

# TAQ FAN COIL UNIT

## INSTALLATION INSTRUCTIONS

### **\*\*WARNING TO INSTALLER, SERVICE PERSONNEL AND OWNER\*\***

Altering the product or replacing parts with non authorized factory parts voids all warranty or implied warranty and may result in adverse operational performance and/or a possible hazardous safety condition to service personnel and occupants. Company employees and/or contractors are not authorized to waive this warning. Current **Maintenance Program** is available at [www.firstco.com](http://www.firstco.com) under "Product Information".

### GENERAL

The manufacturer assumes no responsibility for equipment installed in violation of any code requirement.

These instructions give information relative to the installation of these fan coil units only. For other related equipment refer to the proper instructions.

Material in this shipment has been inspected at the factory and released to the transportation agency in good condition. When received, a visual inspection of all cartons should be made immediately. Any evidence of rough handling or apparent damage should be noted on the delivery receipt and the material inspected in the presence of the carrier's representative. If damage is found, a claim should be filed against the carrier immediately.

**Note: State of MA.-248 CMR code of the state of MA. requires a pump timer (60 seconds on every 6 hours). See diagram.**

**\*\*\*\*\* WARNING \*\*\*\*\***  
*When connecting piping to fan coil units, do not bend or reposition the coil header tubing for alignment purposes. This could cause a tubing fracture resulting in a water leak when water pressure is applied to the system.*

### FAN COIL UNIT

The installer must adhere to all local and national code requirements pertaining to the installation of this equipment. The unit is designed to be installed in a vertical position either hung on the wall or set on a platform within an equipment closet. The fan coil unit is suitable for installation with zero inches clearance to combustible materials. Sufficient clearance must be provided at the front of the unit to allow access to electrical controls and removal of the motor / blower assembly for servicing. This clearance must be approximately the same as the depth dimension of the fan coil unit.

### AIR DISTRIBUTION DUCTS

All duct work must adhere strictly to local and national code requirements. Provision for connecting the return air duct is located on either side of the unit. The installer must cut out the center section and bend the 3/4 inch flanges to the out side. It will also be necessary to cut out the cabinet insulation to provide free flow of air to the fan coil unit blower. The return air duct is attached by screws to the 3/4 inch flanges and routed to a filter grille. If there is no ducted return then applicable installation codes may limit the unit to installation only in a single story residence.

### ELECTRICAL

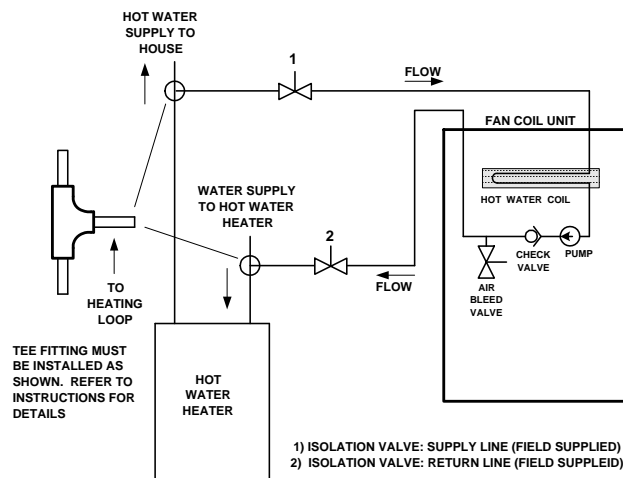
All wiring must comply with local and national code requirements. Units are provided with wiring diagrams and nameplate data to convey information required for necessary field wiring. Knockouts are provided on the cabinet for connection of the power supply.

