DEFINITIONS

ASTM

British Thermal Unit (Btu)
The British thermal unit is a unit of measure equal to the amount of heat necessary to raise the temperature of one pound of water one degree Fahrenheit.

Conduction
A process of heat transfer whereby heat moves through a material or between two materials that are in direct contact with each other.

Convection
The transfer of heat by movement of a liquid or a gas. Natural Convection is a result of movement caused by changes in density as temperature changes within a fluid medium such as a liquid or a gas. Forced Convection is the result of mechanical force moving a fluid or gas.

Crimp
An insert fitting for Central PEX tubing. A crimp requires a crimp ring or clamp of comparable quality.

Cross-Linking
A chemical process that changes the molecular structure of a plastic material by linking otherwise independent hydrocarbon chains. Cross-Linking creates a three-dimensional network of hydrocarbons.

Differential Temperature (ΔT)
The difference in temperature between two opposing masses used to describe the potential that exists for heat transfer.

FIP
Female iron pipe thread.

FPT
Female American National Taper Pipe Thread.

HDPE
Abbreviation for high-density polyethylene.

Head Pressure
The pressure available at the outlet side of a pump, or inlet side of a flow-conducting system. It is expressed in feet of head, which is the height of a column of water that can be supported by a pump against standard atmospheric pressure.

Heating Load
The amount of energy (in Btu/hr) required for space heating.

Heat Loss
The transfer of heat from a contained space to the atmosphere surrounding it. Heat loss is the result of thermal conductivity through walls, windows, roofs and other building envelope components, as well as infiltration losses due to the exchange of inside air with outside air.

Infiltration Losses
The loss of heat energy due to infiltration which is expressed in Btu/hr. Infiltration losses are calculated from the air changes per hour, differential indoor/outdoor temperature and the heat carrying capability of the lost air.

Mean Radiant Temperature
The average temperature of all the surfaces in a room.

MPT
Male American National Taper Pipe Thread.

NPT
American National Taper Pipe Thread is a standard thread used in the US.

PE
Abbreviation for polyethylene.

Perimeter Area
Describes the first four feet around the exposed perimeter of the slab.

PEX
Abbreviated for cross-linked polyethylene.

Pressure Loss
The loss of fluid pressure between any two points in a flow-conducting system, expressed in pounds per square inch (psi). The loss of pressure is caused by friction against the tubing walls and is further influenced by the tubing size, length and texture of the inside wall of the tube, fittings, valves and other components. Pressure loss is also influenced by the temperature and viscosity of the fluid.

R-Value
A measure of a material's ability to resist the flow of heat. R-Value is expressed in Btu/hr/ft² and calculated by the formula 1/U=R.

Radiation
The process in which energy in the form of rays of light or heat is transferred from body to body without heating the intermediate air acting as the transfer medium.

Sweat Fitting
Soldered copper pipe fitting.

Upward Load
The amount of Btu/hr required to overcome the envelope losses of the room.

Under-Slab Insulation
The amount of insulation (expressed in R-Value) under the interior area of the slab.

Thermal Conductivity (K)
A property of materials that indicates the amount of heat (in Btu) that penetrates one square foot of a uniform material one inch thick in one hour for each degree Fahrenheit difference in temperature between the surfaces. It is expressed in Btu/(hr/ft²/˚F). The thermal conductivity of PEX is 0.22 Btu/(hr/ft²/˚F).

Thermal Mass
Any material used to store heat energy or the affinity for heat energy.

U-Value
The capability of a material to transfer heat. Used to describe the conductance of a material or composite of materials in construction. U-Value is expressed in Btu/hr/ft² and is the inverse function of R-Value.

Velocity
The speed of fluid at a specific flow, expressed in feet per second (fps or ft/sec).

Zone
An area of a radiant panel served by one or more loops, and individually controlled (either manually or automatically).
**Existing Boiler**

(Direct Plumbed) Depressurized

- **Thermostatic Valve**
- **Water-to-Water Heat Exchanger**
- **Existing Boiler**
- **Hot Supply**
- **Return**

**NOTE**

Outdoor furnace water temperature setpoint should be set at 185˚F minimum.

