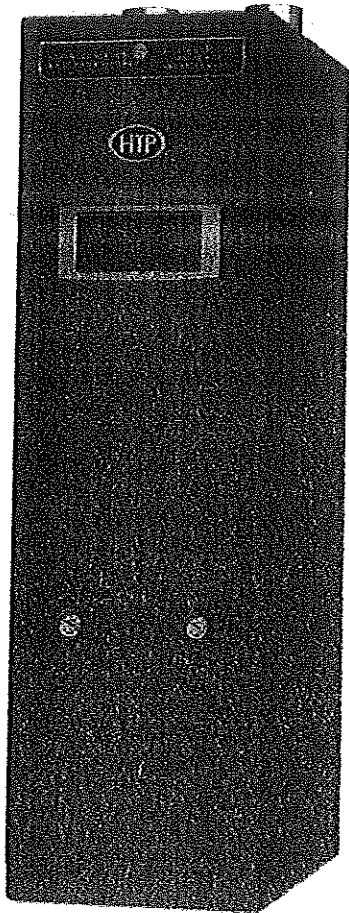


# Elite Fire Tube Combi

Floor Mount

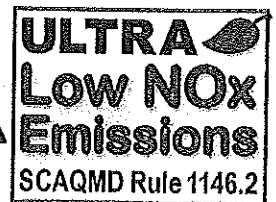


INSTALLATION / START-UP

MAINTENANCE / PARTS

WARRANTY

Models  
EFTC-140F



**NOTICE:** HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.

**NOTE TO CONSUMER: PLEASE KEEP ALL INSTRUCTIONS FOR FUTURE REFERENCE.**

The surfaces of these products contacted by consumable water contain less than 0.25% lead by weight, as required by the Safe Drinking Water Act, Section 1417.

## **⚠ WARNING**

IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE. DO NOT STORE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department. Installation and service must be provided by a qualified installer, service agency, or the gas supplier.

**D. CLEARANCES FOR SERVICE ACCESS**

See Figure 4 and Table 6 for recommended service clearances. If these minimum clearances are not provided, it may not be possible to service the appliance without removing it from the space.

**⚠ WARNING**

Space must be provided with combustion/ventilation air openings correctly sized for all other appliances located in the same space as the appliance. The appliance cover must be securely fastened to prevent it from drawing air from the appliance room. This is particularly important if the appliance is in a room with other appliances. Failure to comply with the above could result in substantial property damage, severe personal injury, or death.

| MINIMUM CLEARANCES   |   |
|--|---|
| Installation Clearances from Non-Combustibles / Combustibles | Recommended Service and Proper Operation Clearances |
| Top  | 18 in. (45.7 cm)                                    |
| Back   | 0 in. (0 cm)  |
| Front  | 24 in. (60.9 cm)                                    |
| Right Side   |   |
| Left Side  |   |
|  | 6 in. (15.2 cm)                                     |

Table 6 – Minimum Installation and Service Clearances

**NOTE:** For closet installations, a combustible door or removable panel is acceptable front clearance.

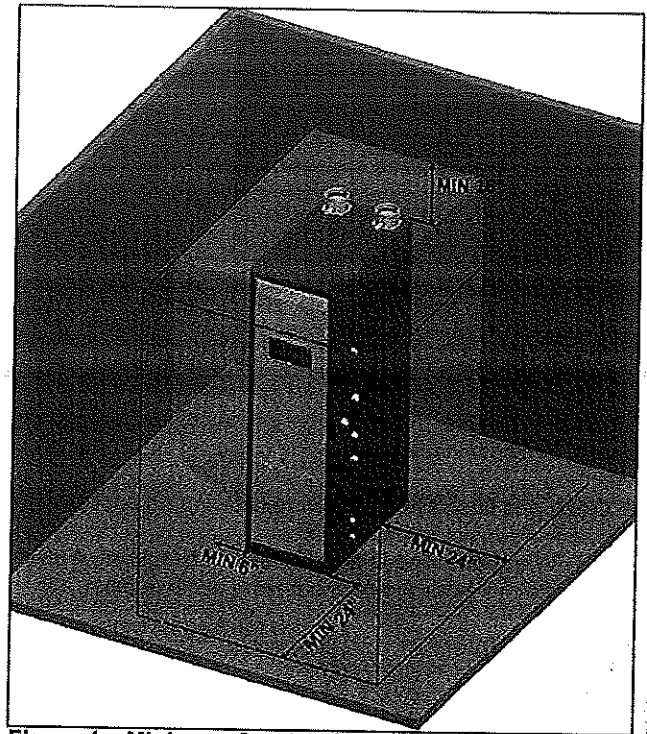


Figure 4 – Minimum Service Clearances

**MINIMUM CLEARANCES FROM COMBUSTIBLE MATERIALS**

- Hot water pipes – at least 1" from combustible materials.
- Exhaust vent pipe – at least 1" from combustible materials.

