

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

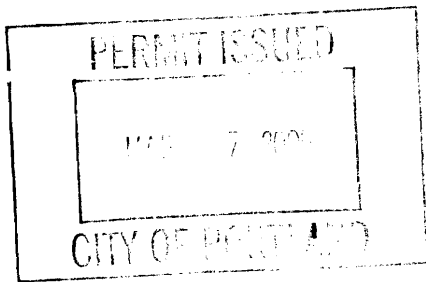
Permit No: 09-0168	Issue Date: 3/16/09	CBL: 303 E001001
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Location of Construction: 380 WARREN AVE	Owner Name: THREE EIGHTY LLC	Owner Address: 120 EXCHANGE ST # 106	Phone:
Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone 2078544822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: B-4

Past Use: commercial - Connected w/ permit# 081168	Proposed Use: Commercial / warehouse - install a suspended Trane Furnace	Permit Fee: \$60.00	Cost of Work: \$3,750.00	CEO District: 5
Proposed Project Description: install a suspended Trane Furnace		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied * See Condition	INSPECTION: Use Group: S Type: SB IMC-2003	
		Signature: <i>KG</i>	Signature: <i>cl</i>	
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied				
Signature: _____ Date: _____				

Permit Taken By: Ldobson	Date Applied For: 03/05/2009	Zoning Approval
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MVI <input type="checkbox"/> Date: <i>3/5/09</i>	<p>Zoning Appeal</p> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<p>Historic Preservation</p> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>S</i>
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CERTIFICATION

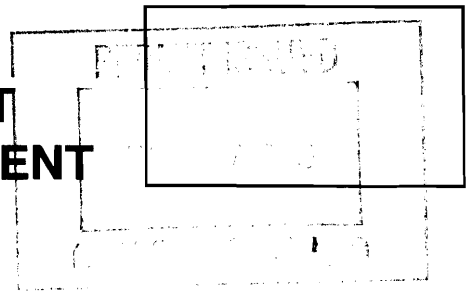
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 303-E 1 Use of Building _____ Date 3-4-09
 Name and address of owner of appliance Alpine Realty, 380 Warren Ave, Portland
 Installer's name and address HVAC Services Inc, 73 Bradley Drive, Westbrook
 Telephone 854-4822

Location of appliance:

- Basement
- Attic
- Floor ✓ suspended
- Roof BACK wall-top

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Trane

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 6365
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type PVC UL# _____

Type of Fuel Tank

- Oil
- Gas

Size of Tank 100lb

Number of Tanks 1

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 3,750

Permit Fee: \$ 60

Approved

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: _____

- See attached letter or requirement

Oliver M
Inspector's Signature

3/16/09
Date Approved

Signature of Installer [Signature]

White - Inspection ^{3 req} Yellow - File Pink - Applicant's Gold - Assessor's Copy

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

 X **Final inspection required at completion of work.**

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Signature of Applicant/Designee

Date

Signature of Inspections Official

Date

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Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone: (207) 854-4822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Commercial / warehouse - install a suspended Trane Furnace	Proposed Project Description: install a suspended Trane Furnace
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Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 03/05/2009
Note: **Ok to Issue:**


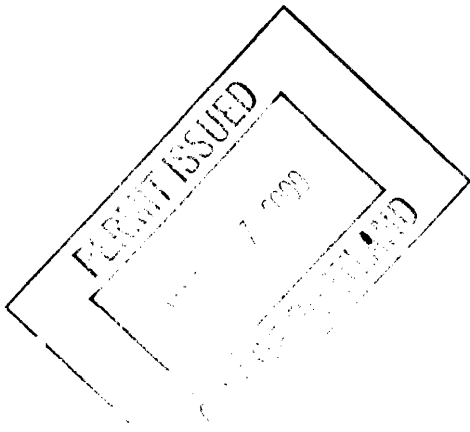
Dept: Building **Status:** Approved with Conditions **Reviewer:** Chris Hanson **Approval Date:** 03/16/2009
Note: This bldg. Was reviewed as cold storage .Applicant wants to heat bldg. MUST meet energy code.Spoke w/ Tim Albair about cold storage use, this heater is to help keep the concrete floor from buckling from frost not to heat intire space. I told him that a change of use permit would be required for any other use than cold storage.