**NOTE**

A pump must be installed in the hot supply line between the outdoor furnace and thermostatic valve.

**Existing Boiler - Pressurized**

(with Wraparound Pump)

- **Thermostatic Mixing Valve**
- **Water-to-Water Heat Exchanger**
- **Existing Boiler**
- **Hot Supply**
- **Return**
- **Optional Valves**
- **Circulation Pump**
- **Wraparound Pump**

**NOTE**

Outdoor furnace water temperature setpoint should be set at 185˚F minimum.

**NOTE**

A pump must be installed in the hot supply line between the outdoor furnace and thermostatic valve.

**NOTE**

Installers must comply with all applicable codes and regulations.

**NOTE**

Wraparound Pump runs continuously circulating through the water-to-water heat exchanger maintaining the water temperature in the existing boiler.

**NOTE**

For illustration purposes only, water heater styles may vary.
Water-to-Air Heat Exchanger and Water Heater System

NOTE: A certified electrician must perform the electrical installation.

This horizontal assembly must not exceed a height of 4 inches (10 cm) above top of water heater.

A pump must be installed in the hot supply line between the outdoor furnace and thermostatic valve. Outdoor furnace water temperature setpoint should be set at 185°F (85°C) minimum.

For illustration purposes only, water heater styles may vary.

Installer must comply with all applicable codes and regulations.

On multi-speed fans, cap and tape off any extra wires.

This configuration allows use of a 24-volt thermostat on older forced-air units with no control board.
**Kickspace Heater/Forced Air System**  
*(with Water Heater and Down Draft Furnace)*

- **Hot Supply from Outdoor Furnace**
- **Bleeder Screw**
- **Zoning Pump**
- **Thermostatic Mixing Valve**
- **Kickspace Hydronic Heater (Inline Setup)**
- **Forced Air Furnace (down draft)**
- **Heat exchanger**
- **90 degree fittings**
- **Water-to-Water Heat Exchanger**
- **Multi-Heater Option**
- **Installer must comply with all applicable codes and regulations.**

**NOTE**
- A pump must be installed in the hot supply line between the outdoor furnace and thermostatic valve.
- Outdoor furnace water temperature setpoint should be set at 185°F minimum.
- This horizontal assembly must not exceed a height of 4 inches above top of water heater.

For illustration purposes only, water heater styles may vary.
**Radiant Heat**
Multi Zone In-Floor

**Closed-cell Polystyrene Thermal Insulation**

**Greenhouse Heating Options**

- **Forced Air**
- **Radiant PEX piping under the table**

**NOTE**
When using mesh style tables, PEX piping must be protected from UV rays.

4 mil. black poly
Pools and hot tubs typically have high water flow rates, from 30 to 50 gpm. Because the MPN Series is a high efficiency heat exchanger and does not require the full pool gpm flow, a bypass balancing valve must be used to bypass a portion of the pool water. There should be a shut-off valve installed on the supply and return line to and from the pool. Close these valves and fully open the bypass balancing valve when chemically treating ("shocking") the pool or hot tub to stop the flow of the low pH water to the heat exchanger. These valves can be opened only after the pH has reached the safe level as recommended by the pool or hot tub manufacturer. Return the bypass balancing valve to the previously adjusted position.
Radiant Heat Single Zone

NOTE
Outdoor furnace water temperature setpoint should be set at 185°F minimum.

NOTE
A pump must be installed in the hot supply line between the outdoor furnace and thermostatic valve.

NOTE
Installer must comply with all applicable codes and regulations.

Multi Zone In-Floor

NOTE
1/2" Central PEX® Piping is spaced 6" from outside wall. Remaining piping is spaced 12" on center.

NOTE
PEX Hangers should be installed every 18".

Installation uses approximately 10' of 1" copper.

The amount of 1/2" PEX will vary depending on installation.

Installer must comply with all applicable codes and regulations.

Minimal heat radiated downward
**Baseboard System**  
(Three Way Zone Valve Controlled)

**NOTE**  
Outdoor furnace water temperature setpoint should be set at 185°F minimum.

This horizontal assembly must not exceed a height of 4 inches above top of water heater.

