**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).
System Diagrams

Existing Boiler (Direct Plumbed)
Depressurized

Thermostatic Valve

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
1" Central PEX®

Hot Supply from Pump on Outdoor Furnace

Return to Outdoor Furnace

Existing Boiler - Pressurized
(with Wraparound Pump)

Thermostatic Mixing Valve

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

Return to Outdoor Furnace

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

NOTE
Installer must comply with all applicable codes and regulations.

Existing Boiler

Hot Supply

Return to Outdoor Furnace

NOTE
Hot Supply must enter top of existing boiler. Return to outdoor furnace must exit bottom of existing boiler.

For illustration purposes only, water heater styles may vary.

Water-to-Water Heat Exchanger

Thermostatic Mixing Valve

NOTE
Installer must comply with all applicable codes and regulations.

Existing Boiler - Pressurized
(with Wraparound Pump)

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

1" Central PEX®

Circulation Pump

Optional Valves

Y-Strainer

NOTE
Installer must comply with all applicable codes and regulations.

Existing Boiler

Hot Supply

Return

NOTE
Outdoor furnace water temperature setpoint should be set at 185˚F minimum.
Water-to-Air Heat Exchanger and Water Heater System

NOTE: A certified electrician must perform the electrical installation.

- Thermostatic Mixing Valve
- Heat Exchanger
- Hot Supply
- Existing Forced Air Furnace
- Optional Bypass Valve
- Bypass Line
- Existing Water Heater
- Central PEX®
- Water-to-Water Heat Exchanger
- Optional Thermostatic Valve
- Return to Outdoor Furnace

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 (85˚C) minimum.

NOTE
For illustration purposes only, water heater styles may vary.

NOTE
Installer must comply with all applicable codes and regulations.

NOTE
For illustration purposes only.

NOTE
This configuration allows use of a 24-volt thermostat on older forced-air units with no control board.

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System Diagrams

Kickspace Heater/Forced Air System
(with Water Heater and Down Draft Furnace)

- **Thermostatic Mixing Valve**
- **Water-to-Water Heat Exchanger**
- **Zoning Pump**
- **Multi-Heater Option**
- **Bleeder Screw**

**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**
For illustration purposes only, water heater styles may vary.

**NOTE**
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.

Water Heater

- **Hot Supply from Outdoor Furnace**
- **Return to Outdoor Furnace**
- **Kickspace Hydronic Heater** (Inline Setup)
- **Forced Air Furnace (down draft)**

Forced Air Furnace (down draft) heat exchanger with 90 degree fittings

Unit (A)

Main (C)

Bypass (B)

1" Central PEX®
Radiant Heat
Multi Zone In-Floor

Forced Air vs. Radiant In-Floor

Closed-cell Polystyrene Thermal Insulation

Greenhouse Heating Options

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
Installer must comply with all applicable codes and regulations.

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

NOTE
ON / OFF switch must be in the "ON" position for this install.

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
Supply
Return to Outdoor Furnace

1/2" Central PEX®

1" Central PEX®

NOTE
Installation uses approximately 10' of 1" copper. *

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

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<thead>
<tr>
<th>Qty</th>
<th>p/n</th>
<th>Description</th>
<th>Qty</th>
<th>p/n</th>
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<td>1&quot; x 1&quot;, Sweat to PEX Adapter</td>
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</table>

"Note: The fittings kit for installing p/n 591 is p/n 2053

*Note: The fittings kit for installing p/n 591 is p/n 2053

Supply Return to Outdoor Furnace

1/2" Central PEX®

1" Central PEX®

Installation uses approximately 10' of 1" copper. *

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

Multi Zone In-Floor

Hot Supply from Pump on Outdoor Furnace

Thermostatic Valve (Optional)

1" Copper Piping

Return to Outdoor Furnace

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

NOTE
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.

NOTE
ON / OFF switch must be in the "ON" position for this install.

24-Volt Thermostat

p/n 8200008

Zoning Pump

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

Sheet Rock

Minimal heat radiated downward

1/2" Central PEX Piping

Underlayment

Floor Joist

Floor Covering

Slab

PEX Hangers should be installed every 18".

It is recommended that you maintain a 2" cavity between piping and insulation for best performance.

Heating Upper Level

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.

NOTE
ON / OFF switch must be in the "ON" position for this install.
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).
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.

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.

System Diagrams

Dual System
(In Floor Radiant / Forced Air)

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).

