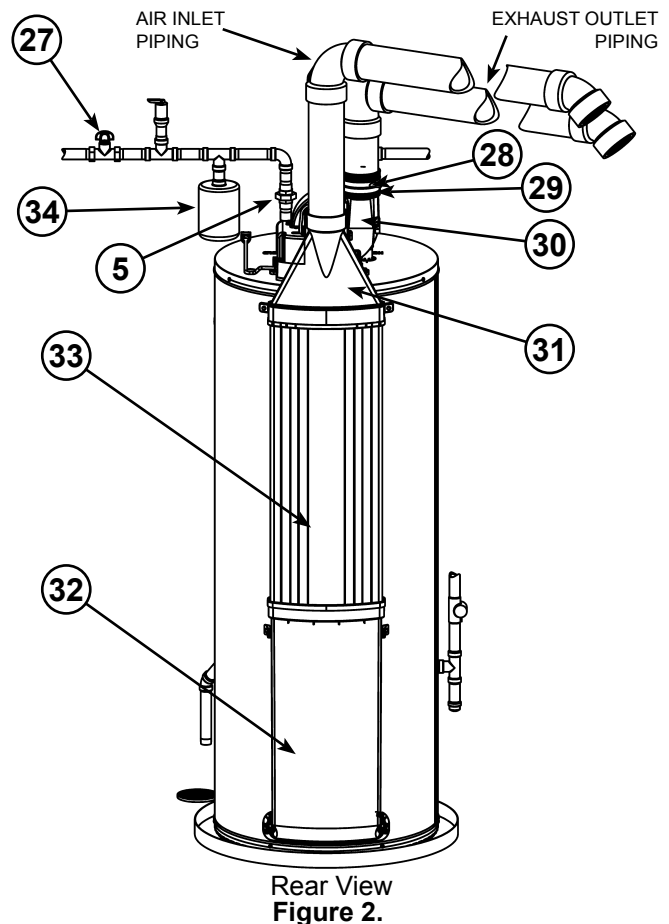
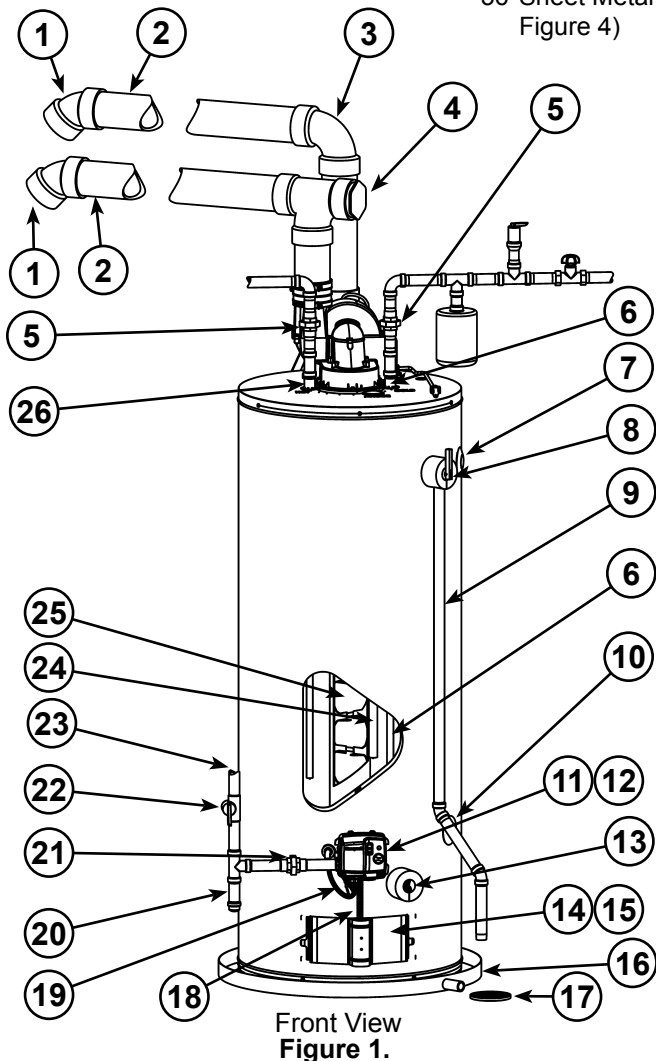


