

## CONDENSATE TRAP REPLACEMENT KIT

### INSTALLATION INSTRUCTIONS FOR CONDENSATE TRAP REPLACEMENT KIT (77W30) USED ON 90% EFFICIENCY GAS FURNACES

#### Shipping & Packing List

##### Package 1 of 1 contains the following:

- 1 - Condensate trap
- 1 - Clean out cap
- 1 - Clamp

#### Application

Condensate trap replacement kit (77W30) is used on 90% efficiency gas furnaces.

### ⚠ WARNING

Condensate trap must be installed to ensure safe operation of this furnace.

#### Installation

### ⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional installer (or equivalent), service agency or the gas supplier.

### ⚠ CAUTION

As with any mechanical equipment, personal injury can result from contact with sharp sheet metal edges. Be careful when you handle this equipment.

- 1 - Turn off electrical and gas supplies to the furnace.
- 2 - Remove the furnace access panel.
- 3 - Use the provided clamp and install the provided clean out cap to the replacement trap. See figure 1.
- 4 - Cut the 1/2" PVC used with the existing trap. Discard the pipe and trap. See figures 2 and 3. If necessary cut and discard the field provided 1/2 NPT male fitting from the cold end header box.
- 5 - Install drain trap using appropriate PVC fittings, glue all joints. Glue the provided drain trap as shown in figure 6. Route the condensate line to an open drain. Replace the field 1/2 NPT male fitting if removed.

**NOTE** - If necessary the condensate trap may be installed up to 5 feet away from the furnace. Piping from furnace must slope down a minimum of 1/4" per ft. toward trap.

Under no circumstance should the trap be connected to the evaporator coil drain. Condensate trap and evaporator coil must drain separate from each other. See figures 4 and 5.

### ⚠ CAUTION

A separate drain line must be run to the drain from the condensate trap to ensure proper drainage and pressure switch operation. **DO NOT** connect the condensate trap drain into the drain line from the evaporator coil.

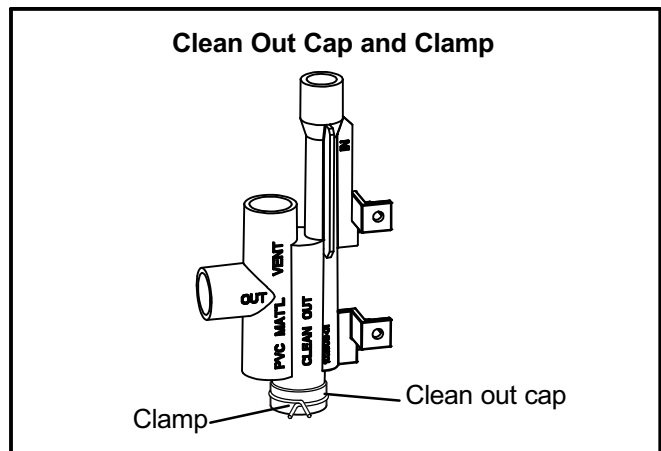


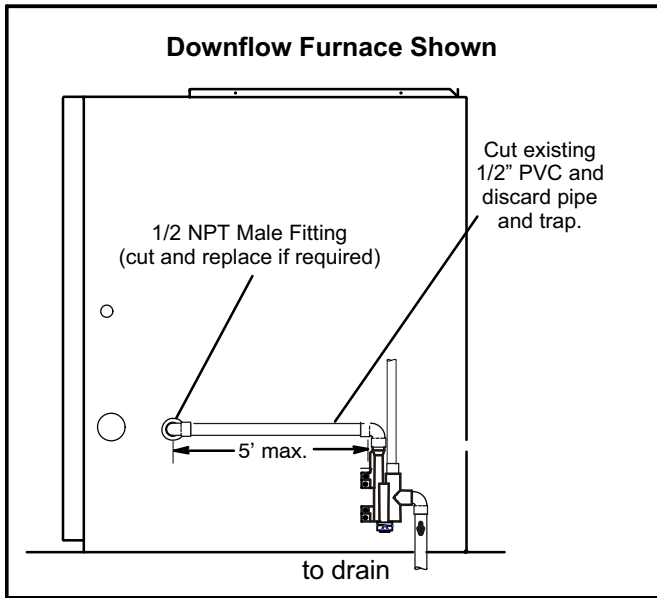
FIGURE 1

Condensate line must be sloped downward away from condensate trap to drain. If drain level is above condensate trap, condensate pump must be used. Condensate drain line should be routed within the conditioned space to avoid freezing of condensate and blockage of drain line. If this is not possible, a heat cable kit may be used on the condensate trap and line. Heating cable kit is available from Lennox in various lengths; 6 ft. (1.8m) - kit no. 26K68; 24 ft. (7.3m) - kit no. 26K69; and 50 ft. (15.2m) - kit no. 26K70.

