

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND

# BUILDING PERMIT

This is to certify that JAMES A NICE

Located At 76 WALTON ST

Job ID: 2011-11-2797-HVAC

CBL: 138- D-004-001

has permission to Install Baxi HT 380 Heating System

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

\_\_\_\_\_  
**Fire Prevention Officer**

\_\_\_\_\_  
**Code Enforcement Officer / Plan Reviewer**

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY  
PENALTY FOR REMOVING THIS CARD

## BUILDING PERMIT INSPECTION PROCEDURES

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

or email: [buildinginspections@portlandmaine.gov](mailto:buildinginspections@portlandmaine.gov)

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life • [www.portlandmaine.gov](http://www.portlandmaine.gov)*

Director of Planning and Urban Development  
Penny St. Louis

Job ID: 2011-11-2797-HVAC

Located At: 76 WALTON ST

CBL: 138- D-004-001

## **Conditions of Approval:**

### **Building**

The installation must comply with the State of Maine gas regulations.

All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM E 814 or UL 1479, per IBC 2009 Section 713.

### **Fire**

Installation shall comply with City Code Chapter 10.

Fuel-fired boilers shall be protected in accordance with NFPA 101, *Life Safety Code*.

Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*;

NFPA 54, *National Fuel Gas Code*;

NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*;

NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;

NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

**City of Portland, Maine - Building or Use Permit Application**

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

Job No: 2011-11-2797-HVAC	Date Applied: 11/15/2011	CBL: 138- D-004-001	
Location of Construction: 76 WALTON ST	Owner Name: JAMES A NICE	Owner Address: PO BOX 1938 PORTLAND, ME 04104	Phone:
Business Name:	Contractor Name: Nice Fuel Co.	Contractor Address: P.O Box 1938 PORTLAND MAINE 04104	Phone: (207) 761-3835
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-5
Past Use: <b>Four Family Dwelling</b>	Proposed Use: <b>Same: Four Family Dwelling - to install Baxi HT 380 heating system</b>	Cost of Work: \$4000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/condition <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: R-2 Type: HVAC
Proposed Project Description: <b>Baxi Ht 380 natural gas heating system</b>		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Gayle		<b>Zoning Approval</b>	

<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 informatin may invalidate a building permit and stop all work.</p>	<p><b>Special Zone or Reviews</b></p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM</p> <p>Date: <i>OK</i> <i>11/29/11</i></p>	<p><b>Zoning Appeal</b></p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p><b>Historic Preservation</b></p> <p><input checked="" type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>S</i></p>
	<b>CERTIFICATION</b>		

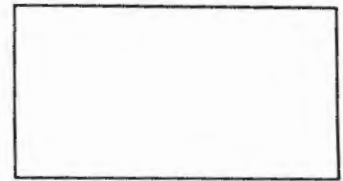
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the appication 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



2011 11 27 97 FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



R-5 138-D-4 +xv

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 76 WACTON ST Use of Building RESIDENTIAL Date 11-4-11

Name and address of owner of appliance ADAM NICE

Installer's name and address NICE FUEL CO.  
PO BOX 1938 PORTLAND ME. 04104 Telephone 207-761-3835