- 1) This permit is for the heating unit for the cold storage ,any other use requires a seperate Change of Use Permit.
- 2) The appliance shall be installed in accordance with the IMC 2003 and NFPA 211.
- 3) The installation must comply with the State of Maine Gas Regulations.
- 4) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and aprprval prior to work.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Capt **Approval Date:** 03/06/2009
Note: **Ok to Issue:**

- 1) Install shall comply with all manufacture's specifications.

OK-to Issue

Invoice

HVAC SERVICES, INC.

73 BRADLEY DRIVE
WESTBROOK, MAINE 04092
(207) 854-4822 (207) 854-0775 (fax)

February 24, 2009

Summary: WARRANTY
Invoice #: 1609-787
Due Date: 3/26/2009
Job Date: 1/28/2009

Bill To:
DELTA REALTY

120 EXCHANGE STREET
PORTLAND, ME 04101

207-828-4650

207-874-2080

WARRANTY
#

Job Name:

WARREN AVE WAR 787
NEW WAREHOUSE HEATING SYSTEM
WARRREN AVE.
PORTLAND, ME 04102-2314

Item Code	Description	Hrs/Qty	Price	Amount
	THE INSTALLATION OF (1) HIGH EFFICEINCY TRANE FURNACE WITH DISTRIBUTION PLENUM TO HEAT THE NEW WAREHOUSE SPACE.			
	OUR WORK TO INCLUDE: NEW TRANE FURNACE, NEW MULTI DIRECTION DISTRIBUTION BOX, EQUIPMENT HANG AND SET, GAS PIPING FROM NEW TANK LOCATION, VENT PIPING THROUGH SIDEWALL, LOW VOLTAGE THERMOSTAT, AND A COMPLETE START UP AS RECOMMENDED BY THE MANUFACTURER.			
	EXCLUSIONS: LINE VOLTAGE WIRING, PROVISION OF PROPANE SERVICE 2 PSI, AND STRUCTURAL ANALYSIS OR MODIFICATIONS IF REQUIRED.			
	INSTALLATION OF (1) HIGH EFFICEINCY TRANE FURNACE		3750.00	
Model #:	TUD1D140A9601A	Serial #:	8395PD21G	War. Exp.1/28/2010 Lab Exp.: 1/29/2010
				Total
				\$0.00

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon delays beyond our control. Purchaser agrees to pay all costs of collection, including attorney's fees.

