LAARS-STOR® SERIES

Indirect Water Heaters

• Outstanding Performance
• Fast Recovery
• Superior Corrosion Resistance
• Limited Lifetime Warranty
Laars® Heating Systems proudly offers industry leading, high volume, single-wall and double-wall indirect water heaters.

All model types feature extremely efficient heat exchangers that produce copious amounts of domestic how water - making them the perfect match for your boiler, heat pump or solar heating system. Whether the Laars-Stor indirect water heater is for use with an existing boiler system or new one, rest assured that you’re choosing the best the industry has to offer. That’s why all residential Laars-Stor and LAARS-STOR2 SERIES indirect water heaters offer a Limited Lifetime Tank and Heat Exchanger Warranty!!

THE LAARS-STOR ADVANTAGE

SAVE MONEY AND ENERGY
Indirect water heaters use the home’s boiler, heat pump or solar heating system as the heat source. They are usually the least expensive way to provide hot water.

HIGH PERFORMANCE
Laars-Stor models feature an extremely efficient heat exchanger made of a glass-lined carbon steel tubing or high grade stainless steel giving exceptional first hour delivery and high volumes of hot water.

INSTALLATION EASE
These water heaters require no fuel or venting materials. They connect directly to an existing boiler.

LOW PRESSURE DROP
Laars-Stor Series indirect water heaters were designed to minimize pressure drop so that customers get the hot water they want at the pressure they have come to expect.

LIMITED LIFETIME WARRANTY
Laars-Stor models were designed and built for problem free and reliable service. We offer this warranty because of our confidence in the dependability and durability of the product.

AHRI CERTIFIED
These water heaters are rated by the Air Conditioning, Heating and Refrigeration institute to provide accurate performance data generated by following the toughest industry standards.
INTELLIGENTLY DESIGNED
Performance & Reliability Built In

Each Laars-Stor Series model includes the Laars Total Performance System that reduces sediment build-up, increases first-hour rating and minimizes temperature build-up in the tank. This results in higher efficiency, longer operational life and minimizes fuel bills.

Steel Tank—Heavy gauge steel automatically formed, rolled and welded to assure a continuous seam for glass lining.

OR

Stainless Steel Tank—Long life, corrosion resistant titanium stabilized type 444 stainless steel alloy.

Reliable, High Output Heat Exchanger—Select from stainless steel or glass lined material options to best match your home’s hot water needs.

Immersed Adjustable Honeywell Aquastat—All Laars-Stor indirect tanks are supplied with a fast acting immersion aquastat for precise and automatic temperature control. This ensures you have hot water when you need it!

T&P Relief Valve Installed

Premium Insulation—Up to 2 inches of non-CFC foam insulation results in superior heat retention, saving you money.

Supply and Return Connections located on the front of the tank for easier and less cluttered connection to boiler.

Brass Drain Valve.
The ingenious Laars-Stor single wall was engineered to provide the lowest pressure drop, the highest hot water output and the highest amount of effective heat transfer area of any indirect fired water heater in the industry.

- **Heat Exchanger**—Single wall glass lined steel. 1-1/2" outside diameter.
- **Total Performance Sediment Reduction System**—Increases first hour delivery of hot water while minimizing temperature build-up at top of tank.
- **Three Protective Anode Rods**—Provides corrosion protection for long trouble-free service.
- **Glass Lined Tank**—Protected from the corrosive effects of hot water by a proprietary porcelain-like ceramic coating.
- **Immersed Adjustable Aquastat**—Supplied with a fast acting immersion aquastat for automatic temperature control.
- **Factory Installed Nipples**—For longer water heater life, easier installation.
- **Potable Water Connections**—¾” NPT (120 Gallon 1” NPT) connections on 8” centers.
- **Supply and Return Connections**—1” NPT female connections located on the front of the water heater.
- **2” Non-CFC Foam Insulation**—Saves energy by dramatically reducing heat loss.
- **AHRI Certified Ratings**—Provides accurate performance data, based on the toughest industry standards, for proper comparison of products.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Ship. Weight Approx. lbs. kg</th>
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<tbody>
<tr>
<td>LS-SW-2-30-L</td>
<td>164 74</td>
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<tr>
<td>LS-SW-2-40R-L</td>
<td>185 85</td>
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<tr>
<td>LS-SW-2-50R-L</td>
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<td>LS-SW-2-80-L</td>
<td>250 114</td>
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<td>LS-SW-2-129-L</td>
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<table>
<thead>
<tr>
<th>Model Number</th>
<th>First Hour Delivery @ 135°F (Gal.)</th>
<th>Continuous Draw Rating @ 135°F (Gal./Min.)</th>
<th>Standby Heat Loss Rating (°F/Hr.)</th>
<th>Minimum Heat Req. Rate (BTU/Hr.)</th>
<th>Minimum Heat Source Flow Rate (Gal./Min.)</th>
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<tr>
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<table>
<thead>
<tr>
<th>Model Number</th>
<th>DOE Water Heater Performance (Gal.) @ 140°F</th>
<th>Approximate Boiler Output Needed for Rating (BTU/Hr.)</th>
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<tbody>
<tr>
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<td>LS-SW-2-40R-L</td>
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**AHRI Certified Water Heater Ratings**