**Location of appliance:**

Basement  Floor  
 Attic  Roof

**Type of Fuel:** NATURAL GAS

Gas  Oil  Solid

**Appliance Name:** BIAXI HT 380

U.L. Approved  Yes  No

NATURAL GAS

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 2831  
 Other \_\_\_\_\_

**Type of Chimney:** MANUFACTURER SUPPLIED

Masonry Lined  
 Factory built NA

Metal  
 Factory Built U.L. Listing # NA

Direct Vent NA  
 Type \_\_\_\_\_ UL# \_\_\_\_\_

**Type of Fuel Tank:** NATURAL GAS

Oil  
 Gas

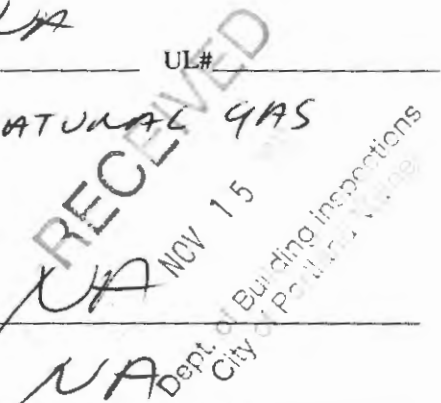
**Size of Tank:** NA

**Number of Tanks:** NA

**Distance from Tank to Center of Flame:** \_\_\_\_\_ feet.

**Cost of Work:** \$ 4000

**Permit Fee:** \$ 60



### Approved

### Approved with Conditions

Fire: \_\_\_\_\_  
Ele.: \_\_\_\_\_  
Bldg.: \_\_\_\_\_

See attached letter or requirement

Inspector's Signature \_\_\_\_\_ Date Approved \_\_\_\_\_

Signature of Installer [Signature]

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

# BAXI

## LUNA HT 380

**Condensing gas fired wall mounted combination boiler**  
**Chaudière murale à gaz à condensation à deux services**

**WARNING:** If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- Do not store or use 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 performed by a qualified installer, service agency or the gas supplier.

**AVERTISSEMENT:** Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

- Ne pas entreposer ni utiliser d'essence ou ni d'autres vapeurs ou liquides inflammables à proximité de cet appareil int de tout autre appareil.
  
- QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ
  - Ne pas tenter d'allumer d'appareil.
  - Ne touchez à aucun interrupteur; ne pas vous servir des téléphones se trouvant dans le bâtiment.
  - Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
  - Si vous ne pouvez rejoindre le fournisseur, appelez le service des incendies.
  
- L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

**Installation and servicing instructions**  
**Notice d'installation et d'entretien**



## Flue Options

1. The boiler can be fitted with flue systems as illustrated.
2. The standard flue is suitable only for horizontal applications.
3. Maximum permissible equivalent flue lengths are:

Concentric and vertical flue = 10 m / 32.80 ft

4. Any additional "in line" bends in the flue system must be taken into consideration.  
Their equivalent lengths are:  
Concentric Pipes:

45° bend	0.5 m / 1.64 ft
90° bend	1.0 m / 3.28 ft

The elbow supplied with the standard horizontal flue is not included in any equivalent length calculations

5. The illustrations opposite show examples of maximum equivalent lengths.
6. Instructions for guidance and fitting are included in each kit.

## Options pour l'évacuation des fumées

1. La chaudière peut être équipée des options d'évacuation des fumées illustrées ci-contre.
2. Le conduit standard ne convient que pour les applications horizontales.
3. Les longueurs équivalentes maximales admises pour le conduit des fumées sont :

Conduits concentriques / verticaux = 10 m / 32.80 ft

4. Il faut prendre en compte les coudes éventuellement montés "en ligne" dans le système d'évacuation des fumées. Leurs longueurs équivalentes sont :  
Conduits concentriques :

Coude de 45°	0,5 mètre / 1.64 ft
Coude de 90°	1,0 mètre / 3.28 ft

Le coude fourni avec le conduit des fumées horizontal standard n'est pas pris en compte dans les calculs des longueurs équivalentes.

5. Les figures ci-contre donnent des exemples de longueurs équivalentes maximales.
6. Les instructions de montage sont incluses dans chaque kit.

