STATE OF RHODE ISLAND

MECHANICAL PERMIT APPLICATION

MUNICIPALITY FOSTER _____ ISSUED _____ NUMERICAL CODE _____ PERMIT NO. _____

APPLICATION DATE _____ CENSUS TRACT _____ FEE REC. $ _____ FEE BY _____

1. STREET LOCATION _____ No. of stories _____

2.3.4. PARCEL ID _____ 5. MATERIAL OF STRUCTURE IS _____

6. USE OF STRUCTURE PREVIOUS _____ PROPOSED _____

7. OWNER _____ TEL. NO. _____

8. CONTRACTOR _____ TEL. NO. _____

9 ARCH. OR ENG. _____ ADDRESS _____ TEL. NO. _____

10. STAMPED PRINTS YES____ NO____ 11. ARCH.OR ENG. REG. NO. _____ 12. CONTRACTOR'S LIC. NO. _____

13. RATING OF BOILER OR FURNACE _____ Drawings submitted Yes _____ No _____

14. Check one: ____ Construct ____ Install ____ Replace ____ Reconstruct 15. Estimated Cost of Labor and Material: $ _____

16. Floor location of equipment____ Cellar ____ 1st Flr.____ 2nd Flr.____ 3rd Flr.____ Other _____

17. CAPACITY of STORAGE TANK _____ EXISTING _____ NEW _____

18. DESCRIPTION OF WORK TO BE PERFORMED _____

19. Estimated Cost of Labor and Materials: _____

MUNICIPAL MECHANICAL PERMIT FEE: = $ _____

CE & ADA FEE : _____ x .001 = $ _____

ESTIMATED COST x .001

(1 & 2 FAMILY DWELLINGS LIMITED TO CE & ADA FEE OF $50.00) TOTAL PERMIT FEE = $ _____

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the owner of this building and the undersigned agree to conform to all application codes and ordinances of the municipality

Tel. No. _____ _____

Signature of Applicant

Installation for: Incinerators w/ or w/o Air Pollution Control. Settling Chambers. Scrubber AfterBurner.	Boiler Installations. 200.000 BTU or more. or for Dwellings of 6 Units or More.	Elevators. Dumbwaiters. Moving Stairs, and certain other Conveying Devices
This Application to Install or Renovate the above must also be reviewed by: R.I. DEPT OF HEALTH DIVISION OF AIR POLLUTION CONTROL Davis Street Providence, RI 02903	This Application to Install or Renovate the above must also be reviewed by: R.I. DEPT OF LABOR DIVISION OF OCCUPATIONAL SAFETY, BOILER UNIT 220 Elmwood Avenue Providence, RI 02907	This Application to Install or Renovate the above must also be reviewed by: R.I. DEPT OF LABOR DIVISION OF OCCUPATIONAL SAFETY, BOILER UNIT 220 Elmwood Avenue Providence, RI 02907

DO NOT WRITE BELOW THIS LINE MECHANICAL PERMIT

PERMIT GRANTED:

DATE _____

BY _____

MECHANICAL INSPECTOR

than 70°F (21°C) and a cooling temperature set point no lower than 78°F (26°C).

N1103.1.2 (R403.1.2) Heat pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

N1103.2 (R403.2) Ducts. Ducts and air handlers shall be in accordance with Sections N1103.2.1 through N1103.2.3.

N1103.2.1 (R403.2.1) Insulation (Prescriptive). Supply ducts in attics shall be insulated to a minimum of R-8. All other ducts shall be insulated to a minimum of R-6.

Exception: Ducts or portions thereof located completely inside the *building thermal envelope*.

N1103.2.2 (R403.2.2) Sealing (Mandatory). Ducts, air handlers, and filter boxes shall be sealed. Joints and seams shall comply with Section M1601.4.1 of this code.

Exceptions:

1. Air-impermeable spray foam products shall be permitted to be applied without additional joint seals.
2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.
3. Continuously welded and locking-type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500 Pa) pressure classification shall not require additional closure systems.

Duct tightness shall be verified by either of the following:

1. Postconstruction test: Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 square feet (9.29 m^2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
2. Rough-in test: Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 ft^2 (9.29 m^2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m^2) of conditioned floor area.

Exception: The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope.

N1103.2.2.1 (R403.2.2.1) Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design air flow rate when tested in accordance with ASHRAE 193.

N1103.2.3 (R403.2.3) Building cavities (Mandatory). Interior building framing cavities shall be permitted to be used as return ducts or plenums. (BP)

N1103.3 (R403.3) Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

N1103.3.1 (R403.3.1) Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance, and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

N1103.4 (R403.4) Service hot water systems. Energy conservation measures for service hot water systems shall be in accordance with Sections N1103.4.1 and N1103.4.2.

N1103.4.1 (R403.4.1) Circulating hot water systems (Mandatory). Circulating hot water systems shall be provided with an automatic or readily *accessible* manual switch that can turn off the hot-water circulating pump when the system is not in use.

N1103.4.2 (R403.4.2) Hot water pipe insulation (Prescriptive). Insulation for hot water pipe with a minimum thermal resistance (*R*-value) of R-3 shall be applied to the following:

1. Piping larger than $^3/_4$-inch nominal diameter.
2. Piping serving more than one dwelling unit.
3. Piping from the water heater to kitchen outlets.
4. Piping located outside the conditioned space.
5. Piping from the water heater to a distribution manifold.
6. Piping located under a floor slab.
7. Buried piping.
8. Supply and return piping in recirculation systems other than demand recirculation systems.
9. Piping with run lengths greater than the maximum run lengths for the nominal pipe diameter given in Table N1103.4.2.

All remaining piping shall be insulated to at least R-3 or meet the run length requirements of Table N1103.4.2.

TABLE N1103.4.2 (R403.4.2)
MAXIMUM RUN LENGTH (feet)[a]

Nominal pipe diameter of largest diameter pipe in the run (inch)	$^3/_8$	$^1/_2$	$^3/_4$	$>^3/_4$
Maximum run length	30	20	10	5

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.
a. Total length of all piping from the distribution manifold or the recirculation loop to a point of use.

N1103.5 (R403.5) Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of Section M1507 of this code or with other approved means of ventilation. Outdoor air intakes and