**NOTE**  
A pump must be installed in the hot supply line between the outdoor furnace and thermostatic valve.

Water-to-Water Heat Exchanger

Hot Supply from Pump on Outdoor Furnace

Thermostatic Valve

Return to Outdoor Furnace

Thermostatic Mixing Valve

Zone Valve

Bypass (B)

Return to Outdoor Furnace

Main (C)

24-Volt Thermostat (p/n 8200008)

24-Volt Transformer (p/n 188)

110-Volt Supply

**NOTE**  
Installer must comply with all applicable codes and regulations.

**NOTE**  
The outdoor furnace is not intended to be the only source of heat.

**NOTE**  
Outdoor furnace water temperature setpoint should be set at 185°F minimum.

**NOTE**  
The outdoor furnace is not intended to be the only source of heat.

The popularity of brazed plate heat exchangers lies in their small size and highly efficient heat transfer surface. Brazed plate heat exchangers begin as stainless steel plates specially embossed to critical tolerances. The embossed surface increases fluid turbulence, thereby increasing the heat transfer coefficient and lowering potential fouling.

The plates are stacked for maximum use of the surface area and to form two independent circuits running in alternating layers. The two fluid circuits are configured to flow in opposite directions (counterflow) to further enhance the dissipation of heat. This honeycomb of passages provides high heat transfer, low fluid pressure drop and complete separation of the two fluids.

The assembled units are then brazed in a vacuum furnace for consistent quality. As a final step, a helium pressure test is used to ensure leak-free performance. The result is a very rugged, highly efficient and reliable heat exchanger, built to last.

Brazed plate heat exchangers are available in a variety of sizes and plate configurations (see page 7).

**Plate Information**

- **Totally sealed construction**
- **Heat Performance**
- **Heat Transfer Surface**
- **One-Year Limited Warranty**
- **Optional Mounting Bracket**
- **Pipe Thread Connections**
- **Honeycomb of passages**

**Smaller Size**
Up to 60-percent smaller than traditional devices.

**High Performance**
Higher heat transfer coefficients and lower fouling rates.

**Lower Installation Cost**
Costs less than traditional devices.

**Easy Installation**
Easier to install and connect.

**Lower Shipping Cost**
Smaller size and less weight makes it easier and more inexpensive to transport.
For illustration purposes only:
- Water heater styles may vary.
- Size of incoming line may vary (depending on application).
- Location of thermostat may vary.

NOTE
If heating loops are above manifolds, additional controls (e.g., zone valve or flow check) may be needed to prevent ghost flow (see Radiant Heat with Flow-Check Valve Illustration).

This horizontal assembly must not exceed a height of 4 inches above top of water heater.

NOTE
Installer must comply with all applicable codes and regulations.

NOTE
4 x Pipe Dia. Max. (e.g., for 1" pipe, fittings must not be more than 4" apart)

NOTE
Outdoor furnace water temperature setpoint should be set at 185˚F minimum.

NOTE
A pump must be installed in the hot supply line between the outdoor furnace and thermostatic valve.

NOTE
Water-to-Water Heat Exchanger

NOTE
Central PEX® Hot Supply

NOTE
Optional 3-Way Bypass Valve

NOTE
Thermostatic Mixing Valve

NOTE
Thermostatic Valve

NOTE
Hot Supply from Pump on Outdoor Furnace

NOTE
Return to Outdoor Furnace

NOTE
Hot Supply

NOTE
Forced Air Furnace

NOTE
Plenum

NOTE
Plenum

NOTE
For Floor Radiant / Forced Air

Dual System
(In Floor Radiant / Forced Air)

Chimney Reinforcement Recommendations

for CL 4030, CL 5036, CL 6048, CL 7260 and Pallet Burner

Three Sections
When three sections of chimney are being used a Chimney Band Clamp Kit (p/n 4518) for each joint and a Chimney Base Bracket Kit (p/n 4519) are recommended.

Four Sections
When four sections of chimney are being used a Chimney Band Clamp Kit for each joint, a Chimney Base Bracket Kit and a Chimney Support Brace Kit are recommended.