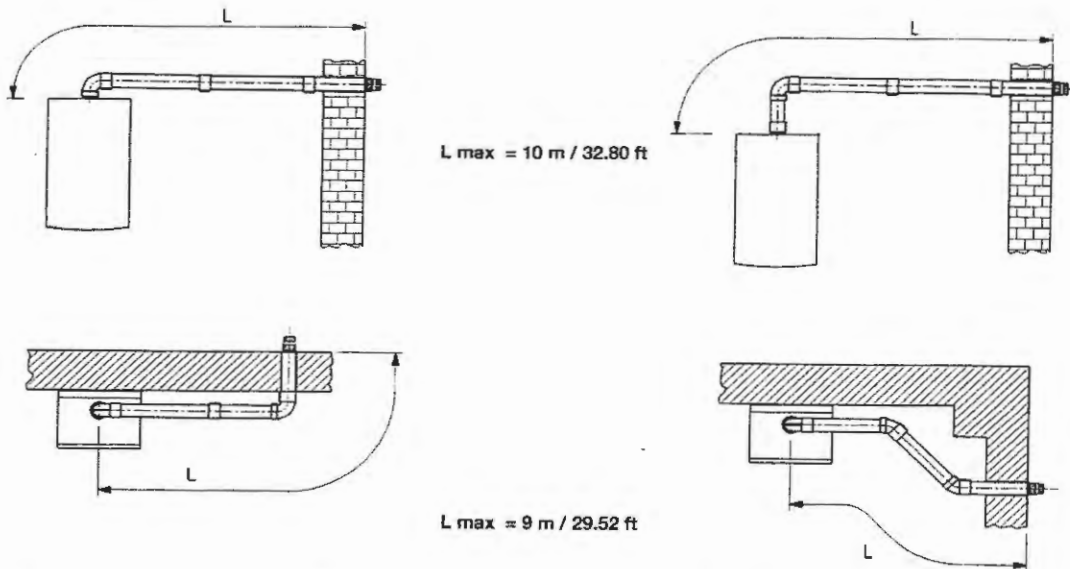
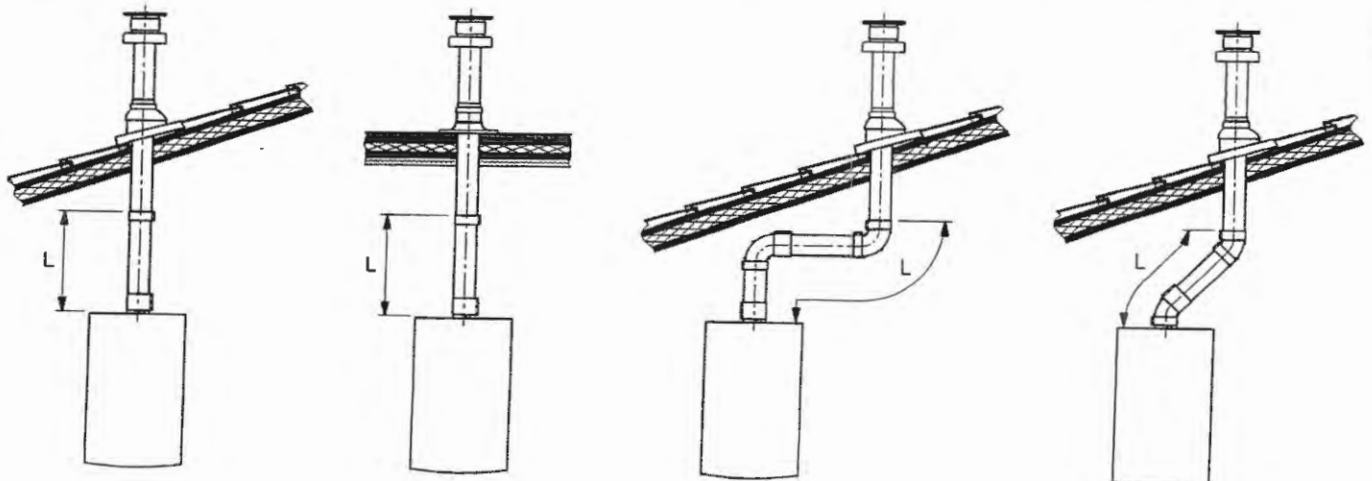


Fig. 5





### 4.3 TWO PIPE SYSTEM

This type of ducting allows to disengage exhaust flue gases both outside the building and into single flue ducts. Comburant air may be drawn in at a different site from where the flue terminal is located.

The splitting kit consists of a flue duct adaptor (100/80) and of an air duct adaptor; the latter may be placed either on the left or on the right of the flue terminal according to installation requirements.

For the air duct adaptor fit the screws and seals previously removed from the cap.

## WARNING

All parts of the exhaust flue duct must be at least 1 in / 25.4 mm from any combustible materials or zero mm to combustibles if mylar sleeve is used.

### 4.3 CONDUITS SÉPARÉS

Ces types de conduits permettent d'utiliser des conduits séparés l'évacuation des gaz brûlés et des fumées à l'extérieur du bâtiment. L'évacuation de l'air comburant peut ainsi être séparée du terminal d'évacuation des fumées.

Le kit de séparation contient un adaptateur (100/80) pour le conduit des fumées et un deuxième adaptateur pour le conduit d'air ; ce dernier peut être placé sur la gauche ou sur la droite du terminal, en fonction des besoins de l'installation.

