

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 05-0192	Issue Date: PERMIT ISSUED MAR - 2 2005	137 0013001
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Location of Construction: 887 Forest Ave	Owner Name: Amba Llc	Owner Address: 887 Forest Ave	Phone: 207-874-8822
Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: B2

Past Use: Commercial	Proposed Use: Commercial install a Bryant furnace in the roof same footprint	Permit Fee: \$93.00	Cost of Work: \$8,000.00	CEO District: 4
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: M Type: HVAC	

Proposed Project Description: install a Bryant furnace in the roof same footprint	Signature: <i>[Signature]</i>	Signature: <i>JMB 3/1/05</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: dmartin	Date Applied For: 02/23/2005	Zoning Approval	
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<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. 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.. 	Special Zone or Reviews <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"/> MM <input type="checkbox"/> Date: <i>JMB 3/1/05</i>	Zoning Appeal <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: _____	Historic Preservation <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>JMB</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

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Permit No: 05-0192	Date Applied For: 02/23/2005	CBL: 137 C013001
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Location of Construction: 887 Forest Ave	Owner Name: Amba Llc	Owner Address: 887 Forest Ave	Phone:
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 install a Bryant furnace in the roof same footprint	Proposed Project Description: install a Bryant furnace in the roof same footprint
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Dept: Zoning **Status:** Approved **Reviewer:** Jeanine Bourke **Approval Date:** 03/01/2005
Note: **Ok to Issue:**

Dept: Building **Status:** Approved **Reviewer:** Jeanine Bourke **Approval Date:** 03/01/2005
Note: **Ok to Issue:**

1) Installation shall comply with 2003 International Mechanical Code and State of Maine Oil and Solid Fuel Board Laws and Rules

Dept: Fire **Status:** Approved **Reviewer:** Lt. MacDougal **Approval Date:**
Note: **Ok to Issue:**



FILL IN AND SIGN WITH INK

137 E 015

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 887 FOREST AVE. Use of Building RETAIL Date 2-23-05
Name and address of owner of appliance AMBA INVESTMENT INC.

Installer's name and address HVAC SERVICES
WESTBROOK, ME. Telephone _____

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: BYRANT Same footprint

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 # MS30007672
- Gas # _____
- Other _____

Type of Chimney:

Masonry Lined
Factory built _____

Metal Existing
Factory Built U.L. Listing # _____

Direct Vent
Type _____ UL# _____

Type of Fuel Tank

- Oil
- Gas

Size of Tank 275

Number of Tanks 2

Distance from Tank to Center of Flame 100 feet.

Cost of Work: \$ 8000

Permit Fee: \$ 93.00

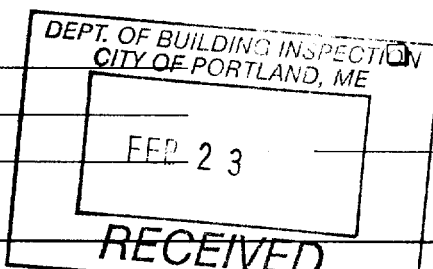
Approved

Approved with Conditions

Fire: [Signature]

Ele.: _____

Bldg.: [Signature]



See attached letter or requirement

Inspector's Signature _____ Date Approved _____

Signature of Installer _____

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

HNTB Corporation
Engineers Architects Planners

2 Thomas Drive
Westbrook, ME 04092

Telephone (207) 774-5155
Facsimile (207) 772-7410
www.hntb.com

February 18, 2005

HNTB

Mr. Christopher Gaudet
Project Manager
AMBA, LLC
897 Forest Avenue
Portland, ME 04103

Re: Installation of New Furnaces

Dear Mr. ~~Gaudet~~ *Chris*:

This letter is to address your concerns regarding the roof trusses for the property known as RSVP Discount Beverage located at 887 Forest Avenue due to the proposed installation of two 600 pound furnace units which are to be hung from the trusses. Our evaluation of the existing steel trusses indicates that there is sufficient carrying capacity for the furnace loads. This finding is based on the following assumptions:

- Each unit will be placed midway between two trusses with no common truss.
- The units will be located in the immediate area of the existing 12" flue pipe.
- The roof construction consist of typical 4 ply built-up-roofing (BUR).
- The material for the truss chords is composed of Grade 33 steel or higher.
- No holes will be drilled in the steel angles of the truss chords.