# TYPICAL INSTALLATION

## GET TO KNOW YOUR WATER HEATER - GAS MODELS (LIST REFERENCING FIGURES 1-5)

- |   |  |   |
|---|--|---|
| 1 Termination Elbow with Vent Screen                                    | 18 Flexible Manifold Tube (see Figure 3 & Figure 4)                                      | 37 Gas Orifice (see Figure 3 & Figure 4)                        |
| 2 *Vent Pipe  | 19 ***Control Harness  | 38 Gas Manifold (see Figure 3 & Figure 4)                       |
| 3 *Vent Pipe Elbow (long radius)  | 20 *Sediment Trap  | 39 Hot-Surface Igniter (see Figure 3 & Figure 4)                |
| 4 Sound Suppressor (Optional)   | 21 *Ground Joint Union (gas connection)  | 40 Manifold Door Gasket (see Figure 3 & Figure 4)               |
| 5 *Union (Di-electric water connection)                                 | 22 *Main Manual Gas Shut-off Valve   | 41 Manifold Door (see Figure 3 & Figure 4)                      |
| 6 Cold-Water Inlet Nipple/Diptube                                       | 23 *Gas Supply*  | 42 Two Piece Grommet With Clip (see Figure 3 & Figure 4)        |
| 7 **Combo Heating System Supply Outlet (Optional)                       | 24 Anode (under cap)   | 43 Viewport (see Figure 3 & Figure 4)                           |
| 8 T&P Valve   | 25 Baffle Assembly   | 44 Air Tubing (Intake) (see Figure 5)                           |
| 9 * Discharge Pipe  | 26 Hot-Water Outlet Nipple/Anode   | 45 Blower High Limit Switch (see Figure 5)                      |
| 10 **Combo Heating System Return Inlet (Optional)                       | 27 *Inlet Water Shut-off Valve   | 46 Intake Air Pressure Switch (NC) (inside box) (see Figure 5)  |
| 11 Gas Control Valve/Thermostat (Honeywell)                             | 28 ****Rubber Coupling (see Figure 5)  | 47 Capacitor (see Figure 5)                                     |
| 12 Gas Valve Electronic Control Module And Cover (Honeywell)            | 29 Gear Clamp (see Figure 5)   | 48 Air Tubing (Exhaust) (see Figure 5)                          |
| 13 Drain Valve  | 30 ***Blower with Power Cord (see Figure 5)  | 49 Exhaust Air Pressure Switch (NO) (inside box) (see Figure 5) |
| 14 Outer Gas Door   | 31 Air Duct Adapter  |   |
| 15 Manifold Door Assembly (behind outer door) (see Figure 3 & Figure 4) | 32 Air Inlet Snorkel   |   |
| 16 *Metal Drain Pan   | 33 Air Duct  |   |
| 17 *Floor Drain   | 34 *Thermal Expansion Tank (see "Closed Water Systems" and "Thermal Expansion" sections) |   |
|   | 35 Flame Sensor Rod (see Figure 3 & Figure 4)  |   |
|   | 36 Sheet Metal Burner (see Figure 3 & Figure 4)  |   |

\*, \*\*, \*\*\*, \*\*\*\* see notes on following page



Natural gas and Propane main burner with igniter assembly for 40k and 45k Btu/hr models (item 15 in Figure 1) †.