Pour l'adaptateur du conduit d'air, utiliser les vis et les joints précédemment retirés de l'embout.

## ADVERTISSEMENT

Toute partie de la conduite de décharge de la buse doit être placée moins à 1 in / 25.4 mm de tout matériel combustible ou zéro mm matériel combustible s'il est utilisé a manchon en mylar.

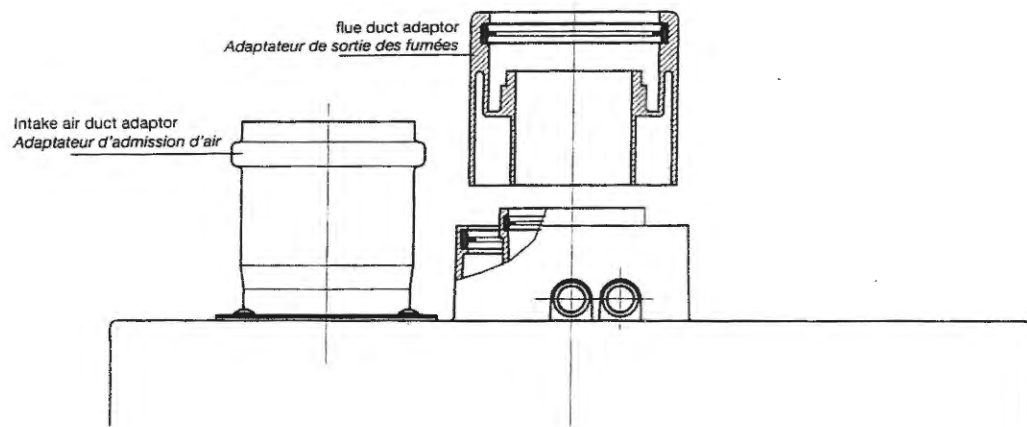


Fig. 7

The 90° bend allows to connect the boiler to flue-air ducting regardless of direction as it can be rotated by 360°. It can moreover be used as a supplementary bend to be coupled with the duct or with a 45° bend.

Le coude à 90° permet de raccorder les conduits des fumées et de la chaudière indépendamment de leur orientation puisqu'il peut tourner sur 360°. Il peut également être utilisé comme coude supplémentaire raccordant directement au conduit ou à un coude de 45°.

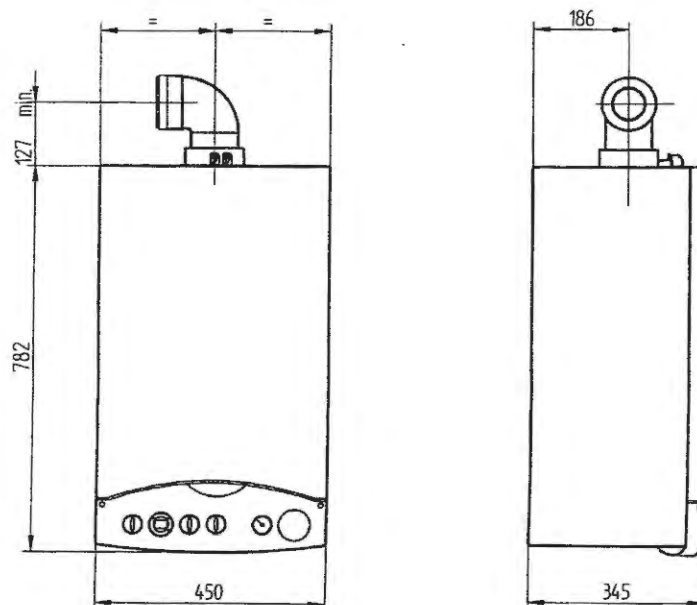


Fig. 8



## WARNING

Ensure a minimum downward slope of 1 cm / 0.39 in toward the boiler per each metre (3.28 ft) of duct length

In the event of installation of the condensate collection kit, the angle of the drain duct must be directed towards the boiler.

## AVERTISSEMENT

Le conduit doit descendre vers la chaudière avec une inclinaison d'au moins 1 cm / 0.39 in par mètre linéaire (3.28 ft).

