

# TOWN OF BRANFORD

## Application to Install Heating, Ventilating and Air Conditioning

Date \_\_\_\_\_

As required by the Heating, Ventilating and Air Conditioning Ordinance, of the Town of Branford, the following plan is submitted for approval, and we, the undersigned, do hereby agree to do the heating, Ventilating and Air Conditioning Work in the building specified herein according to the plan, if approved, and in accordance with the ordinance in relation to this work.

Building Location \_\_\_\_\_ Old or New \_\_\_\_\_ No. of Stories \_\_\_\_\_

Owner \_\_\_\_\_ Owner's Address \_\_\_\_\_

Contractor \_\_\_\_\_ Address \_\_\_\_\_ Phone # \_\_\_\_\_

Material of Building \_\_\_\_\_ Insulated, Yes or No \_\_\_\_\_

Number of Families \_\_\_\_\_ Number of Offices \_\_\_\_\_ Number of Stores \_\_\_\_\_

Type of Heating System \_\_\_\_\_ Total Heat Loss in B. T. U. \_\_\_\_\_

Make of Boiler \_\_\_\_\_ Furnace \_\_\_\_\_ Air Conditioner \_\_\_\_\_

Maximum Capacity of Unit \_\_\_\_\_ Of Burner \_\_\_\_\_

Maker's Number \_\_\_\_\_ Grate Surface \_\_\_\_\_ Square Feet \_\_\_\_\_

Location of Heating Unit \_\_\_\_\_

I certify that the heating installation at the above location has the proper amount of B. T. U. output so as the structure to be heated will be at 70 degrees temperature at 10 degrees below zero. Also that all phases of work and materials will be in accordance with regulations of the Town of Branford.

**PROVIDE INFORMATION  
ON REVERSE SIDE  
PER AHRE 90.1**

Authorized Signature

\_\_\_\_\_  
LICENSE #  
\_\_\_\_\_

Estimate of Work \_\_\_\_\_

Permit Fee \$ \_\_\_\_\_

Paid \_\_\_\_\_

Signed \_\_\_\_\_

Permit No.: \_\_\_\_\_

Date Issued: \_\_\_\_\_

Approved \_\_\_\_\_

Building Inspector \_\_\_\_\_

ASHRE 90.1

MECHANICAL SYSTEMS & EQUIPMENT REQUIREMENTS

1. Mechanical equipment data including the following information:
  - a. Equipment capacity (Btuh).
  - b. System design air flow rates (cfm).
  - c. Load calculations and details of equipment/system sizing.
  - d. Equipment efficiencies (peak and part-load).
  - e. System and/or zone control capabilities including control sequence, terminal device schedule (where applicable) and provisions for humidity control (where applicable).
  - f. Provisions for automatic setback/shutdown.
  - g. Indicate those outdoor air supply and exhaust systems to have automatic shutoff or volume reduction dampers.
  - h. Load calculations utilizing local design parameters.
2. Economizer controls including the following:
  - a. Air or water-side economizer, provide calculations for water-side economizers.
  - b. Equipment heating capacity and cfm on equipment schedule.
  - c. Economizer integration control.
3. Fan system data including the following:
  - a. capacity (cfm).
  - b. Nameplate HP and brake HP.
  - c. Motor efficiency.
  - d. Flow control type (variable speed drive, constant, etc.).
4. Pump system data including the following:
  - a. Pump system HP.
  - b. Provisions for system flow control.
5. Construction of ducts, system static pressure(s), including support and sheet metal thickness and seal classification requirements (where applicable).
6. Duct and/or hydronic-piping lining and insulation materials (show insulation R-value and vapor retarder on construction documents (where applicable)).
7. Air and/or hydronic system balancing.
8. Boiler and water heater equipment and piping details including safety controls and distribution piping layout.
9. Control system testing.

PERMIT NOT VALID WITHOUT  
PROPER INSPECTION