<table>
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<tr>
<th>Model Number</th>
<th>First Hour Delivery @ 135°F (Gal.)</th>
<th>Continuous Draw Rating @ 135°F (Gal./Min.)</th>
<th>Standby Heat Loss Rating (°F/Hr.)</th>
<th>Minimum Heat Req. Rate (BTU/Hr.)</th>
<th>Minimum Heat Source Flow Rate (Gal./Min.)</th>
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<td>13.7</td>
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<tr>
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<td>295</td>
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</tr>
<tr>
<td>LS-SW-2-80-L</td>
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<td>325</td>
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<td>13.7</td>
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<td>157,000</td>
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**Doe Water Heater Performance**
• **Heat Exchanger**—Single wall glass lined steel. 1-1/2” outside diameter.

• **Total Performance Sediment Reduction System**—Increases first hour delivery of hot water while minimizing temperature build-up at top of tank.

• **Three Protective Anode Rods**—Provides corrosion protection for long trouble-free service.

• **Glass Lined Tank**—Protected from the corrosive effects of hot water by a proprietary porcelain-like ceramic coating.

• **Immersed Adjustable Aquastat**—Supplied with a fast acting immersion aquastat for automatic temperature control.

• **Factory Installed Nipples**—For longer water heater life, easier installation.

• **Potable Water Connections**—1” NPT connections on 8”centers, all models.

• **Supply and Return Connections**—1” NPT female connections located on the front of the water heater.

• **2” Non-CFC Foam Insulation**—Saves energy by dramatically reducing heat loss.

• **AHRI Certified Ratings**—Provides accurate performance data, based on the toughest industry standards, for proper comparison of products.

• **Brass Drain Valve.**

• **T&P Relief Valve Installed**—All models feature opening on side of tank.

• **Five year Limited Warranty on Steel Tank and Heat Exchanger.**

• **One Year Limited Warranty on Parts.**

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### Commercial Single-Wall Indirect Water Heater

Laars-Stor single wall commercial models incorporate a super-efficient heat exchanger. Made of 1.5” diameter carbon steel tubing and coated with a glass-lining, it has a total heat surface area of 27.2 square feet. The result is an exceptional first hour delivery and vast hot water reserves.

### Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Capacity</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Shipping Weight</th>
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<tr>
<td>LS-SW-65C-5</td>
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<td>53</td>
<td>135</td>
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<td>LS-SW-80C-5</td>
<td>67</td>
<td>24</td>
<td>61</td>
<td>59</td>
<td>150</td>
<td>52½</td>
<td>134</td>
<td>59¼</td>
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<tr>
<td>LS-SW-120C-5</td>
<td>107</td>
<td>28½</td>
<td>72</td>
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<td>159</td>
<td>55½</td>
<td>142</td>
<td>63¼</td>
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### AHRI Certified Water Heater Ratings

<table>
<thead>
<tr>
<th>Model Number</th>
<th>First Hour Delivery @ 135°F (Gal.)</th>
<th>Continuous Draw Rating @ 135°F (Gal./Hr.)</th>
<th>Standby Heat Loss Rating (°F/Hr.)</th>
<th>Minimum Output Rate of Heat Source (BTU/Hr.)</th>
<th>Minimum Heat Source Flow Rate (Gal./Min.)</th>
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<tr>
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<td>14.0</td>
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### DOE Water Heater Performance

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<tr>
<th>Model Number</th>
<th>Maximum First Hour Rating (Gal.) @ 140°F</th>
<th>Continuous Draw Rating (Gal./Min.) @ 140°F</th>
<th>Approximate Boiler Output Needed for Rating (BTU/Hr.)</th>
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<tr>
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<tr>
<td>LS-SW-80C-5</td>
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<td>LS-SW-120C-5</td>
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### Heat Exchanger Head Loss

