 kPa)
- Optional 150 psi (1034 kPa) rating
- Carbon steel with red oxide primer exterior, 316L stainless steel, or duplex stainless steel
- Exclusive enamel tank and heat exchanger lining provides superior protection and is infused with Microban $^{\circledast}$, a built-in antimicrobial technology
- Optional double glass lining or epoxy lining
- Manway (12"x16") standard on 42" dia and larger tanks optional on others
- Optional 4"x 6" hand hole for cleanout
- Magnesium anodes provide added corrosion protection for carbon steel tanks
- Two water connections located on the front for ease of installation
- Horizontal tanks require saddles





Available for use with hot water or steam, Model XT hot water generators are built from Laars custom storage tank and single- or doublewall heat exchangers. A variety of sizes and configurations are available.



- U-bend heat exchangers built into a large volume tank
- 2 or 4 pass heat exchangers
- Single or double wall heat exchanger construction
- Available for hot water or steam
- Large capacity in a small space
- Vertical or horizontal configurations
- Can be used with bare, insulated or jacketed tanks
- Select tank from standard designs or customize as needed
- 180°F & 160 psi standard (higher options available)
- Heat exchangers can be copper, stainless steel or copper-nickel
- 304 stainless steel tubesheet (other options available)
- Control systems designed for each system
- Consult factory for sizing



AARS COMMERCIAL CHILLED WATER BUFFER TANKS



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Chilled water buffer tanks from Laars® Heating Systems are designed to increase water volume capacity, in relation to the chiller capacity. Low water volume systems may require additional buffer capacity to eliminate excessive chiller cycling, poor temperature control, or erratic system operation. A chilled buffer tank can buffer the system volume.

- Custom sizes available upon request
- Available in carbon steel with red oxide primer exterior, 316L stainless steel, or duplex stainless steel
- Tanks constructed and certified in accordance with ASME Section VIII, Div. I Code, rated for 125 psi at 450°F
- Spray foam insulation, R-16 value with acrylic top coat available
- Stabilized water temperature return
- Can be ordered in vertical or horizontal orientation
- Horizontal tanks are supplied with sparging tube











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The Laars hydraulic separator tank is designed to help reduce short cycling of a boiler system and separate building and boiler circulation. The Laars Hydraulic Separator uses stored boiler water to buffer the system load when the boiler is producing more BTU's than what the building can handle. When the building has a minimal demand, it pulls from the tank allowing the boiler to "rest". The Laars Hydraulic Separator is piped so the building flow is separate from the boiler flow, allowing independent circulation.

- Standard sizes range from 120 gallon up to 860 actual gallons
- Custom sizes and additional fittings are available
- ASME Sec. VIII, Div 1
- 125 psi
- Bare tank
- 5 year warranty
- 4" base ring
- Options: Manway, hand-hole, topcoat R-16 insulation or painted steel jacket, and additional fittings





LAARS EXPANSION BLADDER TANKS



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Laars thermal expansion bladder tanks are built with a large service opening to allow the bladder replacement easily and without having to remove the tank from its mounting.

- 11 to 1040 Gallons
- NSF 61 heavy duty butyl rubber replaceable bladder for potable water
- Constructed and certified to ASME Section VIII, Div 1
- 125psi (862 kPa) design pressure 150psi (1034 kPa) optional
- Factory charged to 12 psi
- 240°F maximum temperature
- Can be used with glycol systems
- 4" skirt tank support

`S_M_

- Lifting lugs are standard
- Carbon steel with red oxide primer exterior, 316L stainless steel, or duplex stainless steel
 - Available with optional foam and topcoat exterior
 - Large flanged opening for easy bag replacement







Literature Downloads

WWW.LAARS.COM ONLINE RESOURCES







Rebates





Product Videos





RightSpec, Volume Water Heater Sizing

Co-op Merchandise



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Parts Identification

Revit Drawings



FULL-LINE POCKET CATALOG





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Laars maintains a policy of continuous improvements and therefore reserves the right to change specifications without notice.

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24-01 Document 9158M