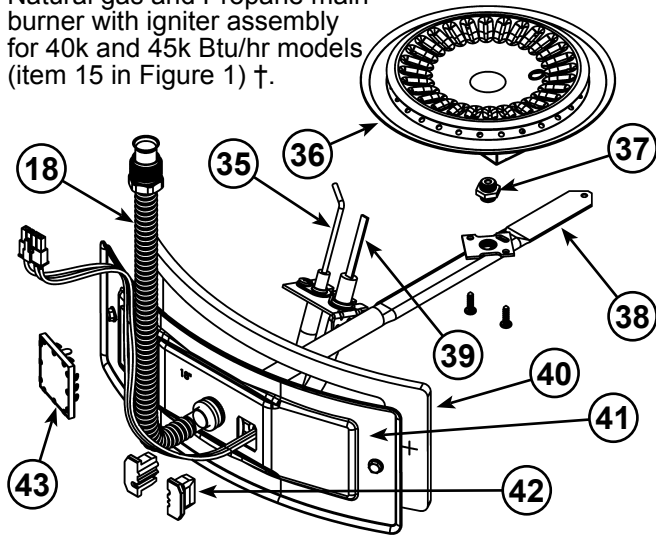


Figure 3.

Natural gas and Propane (LP) main burner with igniter assembly for 58k, 62k, 72k and 76k Btu/hr models (item 15 in Figure 1) †.

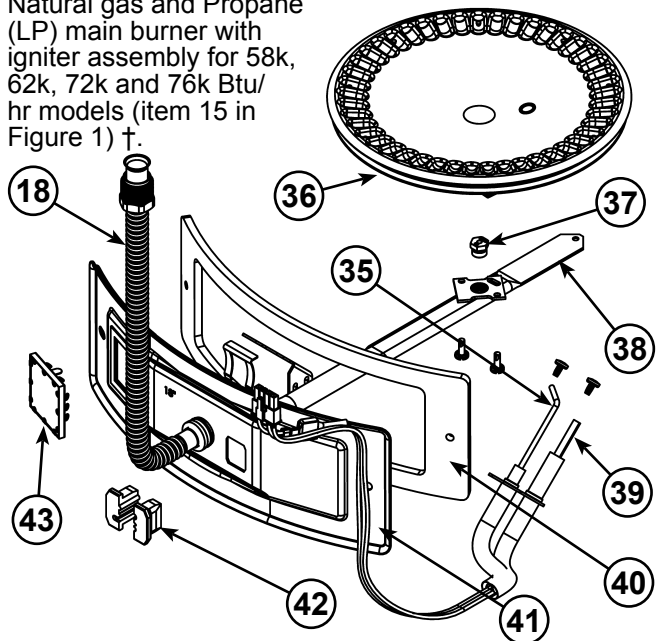


Figure 4.

Shown with Junction Box Cover removed for clarity.

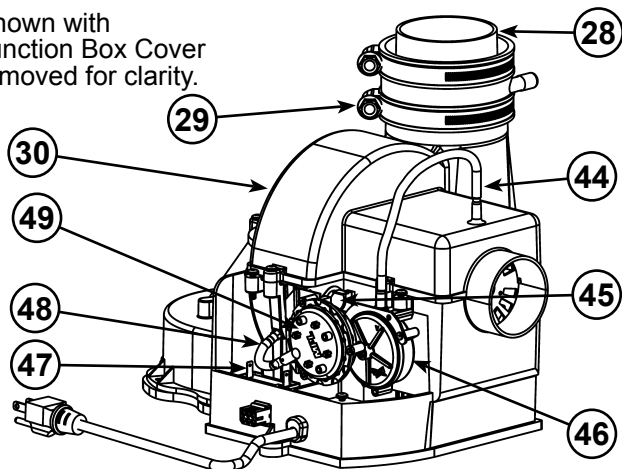


Figure 5.

Vacuum relief valve install per local codes (not supplied with heater).

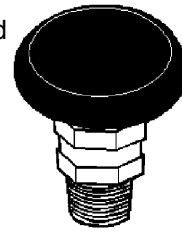


Figure 6.