En cas d'installation du kit de récupération des condensats, l'angle du conduit doit être dirigé vers la chaudière.

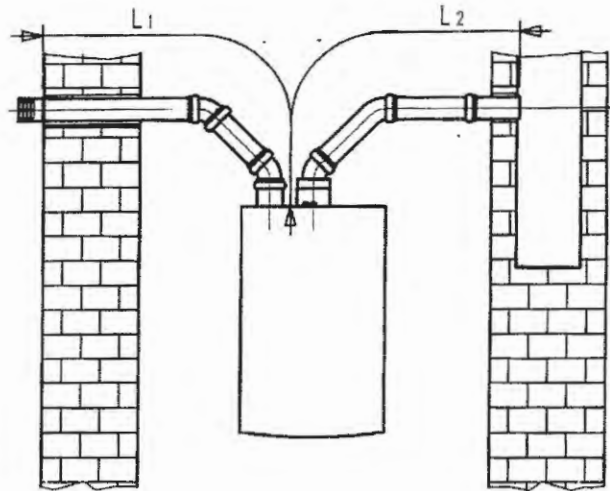
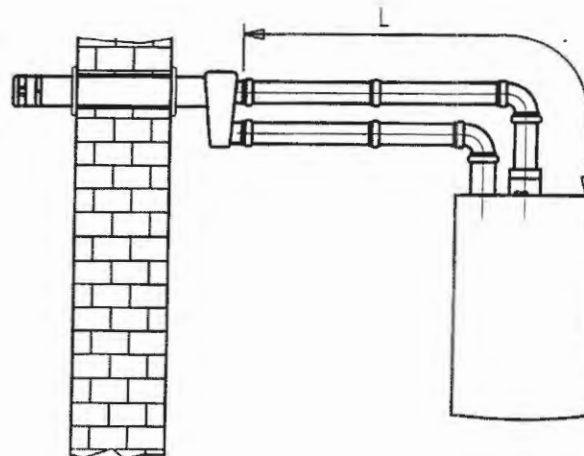


Fig. 9

(L1 + L2) max = 60 m / 196.80 ft  
L1 max = 15 m / 49.20 ft

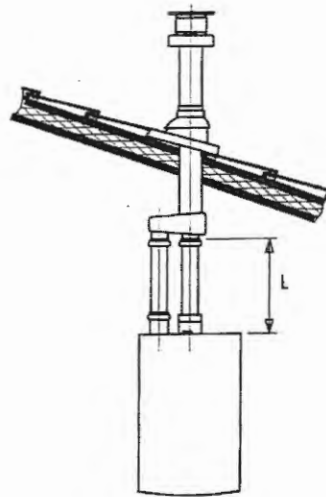
The maximum length of the suction duct (L1) must be 15 m / 49.20 ft.

La longueur maximum du conduit d'aspiration (L1) est de 15 m / 49.20 ft

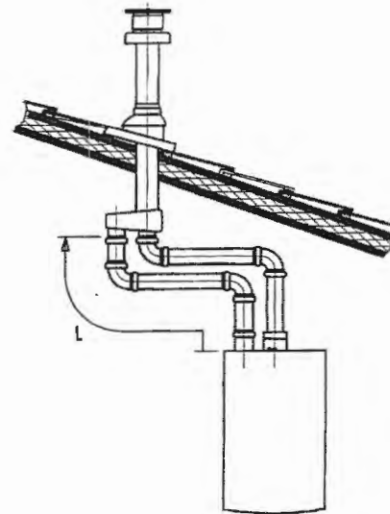


L max = 15 m / 49.20 ft

Fig. 10



L max = 15 m / 49.20 ft



L max = 14 m / 45.92 ft

Fig. 11

#### 4.4 APPROVED VENTING MATERIALS

We recommend that the HT be vented with the manufactures venting material. This can be with either coaxial venting or with the two pipe rigid or flexible vent system.

To vent the HT with ABS/PVC vent pipe there are a few things that have to be taken into consideration.

Use *only* materials listed below for vent pipe, intake air pipe and fittings. Failure to comply could result in personal injury, death or property damage and could void the boiler warranty. Installations must comply with local code requirements and with U.S. ANSI Z223.1 or Canada B149.1 or B149.2

## WARNING

All venting must be properly supported. The HT series of boilers are not intended to support any type of vent system whatsoever. All piping, glue, solvents, cleaners, fittings and components must conform to ASTM and ANSI standards.

