



# Toester Undercounter Fan Coil Installation and Operation Manual HA Models T45 / T68 / T12 / T13 / T16



## Installation:

- Toester fan coil space heaters are suitable for connection to hot water supply at any pressure up to 300 P.S.I. with a maximum water temperature not exceeding 200°F.
- Building codes and plumbing regulations may vary. Check local codes and regulations before determining proper application and installation.
- Examine the unit for shipment damage.
- Cut an access panel in the bottom shelf of the cabinet where the unit will be located. Starting at the right edge of

the selected location, cut an opening in the bottom of the cabinet as instructed below:

Model T45/T68 at least 17" x 17-1/2" (see Figure 1)

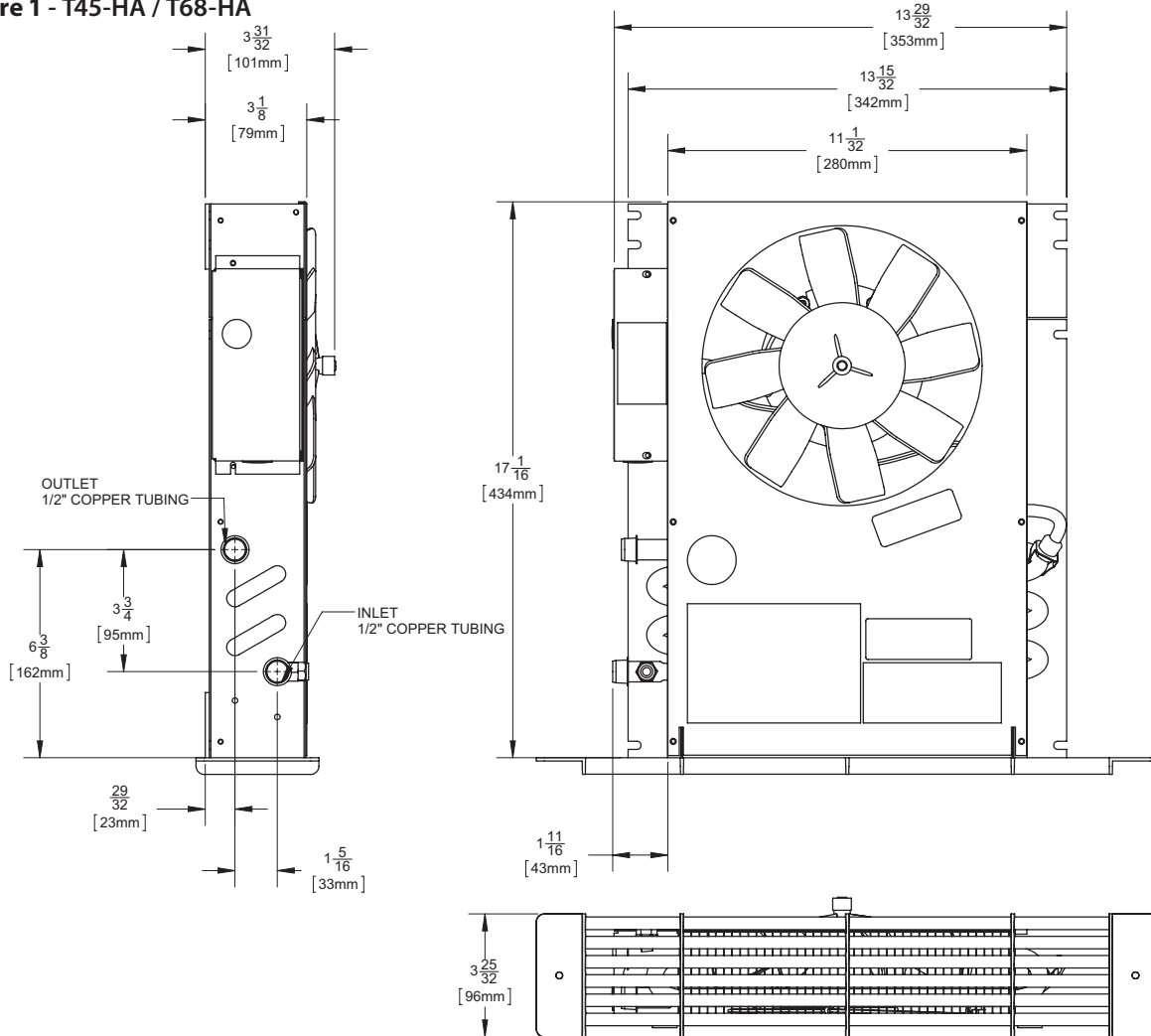
Model T12 at least 23" x 17-1/2" (see Figure 2)