Terms: NET 30
WARRANTY TIM 1/28/09

Ren. GAS
PNT 6365

FILE NO.
SK-01

FORM NO. 250-10

JOB
SUSPENDED LOADS

MADE BY
LGE

CKD. BY

DATE

PAGE

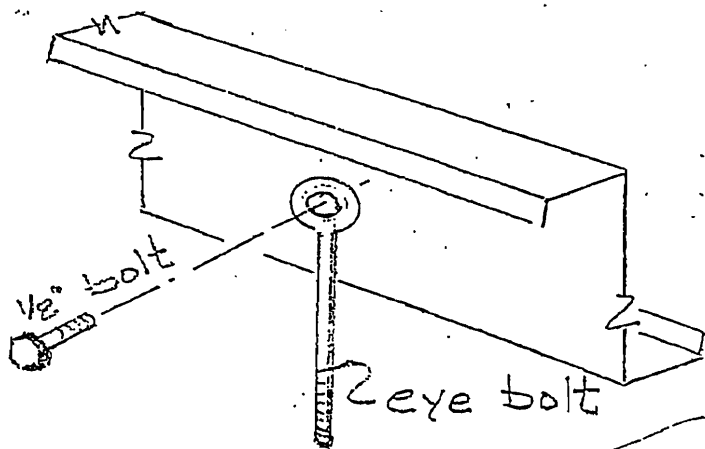
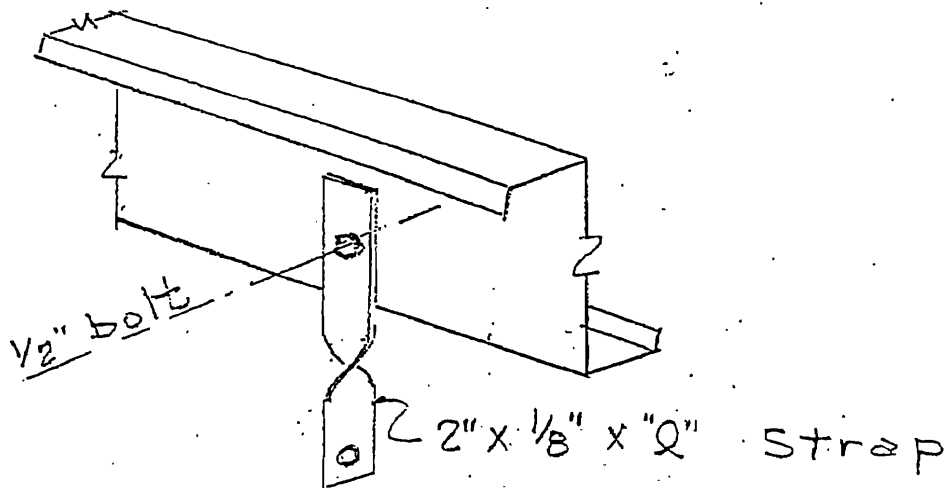
OF

Z PURLINS

REVISION
1
2

DIV.

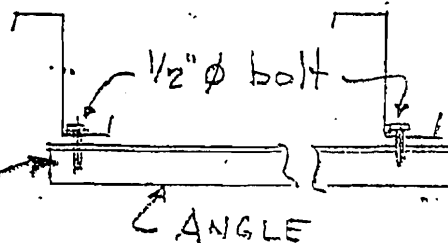
ACCEPTABLE ATTACHMENTS LOADS - TO Z PURLINS



THIS
DETAIL

ATTACH ANGLE
TO SUPPORT
PURLINS

DET - 2



MULTIPLE PURLIN
SUSPENSION

Package Industries Inc.

15 Harback Road - Sutton, MA 01590 - (508) 865-5871 FAX: (508) 865-9130



Re.: Delta Realty Addition / *Alpine Realty*
380 Warren Avenue
Portland, Maine 04103
PII Order: 0808-035

Date: January 28, 2009

To whom it may concern,

Please be advised that the purlins on the above referenced order/building may safely support a 250 lb. 'unit heater' (or similar piece of equipment) in the middle bay. The unit in question should be supported by, or suspended from two purlins.

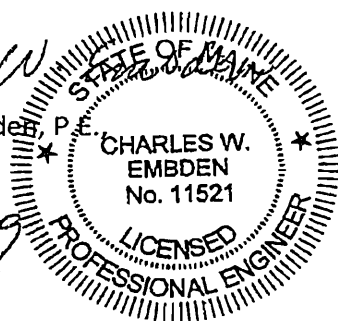
Three methods of attaching the support members to the roof purlins are shown on sketch 'SK - 01' (copy attached). The preferred method is shown at the bottom of the sheet and is identified as 'DET - 2'.

Please feel free to contact me or one of the Engineering Technicians if, after reviewing the sketch, you have any questions, comments or concerns.