**Notes:**

- \* Items not supplied with the water heater.
- \*\* The side recirculation loop connections may not be used as the primary water inlet and outlet connections. See "Combo Heating Inlet And Outlet Side Taps" below.
- \*\*\* Caution harness has 120 VAC In operation.
- \*\*\*\* See "Vent Pipe Installation" for more information.

† Propane (LP) models have Left-hand threads.

**REPLACEMENT PARTS AND DELIMING PRODUCTS**

Replacement parts and recommended delimer may be ordered through authorized servicers or distributors. When ordering parts, provide complete model and serial numbers (see rating plate), quantity and name of part desired. Standard hardware items may be purchased locally.

**COMBO HEATING INLET AND OUTLET SIDE TAPS**

Models equipped with Combo Heating capabilities have the two side plumbing taps plugged (item 7 and item 10 in Figure 1 and see also Figure 7 & Figure 8). If the heater is to be installed in a Combo Heating application, these plugs must be removed.

# WATER PIPING - MIXING VALVE USAGE

## Mixing Valves

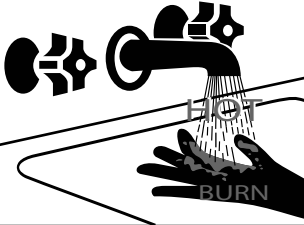
**⚠ DANGER**

Water temperature over 125°F can cause severe burns instantly resulting in severe injury or death.

Children, the elderly and the disabled and are at highest risk of scald injury.

Feel water before bathing or showering.

Temperature limiting devices such as mixing must be installed when required by codes and to ensure safe temperatures at fixtures.



Water heated to a temperature which satisfies space heating, clothes washing, dish washing, and other sanitizing needs can scald and cause permanent injury upon contact. Short repeated heating cycles caused by small hot-water uses can cause a temperature increase of the hot water by 20F° higher than the heater's temperature settings.

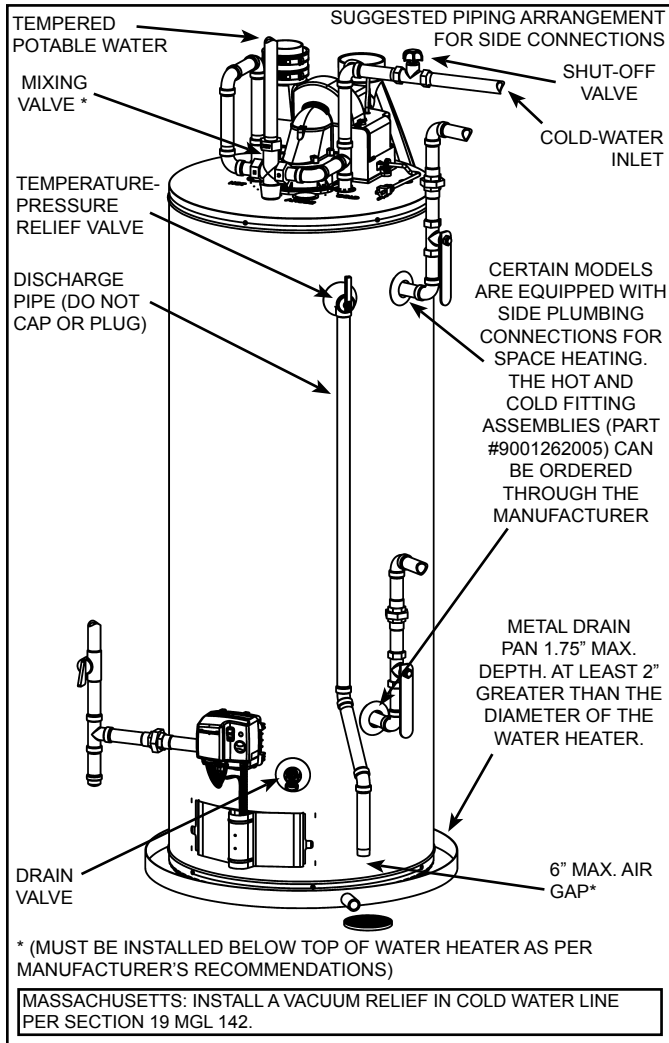


Figure 7.