Five or More Sections
When five or more sections of chimney are being used a Chimney Band Clamp Kit for each joint, a Chimney Base Bracket Kit, a Chimney Support Brace Kit and a Chimney Attachment Ring (p/n 774) are recommended.

Fall Zone
If objects are placed in the fall zone of the chimney, a Chimney Guy-Wire Band Kit (p/n 778) or additional bracing is recommended.

*Chimney Support Brace Chart

<table>
<thead>
<tr>
<th>p/n</th>
<th>Models</th>
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<tbody>
<tr>
<td>4554</td>
<td>CL 4030, CL 5036 &amp; CL 6048</td>
</tr>
<tr>
<td>4542</td>
<td>CL 7260 &amp; Pallet Burner</td>
</tr>
</tbody>
</table>

*Chimney Support Brace Chart

Two 1" electrical conduit (not supplied)

Two 3/4" electrical conduit (not supplied)

• Additional bracing may be necessary in certain areas such as those subject to severe weather, winds, freezing rain, etc.

• Inspect all bracing bi-annually for integrity.
Chimney Reinforcement Recommendations
for E-Classic 1450 and E-Classic 3250

Fall Zone
If objects are placed in the fall zone of the chimney, a Chimney Guy-Wire Band Kit (p/n 778) or additional bracing is recommended.

Additional bracing may be necessary in certain areas such as those subject to severe weather, winds, freezing rain, etc.
* Inspect all bracing bi-annually for integrity.

Chimney Reinforcement Recommendations
for Maxim M255

Five or More Sections
When five or more sections of chimney are being used, a Chimney Band Clamp Kit (p/n 9535) for each joint and a Chimney Attachment Ring (p/n 774) are recommended.

Fall Zone
If objects are placed in the fall zone of the chimney, a Chimney Guy-Wire Band Kit (p/n 776) or additional bracing is recommended.

NOTE
* Additional bracing may be necessary in certain areas such as those subject to severe weather, winds, freezing rain, etc.
* Inspect all bracing bi-annually for integrity.
**DIMENSIONS AND MEASUREMENTS**

### Classic & Pallet Burner

**Furnace Base and Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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</thead>
<tbody>
<tr>
<td>CL 7260</td>
<td>89&quot;</td>
<td>71&quot;</td>
<td>7&quot;</td>
<td>22&quot;</td>
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<td>71&quot;</td>
<td></td>
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<tr>
<td>CL 6048***</td>
<td>73&quot;</td>
<td>10&quot;</td>
<td>22&quot;</td>
<td>7&quot;</td>
<td>22&quot;</td>
<td>7&quot;</td>
<td>22&quot;</td>
<td></td>
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<tr>
<td>CL 5036***</td>
<td>63&quot;</td>
<td>10&quot;</td>
<td>53&quot;</td>
<td>22&quot;</td>
<td>7&quot;</td>
<td>7&quot;</td>
<td>7&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**NOTICE:**

Do not use any combustible materials for the foundation.

---

**Maxim M255**

**Furnace Base Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<td>FURNACE MEASUREMENTS</td>
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<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
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<td>CL 4030</td>
<td>144</td>
<td>53</td>
<td>66</td>
<td>53</td>
<td>66</td>
<td>144**</td>
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<td>CL 7260</td>
<td>70</td>
<td>93</td>
<td>88.5</td>
<td>78</td>
<td>89</td>
<td>104**</td>
<td>4&quot;</td>
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<tr>
<td>Pallet Burner</td>
<td>70</td>
<td>93</td>
<td>88.5</td>
<td>78</td>
<td>89</td>
<td>104</td>
<td>260***</td>
</tr>
</tbody>
</table>

*Measurement includes two 4 ft. chimney sections.
**Measurement includes three 4 ft. chimney sections.

---

**NOTE:**

Furnace must be installed on a noncombustible surface or foundation that incorporates an enclosure that will prevent supply and return lines from possible exposure to sunlight, fire, or physical damage that may be caused by an occurrence outside the furnace enclosure.