Yours truly,

Charles W. Embden
Charles W. Embden, P.E.
Chief Engineer

1/28/09



General Data ①

TYPE	Upflow / Horizontal	VENT COLLAR — Size (in.)	4 Round
RATINGS ②		HEAT EXCHANGER	
Input BTUH	140,000	Type-Fired	Alum. Steel
Capacity BTUH (ICS) ③	111,000	-Unfired	
AFUE	80.0	Gauge (Fired)	20
Temp. rise (Min.-Max.) °F.	40 - 70	ORIFICES — Main	
BLOWER DRIVE	DIRECT	Nat. Gas Qty. — Drill Size	7 — 45
Diameter-Width (In.)	11 x 10	L.P. Gas Qty. — Drill Size	7 — 56
No. Used	1	GAS VALVE	Redundant - Single Stage
Speeds (No.)	4	PILOT SAFETY DEVICE	
CFM vs. in. w.g.	See Fan Performance	Type	Hot Surface Ignition
Motor HP	3/4	BURNERS — Type	Multiport Inshot
R.P.M.	1075	Number	7
Volts/Ph/Hz	115/1/60	POWER CONN. — V/Ph/Hz ④	115/1/60
COMBUSTION FAN - Type	Centrifugal	Ampacity (In Amps)	13.8
Drive - No. Speeds	Direct - 1	Max. Overcurrent Protection (amps)	20
Motor HP - RPM	1/50 - 3180	PIPE CONN. SIZE (IN.)	1/2
Volts/Ph/Hz	115/1/60	DIMENSIONS	H x W x D
F.L. Amps	1.09	Crated (In.)	41 - 3/4 x 26-1/2 x 30-1/2
FILTER — Furnished?	No	Uncrated (In.)	40 x 24-1/2 x 28
Type Recommended	High Velocity	WEIGHT	
Hi Vel. (No.-Size-Thk.)	1 - 24x25 - 1in.	Shipping (Lbs.) / Net (Lbs)	193 / 181

① Central Furnace heating designs are certified by the American Gas Association Inc. Laboratories.

② Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet; Ratings should be reduced at the rate of 4% for each 1000 feet above sea level.

③ Based on U.S. Government Standard Tests.

④ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

Mechanical Specifications

NATURAL GAS MODELS—Central heating furnace designs are certified by the American Gas Association for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

SAFE OPERATION — The Integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Dual solenoid combination gas valve and regulator provide extra safety.

QUICK HEATING—Durable, cycle tested, heavy gauge **aluminized steel heat exchanger** quickly transfers heat to provide warm conditioned air to the structure. **Low energy power vent blower**, to increase efficiency and provide discharge of gas fumes to the outside, allows common venting with hot water heater.

BURNERS — Multi-port, in-shot burners will give years of quiet and efficient service. All models can be converted to **L.P. gas** without changing burners.

INTEGRATED SYSTEM CONTROL— Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service.

AIR DELIVERY — The multispeed, direct-drive blower motor, with sufficient airflow range for most heating and cooling requirements, will switch from heating to cooling speeds on demand from room thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed. (Fan relay and 35VA control transformer is standard).

STYLING — **Heavy gauge steel and "wraparound" cabinet construction** is used in the cabinet with baked-on enamel finish for strength and beauty. The heat exchanger section of the cabinet is completely lined with foil-faced fiberglass insulation. This results in quiet and efficient operation due to the excellent acoustical and insulating qualities of fiberglass.

FEATURES AND GENERAL OPERATION — These High Efficiency Gas Furnaces employ a Hot Surface Ignition system, which eliminates the waste of a constantly burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- Low energy power venter.
- Vent proving differential switch.

Since Trane has a policy of continuous product and product data improvement, it reserves the right to change specifications and design without notice.

Technical Literature - Printed in U.S.A.

Trane
6200 Troup Highway
Tyler, TX 75707
www.trane.com



Library	-
Product Section	-
Product	Furnace
Model	TUD1
Literature Type	Submittal
Sequence	-
Date	2/08
File No.	TUD1D140-SUB-1
Supersedes	TUD1D140A9601A