

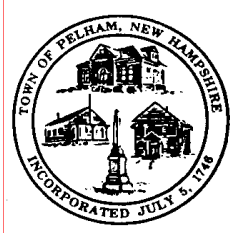


*Daniel Newman*  
*Fire Chief*

## **PELHAM FIRE DEPARTMENT**

**36 Village Green  
Pelham, NH 03076**

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### **PELHAM FIRE DEPARTMENT OIL BURNER INSTALLATION CHECKLIST**

#### **1.0 INSTALLATION**

- 1.1 Installed in accordance with manufacturer's instructions and specifications
- 1.2 Provide reasonable accessibility for cleaning and servicing.
- 1.3 Not installed in areas where combustible dusts or flammable vapors are present, unless approved for that area.
- 1.4 Proper ventilation for combustion intake air and excessive heat removal.
- 1.5 The area above burner must have 5/8-inch fire rated sheetrock. Sheetrock must cover all exposed areas 4 feet from center of heating unit on all sides. Sheetrock must be taped and compounded and free of any unprotected penetrations. Residential sprinklers permitted only by special waiver of the Fire Department.

#### **2.0 CHIMNEY AND CHIMNEY CONNECTIONS**

- 2.1 Chimney must be masonry with flue liner.
- 2.2 Metal chimney must be listed by a recognized listing agency and installed in accordance with manufacturer's instructions.
- 2.3 Connector pipe should be as short as possible. For natural draft, not to exceed ten (10) feet unless draft booster is installed.
- 2.4 No chimney connector shall pass through a floor or ceiling.
- 2.5 No connector of medium or high heat appliance shall pass through any combustible wall or partition.
- 2.6 Connector from other appliances must be protected as follows when passing through combustible walls or partitions
  - 2.6.1 Listed ventilated thimble not less than twelve (12) inches larger than the diameter of the connector.**
  - 2.6.2 Cut away for eighteen (18) inches.
  - 2.6.3 Appliances listed to be used with listed connectors are acceptable if connectors are installed according to their listing (known as "L Vent").
- 2.7 Pipe must pitch upward 1/4 inch per foot.
- 2.8 Pipe connector must be mortared tightly to chimney.
- 2.9 All connecting sections must be secured by not less than two (2) screws.
- 2.10 No manual dampers are permitted.

#### **3.0 TANK INSTALLATION**

- 3.1 Not larger than six hundred and sixty (660) gallon capacity.
- 3.2 Not more than six hundred and sixty (660) total gallons per burner.
- 3.3 Total gallons allowed in basement or lowest story; six hundred and sixty (660) gallons.
- 3.4 Over six hundred and sixty (660) gallons, each six hundred and sixty (660) gallons must be separated by unpierced masonry fire wall.
- 3.5 Not less than five (5) feet from fire or flame in, or external to, appliance.
- 3.6 Tank must not block quick or safe access to utility services.
- 3.7 Must be securely supported by rigid, non-combustible supports.

- 3.8 Supply outlet must be equipped with fire-o-matic type automatic shut-off and a manual type shut-off. See attached drawing for positioning. Must be secured to floor by cement or other fastening method.
- 3.9 Two (2) supply tanks may be cross connected. (Must not exceed six hundred and sixty (660) total gallons.)
- 3.10 If the tank is underground, the Fire Department must inspect it before backfilling begins.

#### **4.0 PIPING**

##### **4.1 Piping shall be substantially supported and protected against physical damage. Piping shall not be run along the ceiling.**

- 4.2 Double swing joints shall be provided on fill and vent.
- 4.3 Fill pipe located outside with tightly fitting metal cover.
- 4.4 Vent pipes from tanks may be connected to one outlet pipe, not lower than the fill pipe.
- 4.5 Vent pipe shall be a minimum of 1 ¼" inches in diameter.
- 4.6 Vents shall terminate outside, not less than two (2) feet from any opening.
- 4.7 A readily accessible shut off installed at each burner, where required, to control flow of fuel in normal operations or to avoid spillage during servicing. (Prefer fire-o-matic type automatic shut-off).

#### **5.0 CONTROLS**

- 5.1 Oil burners shall have an electric switch for emergency stop. This switch shall disconnect power to both the burner itself and any power venting device (if present). The switch shall be located outside of the room enclosing the burner unit.
- 5.2 **An electric switch shall be located at the burner so service personnel may view operation of the burner. This switch shall disconnect power only to the burner, not the power venting device (if present). Power venting device must purge for a minimum of three (3) minutes.**
- 5.3 If a forced draft fan is installed, burner shall not fire if the fan is inoperative.
- 5.4 A thermally protected electrical shut off switch shall be located over the burner (fire-o-matic preferred).
- 5.5 Electrical panels must be properly labeled.

#### **6.0 CLEARANCE**

- 6.1 If a heating unit is found other than in a basement or a fire resistive location, refer it to the Fire Inspector.
- 6.2 Power venting units must not vent within four (4) feet of any opening.

#### **NOTE FOR NEW CONSTRUCTION**

**At the time of inspection of oil burner and tank, Fire Department will be checking smoke detector and carbon monoxide detector installation and function. We will also be checking to see that the electrical panel is appropriately marked and that the correct street number is posted near the front door.**

**Any deviation from this form must meet N.F.P.A. guidelines or special waivers from the Fire Department before installation.**