Support for installation of the new units may be similar to the current details used for supporting the existing furnace which is to be replaced. That is, a pair of transverse L's 4x3x5/16 with long legs vertical (LLV) spaced 33" apart back-to-back and welded to the underside of the bottom chord of the truss using a minimum of 6 lineal inches of 3/16" fillet weld at each point of attachment will be sufficient. Threaded rods 1/2" dia. may also be used to hang the units from the support angles.

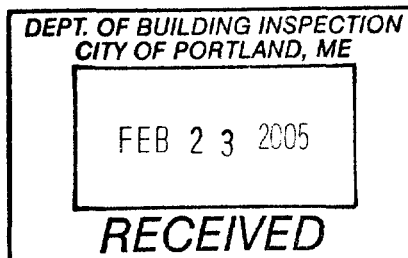
Should you have any questions or require additional information, please do not hesitate to contact me @ x224 or Jim Bellenoit @ x244.

Best regards,

HNTB Corporation



Paul T. Godfrey, P.E.
Senior Engineer



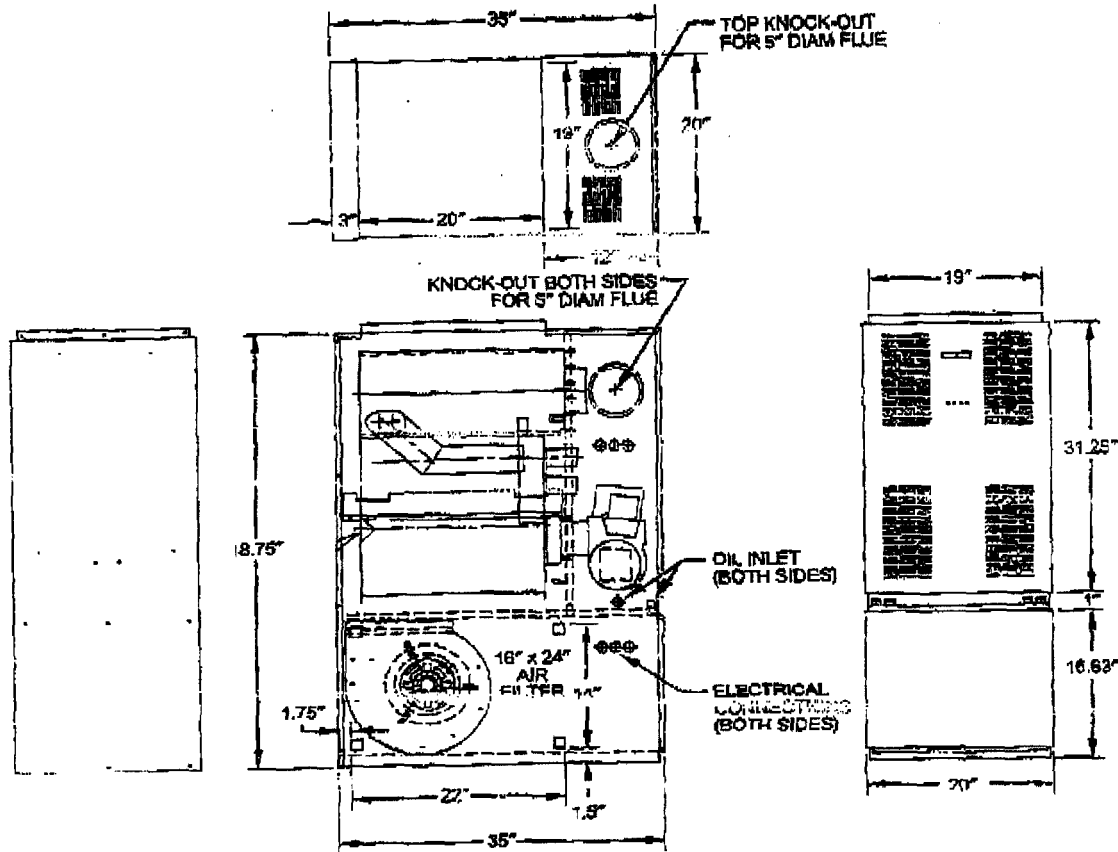


Fig. 2 - Dimensional Drawing

AST245

CAUTION: These instructions are intended to be used by qualified personnel who have been trained in installing this type of furnace. Installation of this furnace by an unqualified person may lead to equipment damage and/or a hazardous condition which may lead to bodily harm.