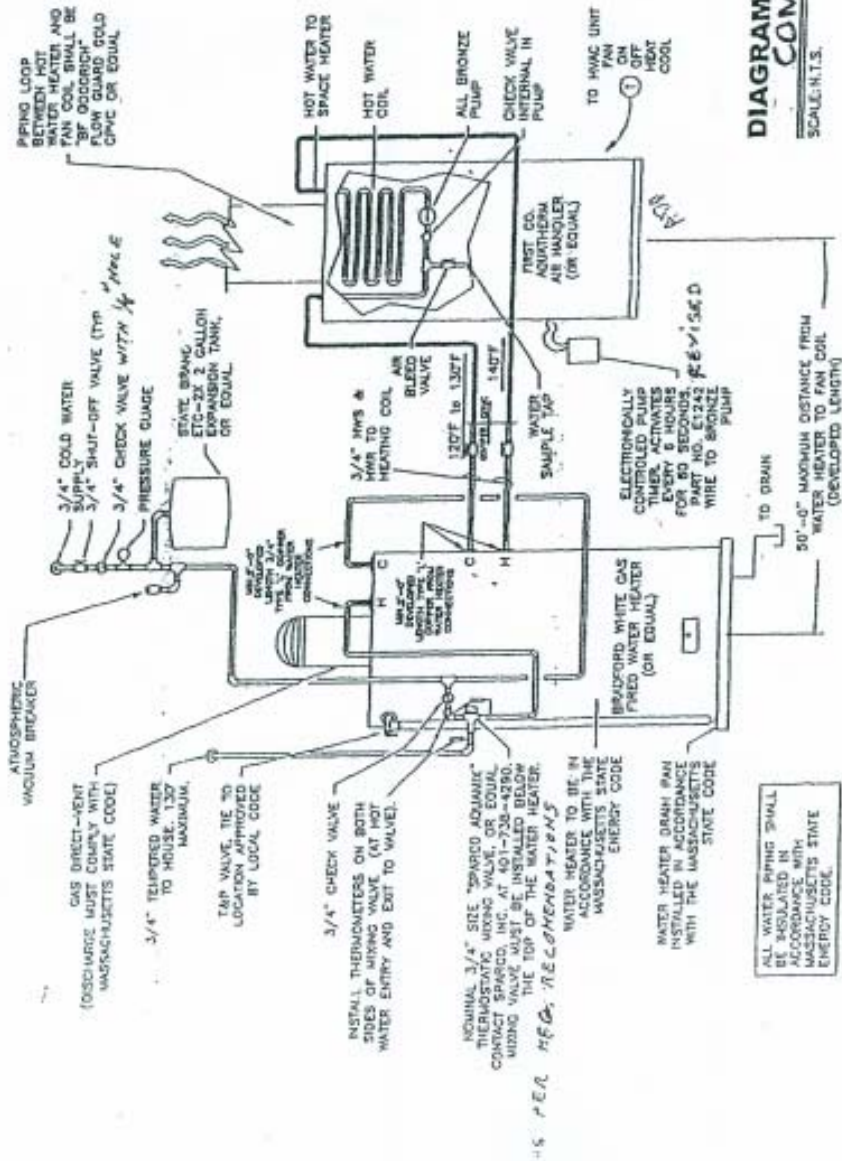
These fan coil units have a Class 2 transformer for 24 volt control circuits. Should any add-on equipment also have a Class 2 transformer furnished then care must be taken to prevent interconnecting outputs of the two transformers by using a thermostat with isolating contacts.

**\*\*\*\*\* WARNING \*\*\*\*\***  
*Any devices such as fan switches or thermostats that have been furnished by the factory for field installation must be wired in strict accordance with the wiring diagram that is supplied with the unit. Failure to do so could result in damage to components and will void all warranties.*

### HOT WATER COIL PIPING

See diagram next page for typical piping schematic. The hot water connections at the fan coil are 3/4 inch female NPT. The hot water supply to the fan coil is the connection on the left as you face the front of unit. All piping between the fan coil unit and the hot water heater must be in accordance with the local plumbing codes as they apply to domestic hot water piping. It is recommended that 3/4 inch nominal pipe be used and the total piping length should not exceed 200 feet.





APPROVED FOR  
SUBJECT TO RULES  
AND REGULATIONS  
CHECKED BY *[Signature]*  
DATE 4/2/02  
FOR THE BOARD  
PLAN EXAMINER  
STATE OF MASSACHUSETTS  
PLUMBING AND GAS FITTERS



**DIAGRAMATIC LAYOUT  
COMBO SYSTEM**  
SCALE: N.T.S.

NOTE: STATE OF MA. 248 CMR CODE OF THE STATE OF MA.  
REQUIRES A PUMP TIMER. (60 SECONDS EVERY 6 HOURS)

**STATE OF MASSACHUSETTS PIPING DIAGRAM  
UNITS WITH HOT WATER HEATING**