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<tr>
<th>GPM</th>
<th>5</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
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<td>Ft of Hd. Loss</td>
<td>0.64</td>
<td>1.63</td>
<td>2.55</td>
<td>3.67</td>
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**LAARS-STOR2®**

**RESIDENTIAL DOUBLE-WALL INDIRECT WATER HEATER**

The Laars-Stor2 features a patented double-wall carbon steel heat exchanger coil coated with a glass-lining for corrosion resistance and long life. The Laars-Stor2 supplies a first hour rating of 120 to 158 gallons per hour.

- **Heat Exchanger**—Double wall 1½” O.D. glass coated steel coil. The double wall coil ensures that hydronic fluid remains separate from potable water.
- **Low Heat Exchanger Head Loss**—Greatly reduces the required pump size with 10 gpm max flow at less than 5 ft. of head.
- **Total Performance Sediment Reduction System**—Increases first hour delivery of hot water while minimizing temperature build-up at top of tank.
- **Glass Lined Tank**—Protected from the corrosive effects of hot water by a proprietary porcelain-like ceramic coating.
- **Immersed Adjustable Aquastat**—Supplied with a fast acting immersion aquastat for automatic temperature control.
- **Water Connections**—¾” NPT factory installed true dielectric fittings. Extends water heater life and eases installation.
- **2” Non-CFC Foam Insulation**—Save energy by dramatically reducing heat loss.
- **Two Protective Aluminum Rods**—Provides added protection against corrosion for long trouble-free service.
- **Supply and Return Connections**—¾” NPT female connections are located on the front of the water heater.
- **AHRI Certified Ratings**—Provides accurate performance data, based on the toughest industry standards, for proper comparison of products.
- **Brass Drain Valve.**
- **T&P Relief Valve Included**—All models feature opening on side of tank.
- **Steel Tank**—Heavy gauge steel automatically formed, rolled and welded to assure a continuous seam for glass lining.
- **Limited Lifetime Warranty on Steel Tank and Heat Exchanger.**
- **Six Year Limited Warranty on Parts.**

### Residential Laars-Stor2®

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>A</th>
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<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Shipping Weight</th>
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<td>41 104</td>
<td>22 56</td>
<td>34½ 87</td>
<td>41½ 120</td>
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<td>195 89</td>
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<td>LS-DW250L-464</td>
<td>43 163</td>
<td>46½ 117</td>
<td>22 56</td>
<td>40½ 102</td>
<td>47½ 120</td>
<td>5½ 14</td>
<td>27½ 70</td>
<td>11½ 29</td>
<td>205 93</td>
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<tr>
<td>LS-DW265L-464</td>
<td>57 216</td>
<td>59 150</td>
<td>22 56</td>
<td>53½ 135</td>
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<td>235 107</td>
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<td>LS-DW280L-464</td>
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<td>59 150</td>
<td>24 61</td>
<td>52½ 134</td>
<td>59½ 152</td>
<td>5½ 14</td>
<td>27½ 70</td>
<td>11½ 29</td>
<td>255 116</td>
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**Heat Exchanger Head Loss**

<table>
<thead>
<tr>
<th>GPM</th>
<th>2</th>
<th>5</th>
<th>8</th>
<th>10</th>
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<td>Fr. of Hhd. Loss</td>
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**AHRI Certified Water Heater Ratings**

<table>
<thead>
<tr>
<th>Model</th>
<th>First Hour Rating @ 135°F (Gal./Hr.)</th>
<th>Continuous Draw Rating @ 135°F (Gal./Hr.)</th>
<th>Minimum Heat Req. Rate (BTU/Hr.)</th>
<th>Standby Heat Loss Rating (°F/Hr.)</th>
<th>Minimum Heat Source Flow Rate (Gal./Min.)</th>
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<tbody>
<tr>
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<td></td>
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**DOE Water Heater Performance**

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<tr>
<th>Model</th>
<th>Maximum First Hour Rating (Gal./Hr.) @ 120°F</th>
<th>Continuous Draw Rating (Gal./Hr.) @ 115°F</th>
<th>Approximate Boiler Output Needed for Ratings (BTU/Hr.)</th>
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<td>55,000</td>
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<td>87 122 0.9 1.6</td>
<td>55,000</td>
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</tr>
<tr>
<td>LS-DW265L-464</td>
<td>96 138 0.9 1.6</td>
<td>55,000</td>
<td></td>
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<tr>
<td>LS-DW280L-464</td>
<td>106 148 0.9 1.6</td>
<td>55,000</td>
<td></td>
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</table>
The Laars-Stor SS utilizes a superior grade of type 444 passivated stainless steel for the tank and the heat transfer coil. This construction is lightweight and also resists pitting while minimizing inter-granular and stress corrosion. The Laars-Stor SS models provide superior thermal conductivity for higher efficiency.