Model T13/T16 at least 29" x 17-1/2" (see Figure 3)

Refer to Figures 1, 2 & 3 for pipe location and all unit dimensions. Cabinet details may vary for each installation.

- Lift the Toester out through the access door and sweat on fittings.

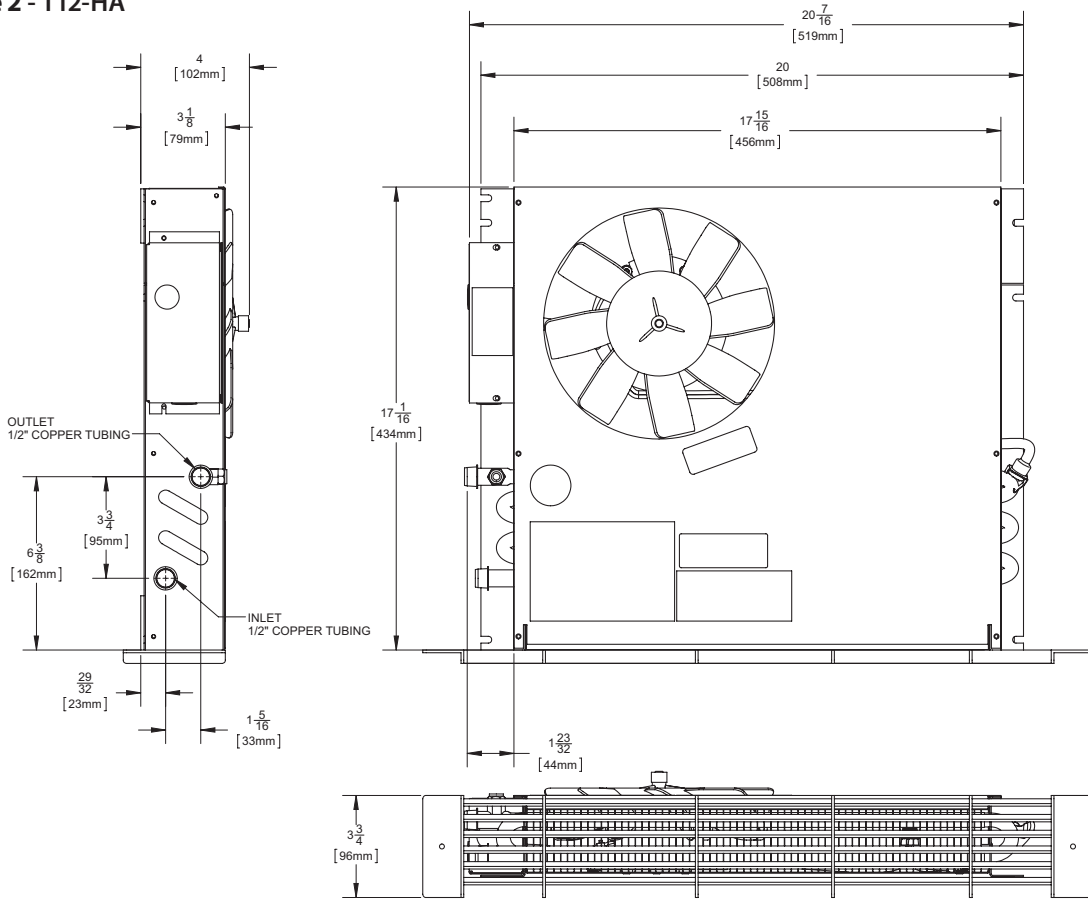
**Figure 1 - T45-HA / T68-HA**



CAT-09850-TUR-001

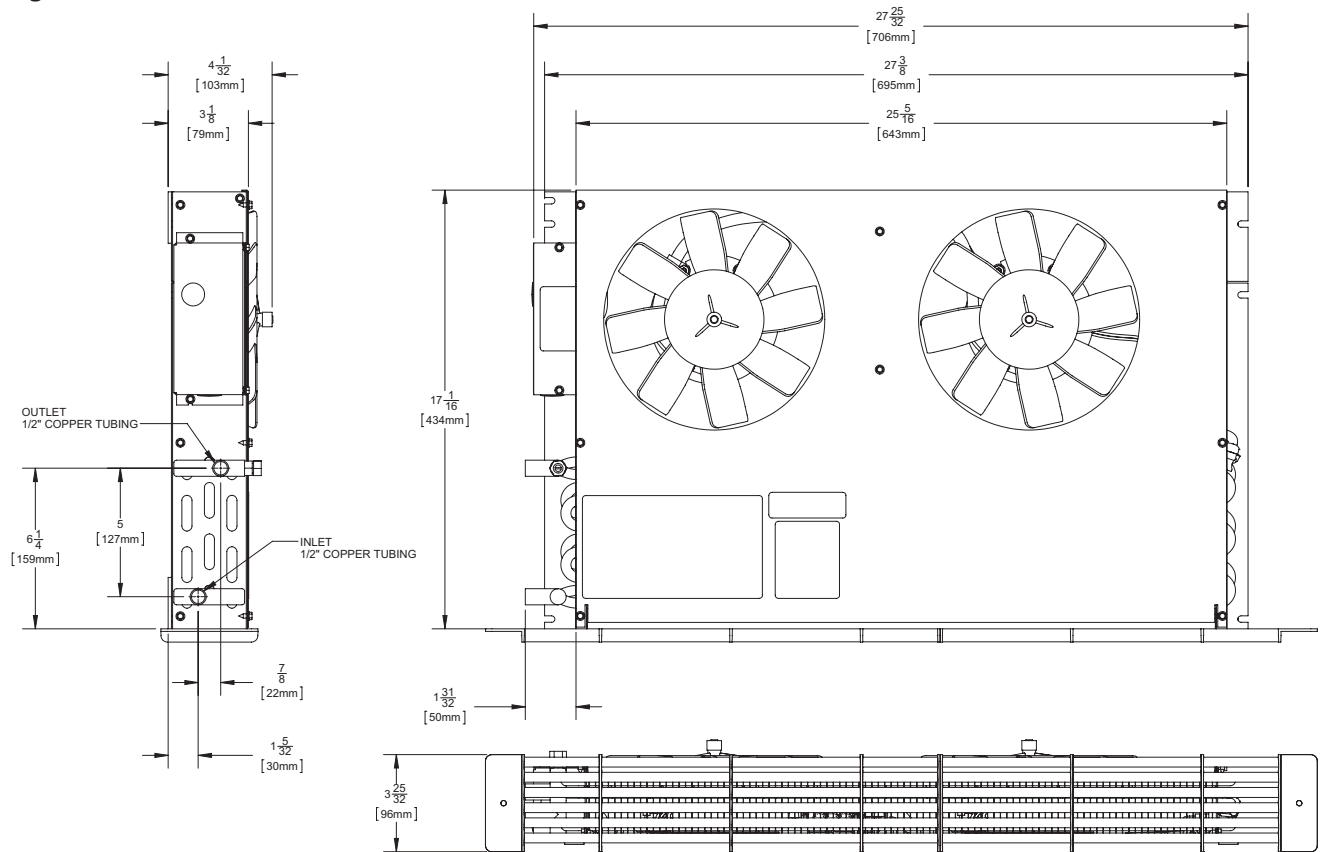


**Figure 2 - T12-HA**



CAT-09850-TUR-002

**Figure 3 - T13-HA / T16-HA**



CAT-09850-TUR-003

**Piping:**

- The piping to the unit will usually be copper or any other locally approved piping. Accessible 1/2" sweat fittings are provided on the unit itself. An optional flexible stainless steel connector kit with shut-off valves is available for connecting the unit to any type of piping system.