This appliance has been design certified as complying with ANSI/CSA Standard for water heaters and are considered suitable for combination Water (Potable) Heating and Space Heating but not space heating only applications. The water supply pressure should not exceed 80 psi. If this occurs, a pressure reducing valve with a bypass should be installed in the cold water inlet line. This should be placed on the supply to the entire house in order to maintain equal hot and cold water pressures.

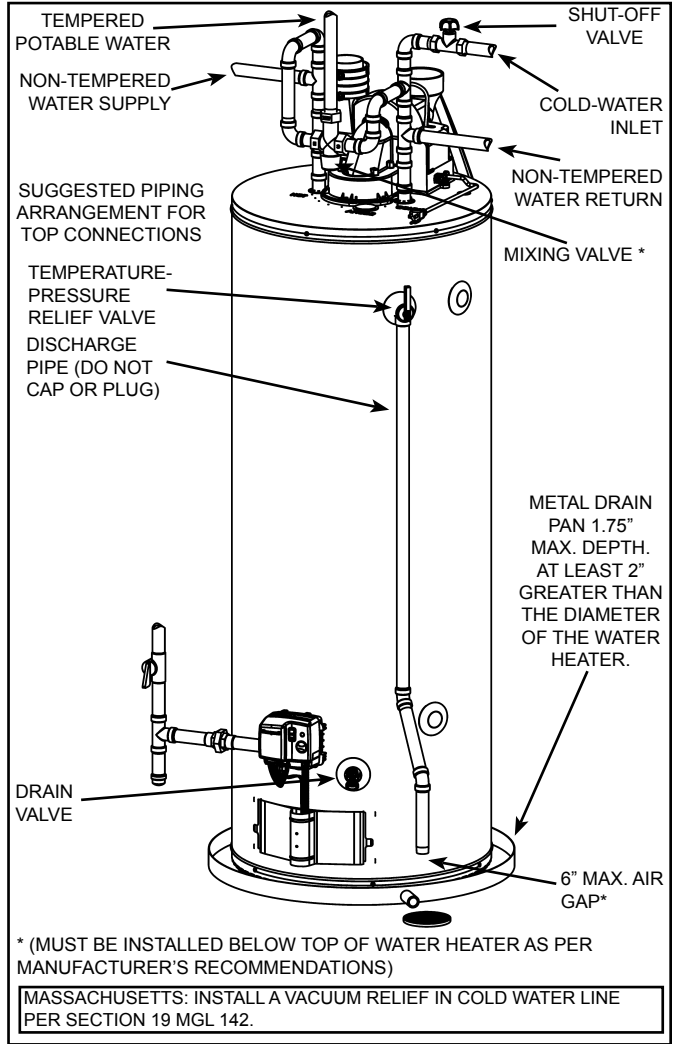


Figure 8.

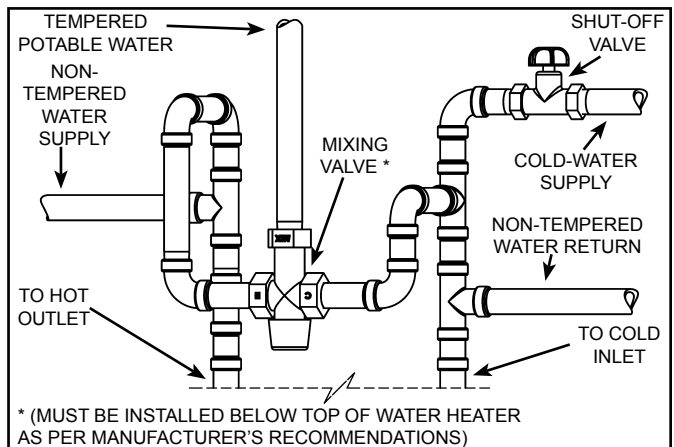


Figure 9.