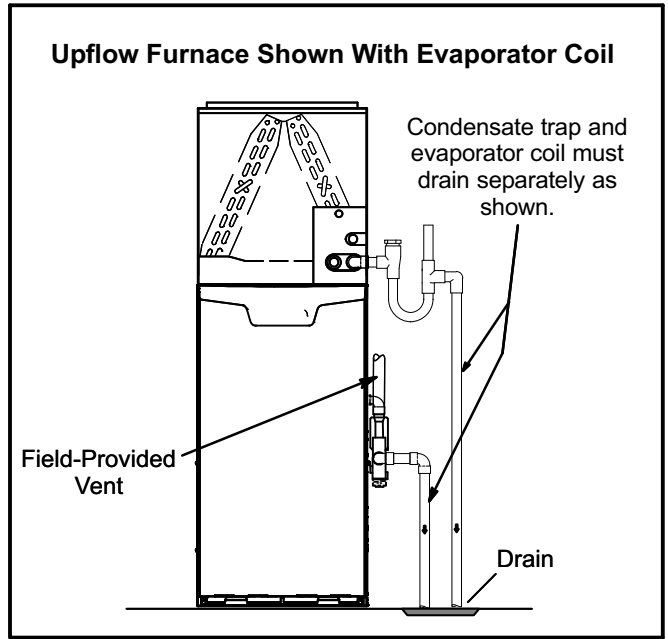
### ⚠ CAUTION

**Do not use copper tubing or existing copper condensate lines for drain line.**

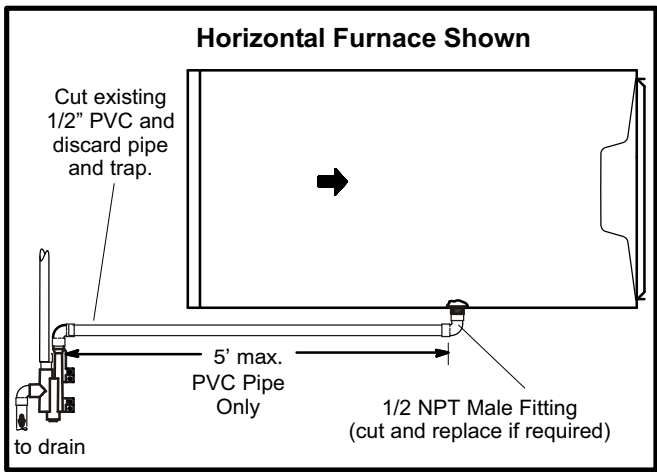




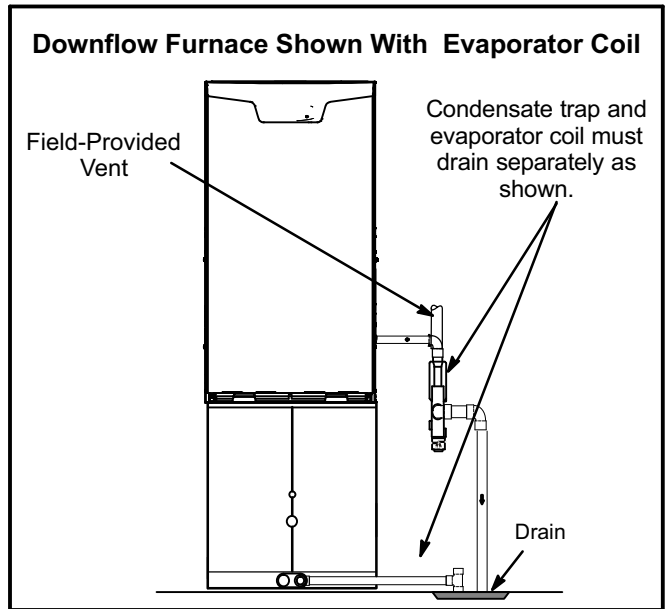
**FIGURE 2**



**FIGURE 4**



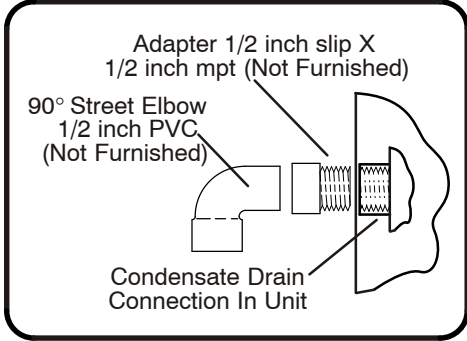
**FIGURE 3**



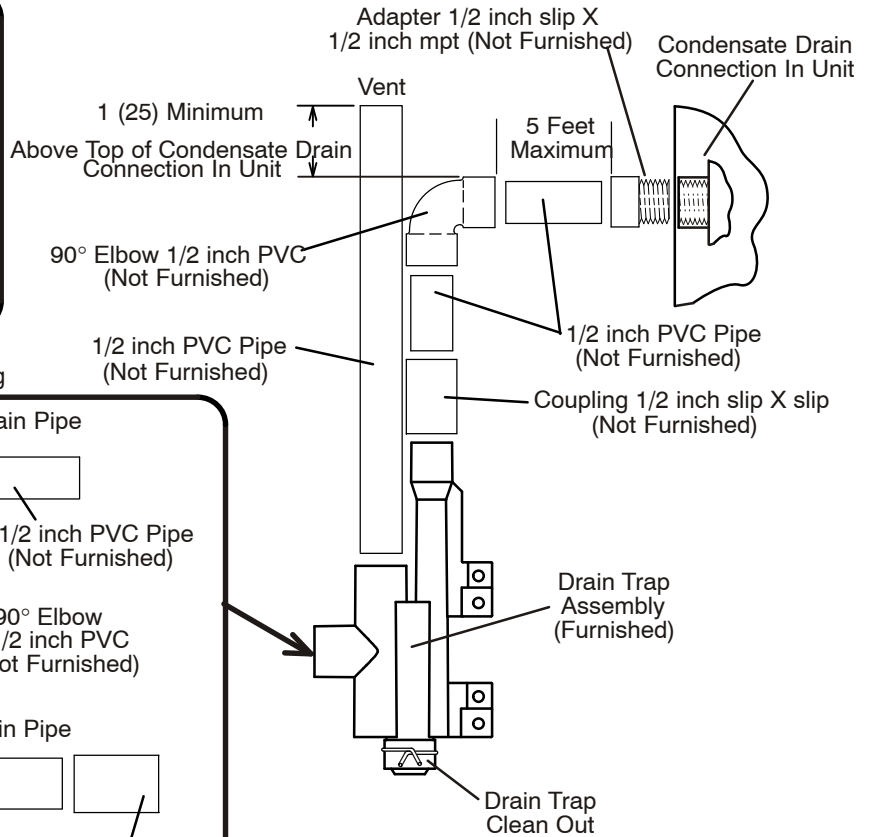
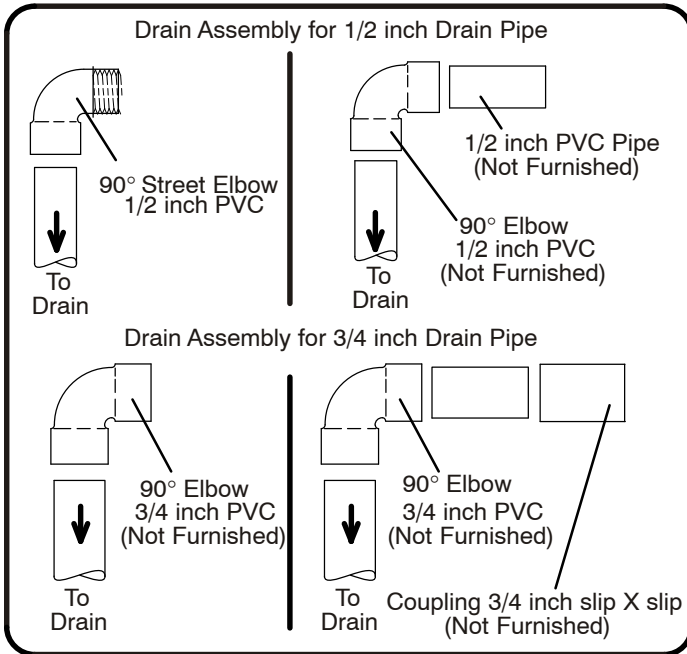