---

**Furnace Base Dimensions:**

- **CL 5036***:
  - Front: 47" x 7" x 71"

- **CL 7260**:
  - Front: 89" x 71" x 71"

**Optional 2,440 lb Hopper with Furnace Base Dimensions**

- **Maxim M255 Measurements**

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
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<th>D</th>
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<th>G</th>
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<tbody>
<tr>
<td>in.</td>
<td>34</td>
<td>57</td>
<td>49.5</td>
<td>36</td>
<td>48</td>
<td>59.5**</td>
<td>117.5**</td>
<td>14.5</td>
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<tr>
<td>cm.</td>
<td>86</td>
<td>145</td>
<td>120</td>
<td>91.5</td>
<td>122</td>
<td>151*</td>
<td>296.5**</td>
<td>37</td>
</tr>
</tbody>
</table>

*Measurement (F) is from firebox door to chimney inspection cover.
**Measurement (G) includes two 4 ft. chimney sections.
**DIMENSIONS AND MEASUREMENTS**

**E-CLASSIC®**

Furnace Base and Dimensions

---

**E-Classic 3250**

Base Dimensions (Foundation Optional)

Front

- 23" W
- 12" H
- 68" L
- 50" L

**E-Classic 1450**

Base Dimensions (Foundation Optional)

Front

- 12" H
- 4.5" H

---

**E-Classic Measurements**

<table>
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<tr>
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<th>B</th>
<th>C</th>
<th>D</th>
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<tr>
<td>E-Classic 1450</td>
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<td>73&quot;</td>
<td>57&quot;</td>
<td>47&quot;</td>
<td>59&quot;</td>
<td>71&quot;</td>
<td>150&quot;</td>
<td>5&quot;</td>
<td>34&quot;</td>
</tr>
<tr>
<td>E-Classic 3250</td>
<td>50&quot;</td>
<td>87&quot;</td>
<td>68&quot;</td>
<td>54&quot;</td>
<td>70&quot;</td>
<td>86&quot;</td>
<td>167&quot;</td>
<td>5&quot;</td>
<td>37&quot;</td>
</tr>
</tbody>
</table>

- Measurement (F) is from firebox door to chimney inspection cover.
- Measurement (G) includes two 4 ft. chimney sections.

Outdoor furnace must be installed on a noncombustible surface or foundation that incorporates an enclosure that will prevent supply and return lines from possible exposure to sunlight, fire, or physical damage that may be caused by an occurrence outside the outdoor furnace enclosure. Foundation may consist of concrete, crushed rock, or patio blocks.

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Classic Edge Furnace Base and Dimensions

**Classic Edge 350**
(Foundation Optional)

- Front: 40.5" (103 cm)
- Height: 50.75" (129 cm)
- Length: 23" (59 cm)
- Width: 7" (18 cm)
- Height (D): 9" (21 cm)

**Classic Edge 550**
(Foundation Optional)

- Front: 42.5" (108 cm)
- Height: 55.5" (141 cm)
- Length: 24" (61 cm)
- Width: 7" (18 cm)
- Height (D): 9" (21 cm)

**Classic Edge 750**
(Foundation Optional)

- Front: 51" (130 cm)
- Height: 59.75" (152 cm)
- Length: 51" (130 cm)
- Width: 28" (71 cm)
- Height (D): 11" (28 cm)

**Classic Edge Measurements**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
<tr>
<td>Classic Edge 350</td>
<td>40.5&quot;</td>
<td>72&quot;</td>
<td>50.75&quot;</td>
<td>43&quot;</td>
<td>51.5&quot;</td>
<td>69&quot;</td>
<td>150&quot;</td>
<td>5&quot;</td>
<td>38&quot;</td>
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<tr>
<td>Classic Edge 550</td>
<td>42.5&quot;</td>
<td>76&quot;</td>
<td>55.5&quot;</td>
<td>45&quot;</td>
<td>56&quot;</td>
<td>73.5&quot;</td>
<td>151&quot;</td>
<td>5&quot;</td>
<td>37.5&quot;</td>
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<tr>
<td>Classic Edge 750</td>
<td>51&quot;</td>
<td>84.75&quot;</td>
<td>59.75&quot;</td>
<td>53.5&quot;</td>
<td>60.5&quot;</td>
<td>79&quot;</td>
<td>164&quot;</td>
<td>5&quot;</td>
<td>39&quot;</td>
</tr>
</tbody>
</table>

- Measurement (F) is from firebox door to chimney inspection cover.
- Measurement (G) includes two 4 ft. chimney sections.