**CAUTION**

Always take future maintenance into consideration when locating the appliance. If the appliance is located in an installation location with limited clearances, it may be necessary to remove the appliance from the space to perform maintenance. Failure to consider maintenance when determining installation location could result in property damage.

**E. RESIDENTIAL GARAGE, CLOSET, AND ALCOVE INSTALLATIONS**

**CAUTION**

Check with your local Authority Having Jurisdiction for requirements when installing boiler in a garage, closet, or alcove. Please read the entire manual before attempting installation. Failure to properly take factors such as boiler venting, piping, condensate removal, and wiring into account before installation could result in wasted time, money, and possible property damage and personal injury.

**PRECAUTIONS**

If the boiler is located in a residential garage, it should be installed per the latest edition of the National Fuel Gas Code, ANSI Z223.1, and CGA-B149 Installation Code in Canada.

- Mount the bottom of the boiler a minimum of 18" above the floor of the garage, to ensure the burner and ignition devices are well off the floor.
- Locate or protect the boiler so it cannot be damaged by a moving vehicle.

**⚠ WARNING**

For closet or alcove installations, a two pipe venting system must be used. Failure to follow this warning could result in substantial property damage, severe personal injury, or death.

**⚠ WARNING**

The space must be provided with correctly sized combustion/ventilation air openings for all other boilers located in the space with the boiler. Do not install the boiler in an attic. Failure to comply with these warnings could result in substantial property damage, severe personal injury, or death.