**All vent pipe and combustion air pipe and fittings must comply with the following:**

ABS	schedule 40	Materials used in the U.S. must comply with
PVC	schedule 40	the following relevant standards. ANSI/ASTM
CPVC	schedule 40	D1785, ANSI/ASTM D2661, ANSI/ASTM F441.
		<i>In Canada, CSA or IBC certified only.</i>

#### 4.4 MATÉRIAUX AUTORISÉS POUR L'ÉVACUATION D. FUMÉE

Nous conseillons d'évacuer la fumée de la HT à l'aide d'un système fourni par le constructeur, qui peut être un conduit coaxial ou un système d'évacuation comprenant deux conduits rigides ou souples.

Plusieurs facteurs doivent être pris en compte pour l'évacuation de la HT avec des conduits en ABS/PVC.

Le conduit d'évacuation, le conduit d'arrivée d'air et les raccords doivent exclusivement être fabriqués dans l'un des matériaux indiqués ci-dessous. Le non-respect de cette consigne pourrait être la cause d'accidents corporels graves, voire mortels, et/ou de dommages matériels et pourrait annuler la garantie de la chaudière. Les installations doivent être conformes aux normes et réglementations en vigueur et normes ANSI Z223.1 des États-Unis ou encore B149.1 ou B149.2 au Canada.

## ADVERTISSEMENT

Tous les composants d'admission et d'évacuation des produits de combustion des chaudières de la série HT doivent être appropriés. Il est *interdit* d'installer des éléments différents de ceux prescrits. Les colles, les adhésifs, les solvants pour le nettoyage, les accessoires et les dispositifs doivent être conformes aux normes ASTM et ANSI.

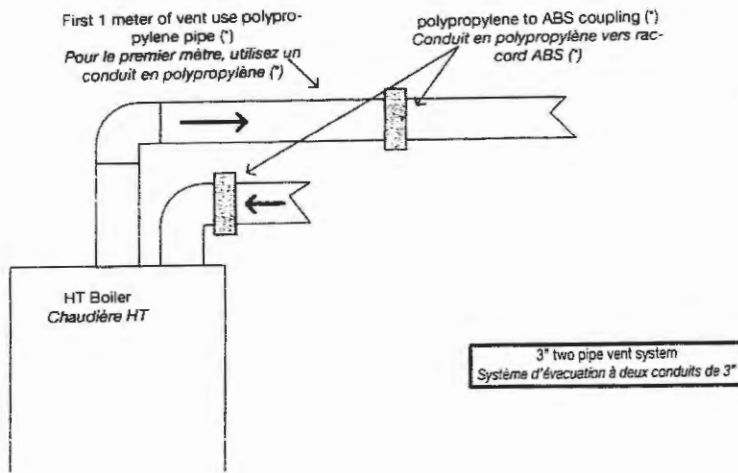
**Tous les conduits d'évacuation, les conduits d'arrivée d'air et les raccords doivent remplir les conditions suivantes:**

ABS	classe 40	Les matériaux utilisés aux États-Unis doivent être
PVC	classe 40	conformes aux normes ANSI/ASTM D1785, ANSI/
CPVC	classe 40	ASTM D2661, ANSI/ASTM F441. Pour le Canada,
		les matériaux utilisés doivent être certifiés CSA ou

# WARNING

**DO NOT USE CELLULAR CORE PIPE  
ONLY 3" PIPES ARE PERMITTED**

When using venting material other than the boiler's manufacturer venting, note the correct installation procedure: **A total of 1 meter (39") of straight exhaust vent must be used before transition to ABS/PVC vent material.**



# ADVERTISSEMENT

**NE PAS UTILISER DE CONDUITS À ÂME ALVÉOLAIRE.  
SEULS LES CONDUITS DE 3" SONT ADMIS**

Si vous utilisez un système d'évacuation de la fumée autre que ceux-ci fournis par le constructeur de l'appareil, suivez les indications du schéma ci-dessous : il faut installer un mètre (39") de conduit droit avant de passer à l'ABS/PVC.