**CAUTION**
Do not use any combustible materials for the foundation.

Outdoor furnace must be installed on a noncombustible surface or foundation that incorporates an enclosure that will prevent supply and return lines from possible exposure to sunlight, fire, or physical damage that may be caused by an occurrence outside the outdoor furnace enclosure. Foundation may consist of concrete, crushed rock, or patio blocks.

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### Sample Parts List for Forced-Air Heating System

**NOTE:** These lists are intended to be examples only. Actual installations will vary. See your dealer if you have questions concerning your application.

<table>
<thead>
<tr>
<th>QTY.</th>
<th>P/N</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>107</td>
<td>Heat Exchanger Coil, 125k Btu</td>
</tr>
<tr>
<td>1</td>
<td>591</td>
<td>Side-Arm Heat Exchanger Kit</td>
</tr>
<tr>
<td>1</td>
<td>2053</td>
<td>Fittings Kit</td>
</tr>
<tr>
<td>1</td>
<td>5000392</td>
<td>Water Heater Mixing Valve, 3/4&quot;</td>
</tr>
<tr>
<td>1</td>
<td>5800004</td>
<td>Taco 007 Pump</td>
</tr>
<tr>
<td>1</td>
<td>224</td>
<td>Isolation Flange Kit, 3/4&quot;</td>
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<td>1</td>
<td>588</td>
<td>24-Volt Thermostat</td>
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<td>198</td>
<td>Ball Valve, 3/4&quot;</td>
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<td>Nipple, 3/4&quot; x close</td>
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<td>Brass Swing Check Valve, 3/4&quot;</td>
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<td>6</td>
<td>1330</td>
<td>PEX Adapter, 1&quot; PEX x 3/4&quot; MIP</td>
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<tr>
<td>6</td>
<td>1333</td>
<td>PEX Coupling, 1&quot;</td>
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<tr>
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<td>1334</td>
<td>PEX 90˚ Elbow, 1&quot;</td>
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<td>5978</td>
<td>Central Boiler Clamp, 1&quot;</td>
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<tr>
<td>1</td>
<td>1302</td>
<td>Central PEX 1&quot; Pipe, five 10' straight sections</td>
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<td>1</td>
<td>2443</td>
<td>ThermoPEX Cap, 1&quot;</td>
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<td>6593</td>
<td>Grounding Rod Kit (supplied standard with E-Classic and Maxim models)</td>
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<td>Power Supply Cord, 32&quot;</td>
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<td>1650</td>
<td>1650XL Inhibitor Plus (amount varies per model; see Owner's Manual)</td>
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<td>Ashtray, 6.25 lb</td>
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<td>Ash Shovel</td>
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<td>1</td>
<td>1548</td>
<td>Thermostatic Valve Fittings Kit, 3/4&quot;</td>
</tr>
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<td>2</td>
<td>6054</td>
<td>Temperature Gauge (optional)</td>
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<tr>
<td>2</td>
<td>3042</td>
<td>Brass Hex Bushing (optional)</td>
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### Sample Parts List for Additional Buildings

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<th>QTY.</th>
<th>P/N</th>
<th>DESCRIPTION</th>
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<td>1</td>
<td>323</td>
<td>Transition</td>
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<td>322</td>
<td>Fan</td>
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<td>106</td>
<td>Heat Exchanger Coil, 100k Btu</td>
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<td>5800004</td>
<td>Taco 007 Pump</td>
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<td>224</td>
<td>Isolation Flange Kit, 3/4&quot;</td>
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<td>Line Voltage Thermostat</td>
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<td>198</td>
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<td>PEX 90˚ Elbow, 1&quot;</td>
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<td>1330</td>
<td>PEX Adapter, 1&quot; PEX x 3/4&quot; MIP</td>
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<td>5978</td>
<td>Central Boiler Clamp, 1&quot;</td>
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<td>199</td>
<td>Brass Hose Bib, 3/4&quot; MPT</td>
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<td>Black Tee, 3/4&quot; NPT</td>
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