**FIGURE 5**

## TRAP / DRAIN ASSEMBLY USING 1/2" PVC OR 3/4" PVC

### OPTIONAL Condensate Drain Connection

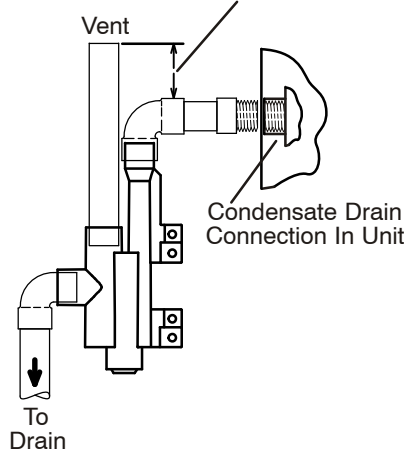


### OPTIONAL Drain Piping



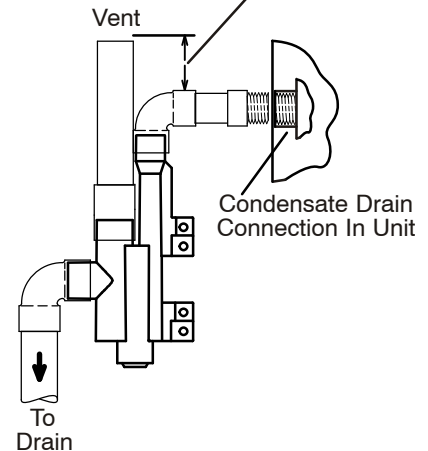
### Drain Trap Assembly with 1/2 inch Piping

1 inch (25mm) Minimum Above Top of Condensate Drain Connection In Unit



### Drain Trap Assembly with 3/4 inch Piping

1 inch (25mm) Minimum Above Top of Condensate Drain Connection In Unit



**FIGURE 6**