- All piping systems should be designed by a technician with experience in the various piping arrangements that work with this type of unit.
- As with any system employing circulated water, the pipes passing through unheated spaces should be insulated.
- When using mono-flo or venturi fittings, we suggest placements of a ball valve just after the supply take-off and before the return is connected.

**Piping: Hot Water Boiler**

- The unit supply line should be taken from the boiler side beyond any flo-control valve. If the system being used is a gravity-flow or cast-iron hot water system, a separate circuit must be installed.

**Piping: Water Heater**

- To install correctly, a technician with knowledge of piping arrangements and back-flo valves must design the piping system.

**Wiring the Unit**

- A field wiring connection is provided on the unit. Connect wires at this point only. See wiring diagrams on the following page. Figure 4 for T45/T68/T12 and Figure 5 for T13/T16.
- The unit is manufactured with a built-in factory wired aquastat with a set point of 140°F on and 110°F off. The aquastat may be disabled in the field if not required.
- Unit is pre-wired from the factory on Lo speed. Unit may be optionally installed with a remote mounted line voltage thermostat.
- Speed switch (included) and/or a line voltage thermostat.
- All wiring should be done to all local and national codes.

**Completion**

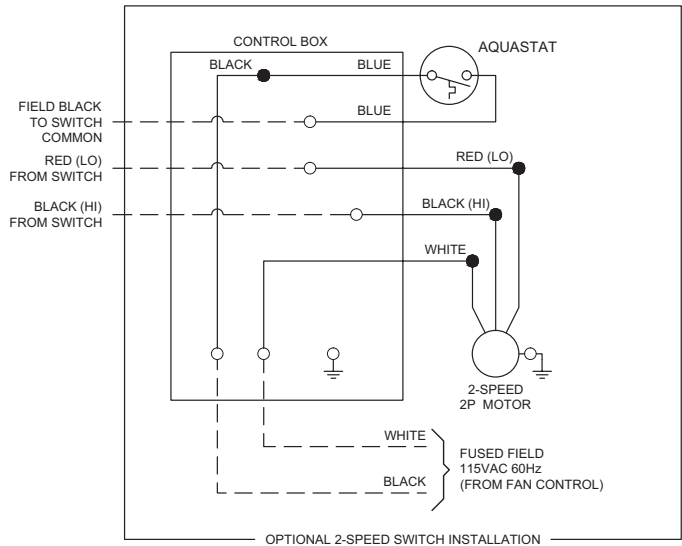
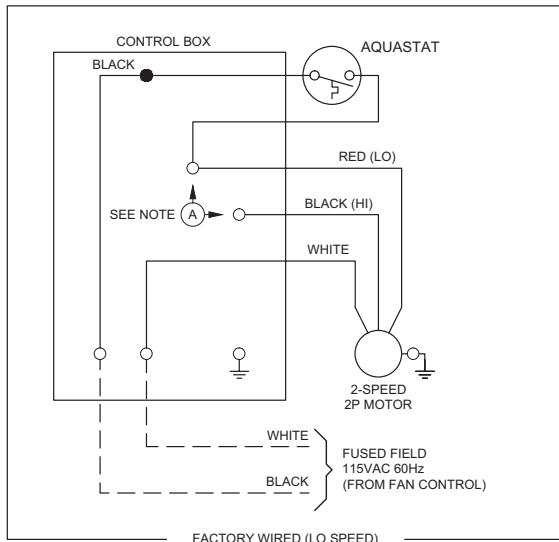
- Secure unit to floor through holes on perimeter of the bottom plate (screws provided).
- Bleed the unit, secure the access panel; and install front grille cover.