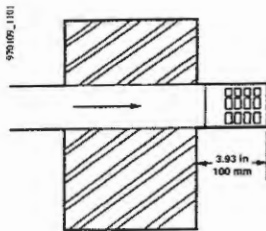
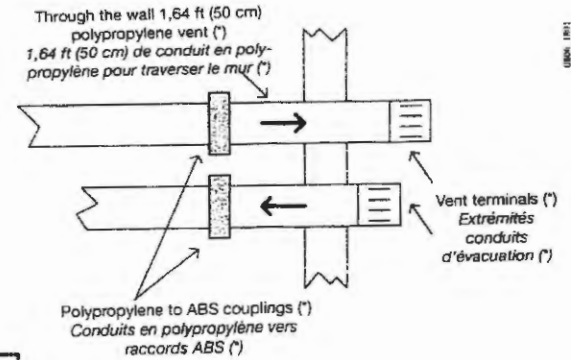


Fig. a

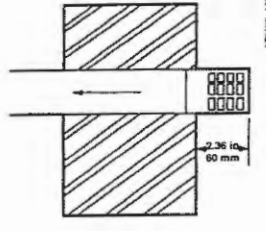


Fig. b

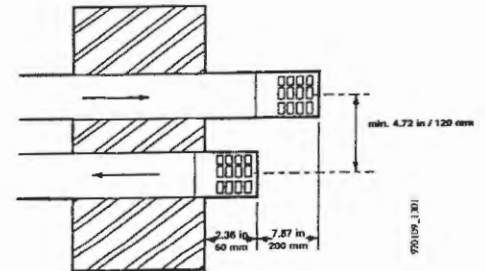


Fig. c

(\*) accessories supplied by the boiler's manufacturer  
When using ABS/PVC elbows, use **only long radius fittings.**

(\*) accessoires fournis par le constructeur de la chaudière  
Si vous utilisez des coudes en ABS/PVC, utilisez **uniquement des raccords de grand rayon**

# WARNING

ABS/PVC venting is no longer approved to be used in Canada

## 4.5 FAN RPM UPDATING DEPEND OF PIPES LENGHT

To ensure the correct rated heat input to the maximum and minimum heat input, it is necessary to update the speed (rpm) of the fan, it depends on the length of the pipes, in accordance with the installation of flue and air pipes as indicated in the tables below. The factory-set value is referred to the minimum length of flue pipe (0÷3 m / 0÷9,84 ft for concentric, 0÷20 m / 0÷65,6 ft for twin). To carry such updating, changing the speed of the fan (rpm) at the maximum and minimum heat input.

# AVIS

le conduites fumées en ABS/PVC ne sont plus approuvés depuis longtemps pour être utilisé en Canada.

## 4.5 MODIFICATION DU RÉGIME (TR/MIN) DU VENTILATEUR EN FONCTION DE LA LONGUEUR DES CONDUITS D'ÉVACUATION

Pour obtenir la même puissance thermique aussi bien au régime maxi que mini de la chaudière, il faut régler la vitesse (tr/min) du ventilateur en fonction de la longueur des conduits d'évacuation, en tenant compte du type d'installation comme l'indiquent les tableaux ci-dessous. La valeur programmée à l'usine correspond à la longueur minimum nécessaire (0÷3 m / 0÷9,84 ft pour conduit concentrique et 0÷20 m / 0÷65,6 ft pour conduit séparés). Pour procéder à ce réglage en modifiant le



# CITY OF PORTLAND, MAINE

Department of Building Inspections

## Original Receipt

11.15 2011

Received from Mico Fuel

Location of Work 76 Walton

Cost of Construction \$ \_\_\_\_\_ Building Fee: \_\_\_\_\_

Permit Fee \$ \_\_\_\_\_ Site Fee: \_\_\_\_\_

Certificate of Occupancy Fee: \_\_\_\_\_

Total: 60

Building (IL)  Plumbing (I5) \_\_\_\_\_ Electrical (I2) \_\_\_\_\_ Site Plan (U2) \_\_\_\_\_

Other \_\_\_\_\_

CBL: 138-D-4

Check #: CC Total Collected \$ 60

**No work is to be started until permit issued.  
Please keep original receipt for your records.**

Taken by: [Signature]

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