Hot Supply from Pump on Outdoor Furnace

Return to Outdoor Furnace

Chimney Band Clamp (p/n 4518)

Chimney Base Bracket (p/n 4519)

Chimney Support Brace*

Chimney Attachment Ring (p/n 774)

Chimney Guy-Wire Band Kit (p/n 778)

Thermostatic Mixing Valve

Water-to-Water Heat Exchanger

Bypass Line

Central PEX® Hot Supply

Optional 3-Way Bypass Valve

Thermostatic Valve (optional)

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.

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.

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.

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

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).

NOTE
Water heater styles may vary.

NOTE
Size of incoming line may vary (depending on application).

NOTE
Location of thermostat may vary.
Chimney Reinforcement Recommendations
for E-Classic 1450 and E-Classic 3250

Three or Four Sections
When three or four sections of chimney are being used, a Chimney Base Bracket Kit (p/n 4519) is recommended.

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

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.

Chimney Reinforcement Recommendations
for Maxim M255

Three or Four Sections
When three or four sections of chimney are being used, a Chimney Band Clamp Kit (p/n 9535) for each joint is recommended.

Five or More Sections
When five or more sections of chimney are being used, a Chimney Band Clamp Kit for each joint is 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 & Measurements

Classic & Pallet Burner
Furnace Base and Dimensions

***Foundation optional on these models.

Furnace Base Dimensions
Shown without optional hopper.

Maxim M255
Furnace Base Dimensions

Optional 2,440 lb
Hopper with Furnace Base Dimensions

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 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. Foundation may consist of concrete, crushed rock, or patio blocks.

FURNACE MEASUREMENTS

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<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<td>78</td>
<td>89</td>
<td>104</td>
<td>260</td>
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</table>

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

Optional 48-Bushel Fuel Hopper
5.5 ft Transfer Auger
2 in. between furnace and hopper

Maxim M255 Measurements

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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*Measurement (F) is from firebox door to chimney inspection cover.
**Measurement (G) includes two 4 ft. chimney sections.
Dimensions & Measurements

Furnace Base and Dimensions

E-Classic 3250
Base Dimensions
(Foundation Optional)
Front

E-Classic 1450
Base Dimensions
(Foundation Optional)
Front

CAUTION
Do not use any combustible materials for the foundation.

E-Classic Measurements

<table>
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- 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.
Classic Edge Furnace Base and Dimensions

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

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<td>2053</td>
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<td>Water Heater Mixing Valve, 3/4&quot;</td>
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<td>198</td>
<td>Ball Valve, 3/4&quot;</td>
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<td>1</td>
<td>118</td>
<td>Nipple, 3/4&quot; x close</td>
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<tr>
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<td>296</td>
<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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<td>6</td>
<td>1334</td>
<td>PEX 90° Elbow, 1&quot;</td>
</tr>
<tr>
<td>20</td>
<td>5978</td>
<td>Central Boiler Clamp, 1&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30' ThermoPEX Pipe, 1&quot; (NOTE: distance between outdoor furnace and installation to be heated will determine quantities)</td>
</tr>
<tr>
<td>1</td>
<td>5700082</td>
<td>Central PEX 1&quot; Pipe, ten 8' straight sections</td>
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<td>2443</td>
<td>ThermoPEX Cap, 1&quot;</td>
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<td>556</td>
<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>1</td>
<td>297</td>
<td>Ashtrol, 6.25 lb</td>
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<td>2</td>
<td>6054</td>
<td>Temperature Gauge (optional)</td>
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<td>180</td>
<td>Hex Bushing (optional)</td>
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### Sample Parts List for Additional Buildings

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<th>DESCRIPTION</th>
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<tr>
<td>1</td>
<td>2900545</td>
<td>100k Btu Fan Coil Unit</td>
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<td>1</td>
<td>5800033</td>
<td>Taco 0015e3 Pump</td>
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<td>1267</td>
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<td>Ball Valve, 3/4&quot;</td>
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<td>4</td>
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<td>PEX 90° Elbow, 1&quot;</td>
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<td>8</td>
<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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<tr>
<td>1</td>
<td>199</td>
<td>Brass Hose Bib, 3/4&quot; MPT</td>
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<td>133</td>
<td>Black Tee, 3/4&quot; NPT</td>
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<tr>
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<td>Power Supply Cord, 32&quot;</td>
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<td>Brass Swing Check Valve, 3/4&quot;</td>
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<td>2</td>
<td>6764</td>
<td>Brass Offset Tee, 4&quot;</td>
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<td>180</td>
<td>Hex Bushing (optional)</td>
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## Parts List

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<th>DESCRIPTION</th>
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