- **Stainless Steel Tank and Heat Exchanger**—Made from chromium molybdenum - titanium ferritic 444 stainless steel alloy.
- **Stainless Steel Heat Exchanger**—Single-wall 1” (25mm) O.D. stainless steel coil. Maximum supply temperature from the boiler must not exceed 240°F (116°C).
- **Factory Installed Sediment Reducing Inlet Tube**—Sediment reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank (excluding LS-SS-120-L).
- **Immersed Adjustable Honeywell Aquastat**—Supplied with a fast acting immersion aquastat for automatic temperature control (adjustable from 80-160°F / 27-71°C).
- **Supply and Return Connections**—1” NPT female connections are located on the front for both the boiler supply and boiler return.
- **Insulation System**—2” (51mm) Non-CFC foam insulation covers the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity.

### AHRI Certified Water Heater Ratings

<table>
<thead>
<tr>
<th>Model Number</th>
<th>First Hour Delivery Rating</th>
<th>Continuous Draw @ 135°F</th>
<th>Standby Heat Loss Rating</th>
<th>Minimum Heat Required Rate</th>
<th>Minimum Heat Source Flow Rate</th>
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<tr>
<td></td>
<td>Gal./Hr.</td>
<td>Gal./Hr.</td>
<td>°F/Hr.</td>
<td>BTU/Hr.</td>
<td>Gal./Min.</td>
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<td>199,000</td>
<td>9.0</td>
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### Model Specifications

| Model Number | U.S. Gal. | Liters | in. | mm. | in. | mm. | in. | mm. | in. | mm. | in. | mm. | in. | mm. | lbs. | kg. |
|--------------|-----------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| LS-SS-30-L   | 29        | 110    | 31\frac{3}{4} | 803 | 24 | 610 | 22 | 572 | 32\frac{1}{2} | 826 | 10 | 254 | 22\frac{3}{4} | 575 | 16\frac{1}{2} | 419 | 75 | 34 |
| LS-SS-40-L   | 38        | 142    | 38\frac{1}{4} | 972 | 24 | 610 | 29\frac{3}{4} | 740 | 38 | 987 | 38 | 987 | 10 | 254 | 24\frac{1}{2} | 629 | 18\frac{1}{4} | 476 | 91 | 41 |
| LS-SS-50-L   | 50        | 189    | 48 | 1219 | 24 | 610 | 39\frac{3}{4} | 1010 | 48\frac{1}{4} | 1241 | 48\frac{1}{4} | 1241 | 10 | 254 | 29\frac{3}{4} | 743 | 19\frac{1}{4} | 495 | 103 | 47 |
| LS-SS-75-L   | 73        | 274    | 65\frac{1}{4} | 1667 | 24 | 610 | 56\frac{1}{4} | 1435 | 66\frac{1}{4} | 1683 | 66\frac{1}{4} | 1683 | 10 | 254 | 33\frac{1}{2} | 854 | 19\frac{1}{4} | 495 | 142 | 64 |
| LS-SS-120-L  | 111       | 420    | 63\frac{3}{4} | 1610 | 30\frac{3}{4} | 768 | 65\frac{1}{4} | 1670 | 53\frac{1}{4} | 1359 | 21\frac{1}{4} | 68 | 11\frac{1}{4} | 299 | 40 | 1016 | 31\frac{1}{4} | 797 | 217 | 98 |
All units are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa).

Warranty:
For products installed in USA, Canada, and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

Suitable for Water (Potable) Heating and Space Heating
Toxic chemicals, such as those used for boiler treatment, shall NEVER be introduced into the potable water side. The potable side of this unit may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance. The heat exchanger side of the unit may be used in space heating applications.

Notes: AHRI certified ratings were obtained with a heat source output rate and flow rate as specified and a 180°F boiler water supply temperature. Other results will be obtained under different conditions.

Notes: DOE water heater performance ratings are based on 200°F boiler water temperature and 50°F potable water inlet temperature.