All local and national code requirements governing installation of oil burning equipment, wiring, and flue connections must be followed. Some of the codes (issued by the Canadian Standards Association, the National Fire Protection Agency, and/or the American National Standards Institute) that may be applicable are:

- ANSI/NFPA 31 INSTALLATION OF OIL BURNING EQUIPMENT
- ANSI/NFPA 211 CHIMNEYS, FIREPLACES, VENTS, AND SOLID FUEL BURNING APPLIANCES
- ANSI/NFPA 90B WARM AIR HEATING AND AIR CONDITIONING SYSTEMS
- ANSI/NFPA 70 NATIONAL ELECTRICAL CODE
- CSA B139 INSTALLATION CODE FOR OIL BURNING EQUIPMENT
- CSA C22.1 CANADIAN ELECTRICAL CODE

Only the local version of these codes should be used, and are available from either: The National Fire Protection Agency,

Batterymanch Park, Quincy, MA 02260, or The Canadian Standards Association, 178 Rexdale Blvd., Rexdale, Ontario M9W 1R3

Recognize safety information. This is the safety-alert symbol **▲**. When you see this symbol on the furnace and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies a hazard which could result in personal injury or death. CAUTION is used to identify unsafe practices which would result in minor personal injury or product and property damage.

INTRODUCTION

The model 369AAN Furnace is capable of 70,000, 91,000, and 105,000 Btu/h input capacities. These 3 inputs are achieved by changing the nozzle on a single unit.

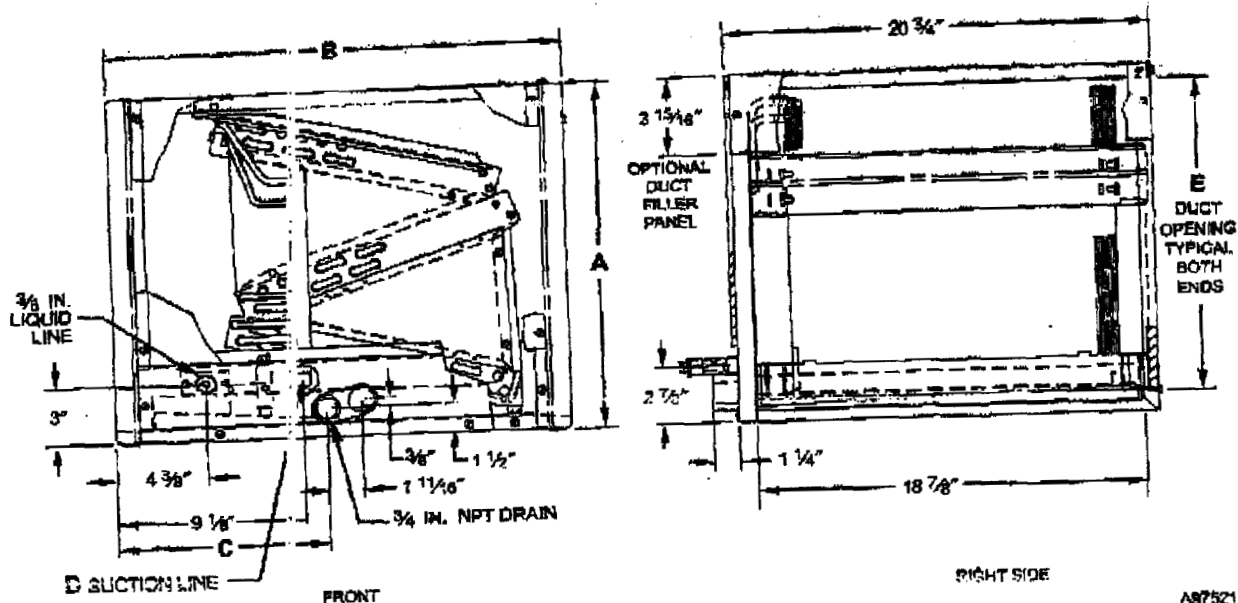
This furnace is a multipoise unit. It may be installed in the upflow, downdraft or horizontal configuration.

The furnace is shipped in the upflow configuration, complete with burner and controls. It requires a line voltage (115 vac) connection to control box, a thermostat hook-up as shown on wiring diagram, oil line connection(s), adequate clear work, and connection to a properly sized vent.

The air handling capacity of this furnace is designed for cooling airflow. Refer to Table 7 for expected airflows at various external face static pressures.