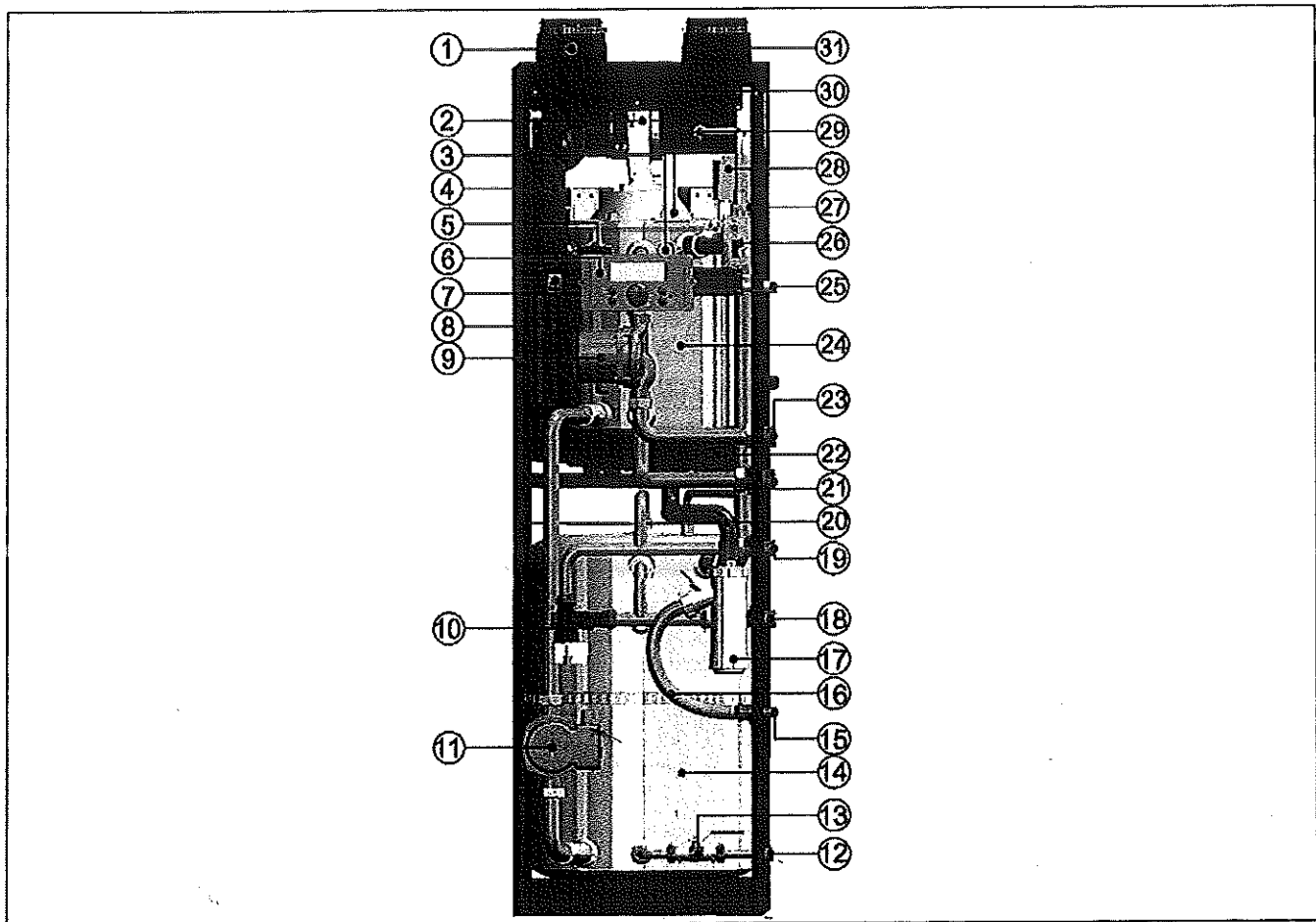


Figure 2 – EFT-140C Components

| NUMBER | COMPONENT DESCRIPTION             | NUMBER | COMPONENT DESCRIPTION     |
|--------|-----------------------------------|--------|---------------------------|
| 1      | Exhaust Vent Adapter              | 17     | Condensate Trap           |
| 2      | BLDC Fan                          | 18     | DHW Inlet Adapter         |
| 3      | Flame Detection Window            | 19     | DHW Outlet Adapter        |
| 4      | Main PCB                          | 20     | Condensate Hose 2         |
| 5      | Flame Detection Sensor            | 21     | CH Return Adapter         |
| 6      | Control Panel                     | 22     | APS (Air Pressure Switch) |
| 7      | Manual ON/OFF Power Switch        | 23     | CH Supply Adapter         |
| 8      | Exhaust Pipe                      | 24     | Heat Exchanger            |
| 9      | Internal CH Pump                  | 25     | Gas Inlet Adapter         |
| 10     | Mixing Valve                      | 26     | Gas Valve                 |
| 11     | Internal Recirculation Pump (DHW) | 27     | Air Vent                  |
| 12     | Water Discharge Adapter           | 28     | Ignition Transformer      |
| 13     | Water Discharge Valve             | 29     | Igniter                   |
| 14     | Internal Storage Tank             | 30     | Air Intake Pipe           |
| 15     | Condensate Trap Adapter           | 31     | Air Intake Adapter        |
| 16     | Condensate Hose 1                 |        |                           |

Table 5 – EFT-140C Component List

## PART 4 – PREPARE APPLIANCE LOCATION

### A. UNCRATING THE APPLIANCE

#### **⚠ WARNING**

**UNCRATING APPLIANCE** – Any claims for damage or shortage in shipment must be filed immediately against the transportation company by the consignee.

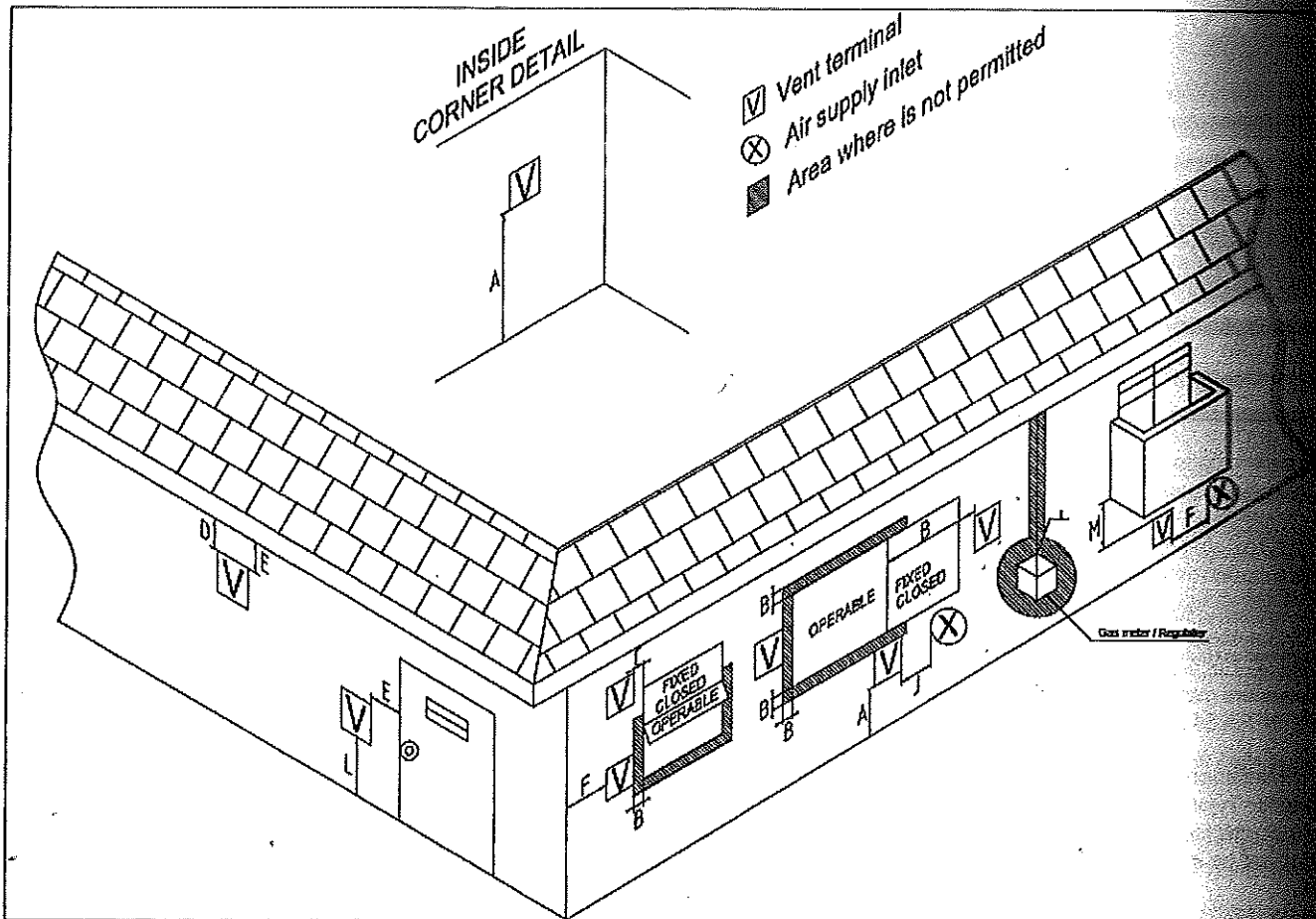


Figure 6 – Vent Termination Detail

|   | DESCRIPTION  | US  | CANADA  |
|---|--|---|---|
| A | Clearance above grade, veranda, porch, deck, or balcony  | 1 foot                                      | 1 foot  |
| B | Clearance to window or door that may be opened   | 1 foot                                      | 3 feet  |
| C | Clearance to permanently closed window   | *   | *   |
| D | Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet from the center line of the terminal | *   | *   |
| E | Clearance to unventilated soffit   | *   | *   |
| F | Clearance to outside corner  | *   | *   |
| G | Clearance to inside corner   | *   | *   |
| H | Clearance to each side of center line extended above meter / regulator assembly  | *   | 3 feet with a height above meter / regulator assembly |
| I | Clearance to service regulator vent outlet   | *   | 3 feet  |
| J | Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance                                    | 1 foot                                      | 3 feet  |
| K | Clearance to a mechanical air supply inlet   | 3 feet above if within 10 feet horizontally | 6 feet  |
| L | Clearance above paved sidewalk or driveway located   | *   | 7 feet  |
| M | Clearance under veranda, porch, deck, or balcony   | *   | 1 foot  |

Table 8 – Vent Termination Clearances

\*NOTE: For clearances not specified in ANSI Z223.1/NFPA 54 or CAN/CSA-B 149.1, please use clearances in accordance with local installation codes and the requirements of the gas supplier.

**B. APPROVED VENT MATERIALS**

**NOTICE**

Consult Table 9 or the most recent edition of ANSI Z223.1/NFPA 54 or CAN/CSA B149.1 as well as all applicable local codes and regulations when selecting vent pipe materials.