**▲ WARNING**

**HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. Failure to disconnect power before servicing can cause severe personal injury or death.**

**Figure 4 - Wiring Diagram T45-HA / T68-HA / T12-HA**



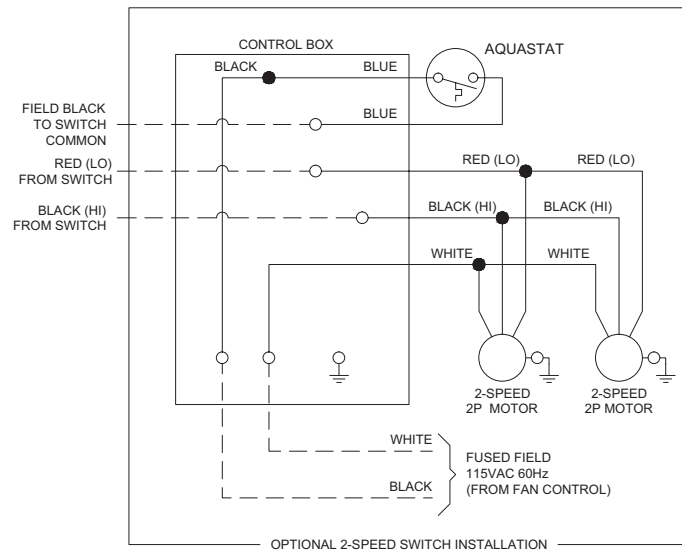
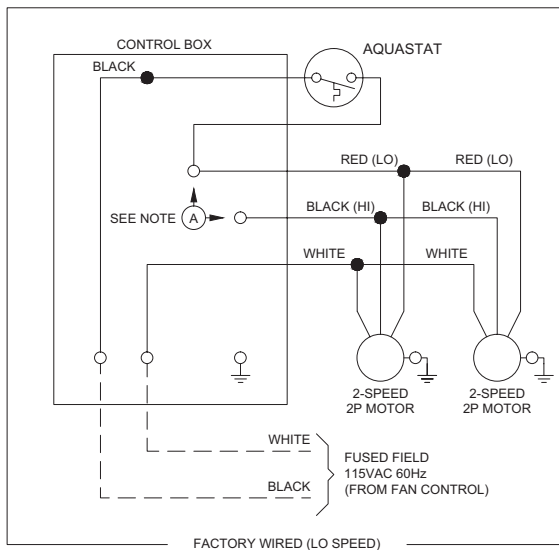
NOTE:  
 "A" TO DIRECT WIRE ON HIGH SPEED REPLACE RED (LO) WIRE CONNECTION TO BLUE AQUASTAT WIRE WITH BLACK (HI) WIRE. CAP THE DISCONNECTED RED (LO) WIRE BEFORE POWERING THE UNIT.

FACTORY WIRING —————  
 FIELD WIRING - - - - -

NOTE:  
 ALL WIRING SHALL MEET ALL LOCAL AND NATIONAL CODE.

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**Figure 5 - Wiring Diagram T13-HA / T16-HA**



NOTE:  
 "A" TO DIRECT WIRE ON HIGH SPEED REPLACE RED (LO) WIRE CONNECTION TO BLUE AQUASTAT WIRE WITH BLACK (HI) WIRE. CAP THE DISCONNECTED RED (LO) WIRE BEFORE POWERING THE UNIT.

FACTORY WIRING —————  
 FIELD WIRING - - - - -

NOTE:  
 ALL WIRING SHALL MEET ALL LOCAL AND NATIONAL CODE.

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