275 lbs

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CITY OF PORTLAND, ME
FEB 23 2005
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A87521

UNIT	A (IN.)	E (IN.)	F (IN.)	D (IN.)	E (IN.)	SHIPPING WEIGHT (LB)
CK3BXA024(O,T)17	17-9/16	19-1/16	10-1/16	5/8	16	37.0
CK3BXA030(O,T)17	17-9/16	19-1/16	10-1/16	3/4	16	40.5
CK3BXA036(O,T)17	17-9/16	22-1/16	10-1/4	3/4	16	45.5
CK3BXA042(O,T)21	21-1/16	22-1/16	10-1/4	7/8	19-1/2	47.0
CK3BXA048(O,T)21	21-1/16	22-1/16	10-1/4	7/8	19-1/2	51.0
CK3BXA060(O,T)24	24-9/16	28-1/8	13-3/16	7/8	23	64.0

Note: For the 10th digit position in the model number, O = standard copper coil and T = tin-plated copper coil.

Fig. 2—Dimensional Drawing

INTRODUCTION

The CK3B is a horizontal, multi-use cased furnace coil. (See Fig. 1.) With the use of field-supplied transition duct, these furnace coils can also be applied to other similar horizontal furnaces on the market. The CK3B is available in sizes 024 through 060. (See Fig. 2.)

NOTE: Models with tin-plated copper coils ("T" in the 10th position of the model number) are installed the same as standard copper coils.

INSTALLATION

The unit can be installed on a work platform, secured to roof truss in an attic, suspended from hangers on floor joists in crawl space, or installed on blocks. It is designed to allow airflow in either direction, to mate with horizontal-left (see Fig. 5) or horizontal-right (see Fig. 6) furnace installations.

NOTE: Before placing ductwork on casing opening, check the rubber grommet (see Fig. 3) to ensure that the grommet is located so the bottom end is within the condensation pan. Moisture on the header tube will run down the grommet and drip into the pan.

NOTE: Remove shipping braces from both ends of casing prior to installation. Also remove corrugated shipping block from inside the right end of casing prior to installation.

PROCEDURE 1—FURNACE ATTACHMENT

A. Attach coil to furnace:

The attachment plates (3) and filler plate (1) are packaged together and placed in coil casing. Remove these items, verifying the correct amount. Use the following procedure to attach CK3B horizontal coil to furnace.

1. Three attachment plates are used to attach coil to furnace. Application determines which end of the coil will be attached to the furnace.
2. Use self-tapping screws to mount attachment plates to coil casing. (See Fig. 4A.)
3. Connect furnace supply against coil casing.
4. Use self-tapping screws to attach furnace. (See Fig. 4B.)
5. Seal joint between coil casing and furnace to create air tight seal using locally approved materials.

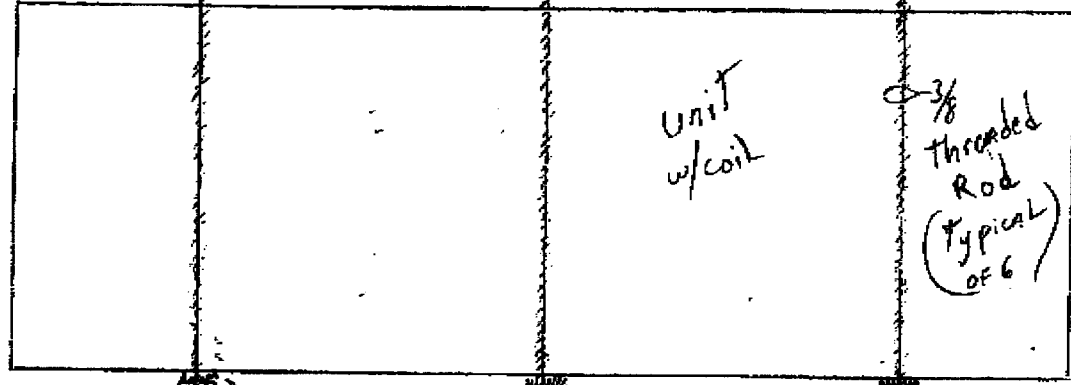
64 LBS

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CITY OF PORTLAND, ME
FEB 23 2005
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Bar Joist

un. thru Joist (Typ. of 3)

3/8 Nut



Unit w/coil

3/8 Threaded Rod (Typical of 6)

cork Pads For Vibration (Typ of 6)

unistrut (Typ.)
Double 3/8 nuts (Typ.)

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CITY OF PORTLAND, ME

FEB 23 2005

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CITY OF PORTLAND, MAINE

Department of Building Inspections

46 23 20 05

Received from MAX Construction

Location of Work 887 Forest Ave

Cost of Construction \$ 8000.00

Permit Fee \$ 93.00

Building (I1) Plumbing (I5) Electrical (I2) Site Plan (U2)

Other HVAC

CBL: 137 C C13

Check #: 7916

Total Collected \$ 93.00

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy