

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 10-0421	Issue Date:	CBL: 036 F013001
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Location of Construction: 210 High St	Owner Name: Op Property Llc	Owner Address: Po Box 3836	Phone:
Business Name:	Contractor Name: Nice Fuel Company	Contractor Address: P.O. Box 1939 Portland	Phone: 2077613835
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Past Use: Multi Family / 6 Units	Proposed Use: Multi Family / Install natural gas Baxi Luna HT133 heating unit in the basement.	Permit Fee: \$100.00	Cost of Work: \$7,500.00	CEO District: 2
Proposed Project Description: Install natural gas Baxi Luna HT133 heating unit in the basement.		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: Type:	
		Signature:	Signature:	
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: gg	Date Applied For: 04/27/2010	Zoning Approval		
<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	Zoning Appeal	Historic Preservation
		<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"/>	<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	<input 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:	Date:	Date:

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

Location of Construction: 210 High St	Owner Name: Op Property Llc	Owner Address: Po Box 3836	Phone:
Business Name:	Contractor Name: Nice Fuel Company	Contractor Address: P.O. Box 1939 Portland	Phone 2077613835
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 04/29/2010
Note: **Ok to Issue:**

- 1) Separate permits shall be required for future decks, sheds, pools, and/or garages.
- 2) This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals.
- 3) This property shall remain a six family dwelling. Any change of use shall require a separate permit application for review and approval.
- 4) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 05/11/2010
Note: **Ok to Issue:**

- 1) The installation must comply with the State of Maine Gas Regulations.
- 2) Installation shall comply with 2003 International Mechanical Code

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Capt Keith Gautreau **Approval Date:** 05/05/2010
Note: **Ok to Issue:**

- 1) Install shall comply with all manufacture's specifications.
- 2) Install shall comply with NFPA 54.
A compliance letter is required

Comments:

5/10/2010-jmb: Left vmsg with answering service, need detail on venting, not filled out on application
5/11/2010-jmb: Tim called to confirm this is a side wall concentric direct vent, ok to issue

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

City of Portland, Maine - Building or Use Permit

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

Permit No: 10-0421	Date Applied For: 04/27/2010	CBL: 036 F013001
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Location of Construction: 210 High St	Owner Name: Op Property Llc	Owner Address: Po Box 3836	Phone:
Business Name:	Contractor Name: Nice Fuel Company	Contractor Address: P.O. Box 1939 Portland	Phone (207) 761-3835
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Multi Family / Install natural gas Baxi Luna HT133 heating unit in the basement.	Proposed Project Description: Install natural gas Baxi Luna HT133 heating unit in the basement.
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Dept: Zoning	Status: Approved with Conditions	Reviewer: Marge Schmuckal	Approval Date: 04/29/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
<ol style="list-style-type: none"> 1) Separate permits shall be required for future decks, sheds, pools, and/or garages. 2) This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals. 3) This property shall remain a six family dwelling. Any change of use shall require a separate permit application for review and approval. 4) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work. 			

Dept: Building	Status: Approved with Conditions	Reviewer: Jeanine Bourke	Approval Date: 05/11/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
<ol style="list-style-type: none"> 1) The installation must comply with the State of Maine Gas Regulations. 2) Installation shall comply with 2003 International Mechanical Code 			

Dept: Fire	Status: Approved with Conditions	Reviewer: Capt Keith Gautreau	Approval Date: 05/05/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
<ol style="list-style-type: none"> 1) Install shall comply with all manufacture's specifications. 2) Install shall comply with NFPA 54. A compliance letter is required 			

Comments: 5/10/2010-jmb: Left vcmmsg with answering service, need detail on venting, not filled out on application 5/11/2010-jmb: Tim called to confirm this is a side wall concentric direct vent, ok to issue
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BUILDING PERMIT INSPECTION PROCEDURES

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

or email: 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 Inspection 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 with construction.**

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

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



10074 FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



036 F 013 multi family 6 units

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 208 High St Use of Building Residential Date 4-16-10
 Name and address of owner of appliance WARREN OGDEN
Oil Fuel XX Mail
 Installer's name and address NICE FUEL CO PO. BOX 1938 PORTLAND ME 04101
322 PRESUMPSOT ST PORTLAND 04103 Telephone 761-3835

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: BIAXI LUNA HT 133
 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 2431
- Other _____

Type of Chimney:

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

Type of Fuel Tank

- Oil
 - Gas
- NATURAL GAS

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 7,500
 Permit Fee: \$ 100.00

Approved

Fire: _____
 Ele.: _____
 Bldg.: JMB

Approved with Conditions

- See attached letter or requirement

Signature of Installer _____

Inspector's Signature _____ Date Approved _____

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



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

_____ April 27 2010

Received from Ed Turner

Location of Work 208 High St

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: _____

Building (IL) _____ Plumbing (IS) _____ Electrical (I2) _____ Site Plan (U2) _____

Other NVAC

CBL: 036 F013-014

Check #: Visa Total Collected \$ 100.00

**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

4.6 CONNECT THE MAINS SUPPLY

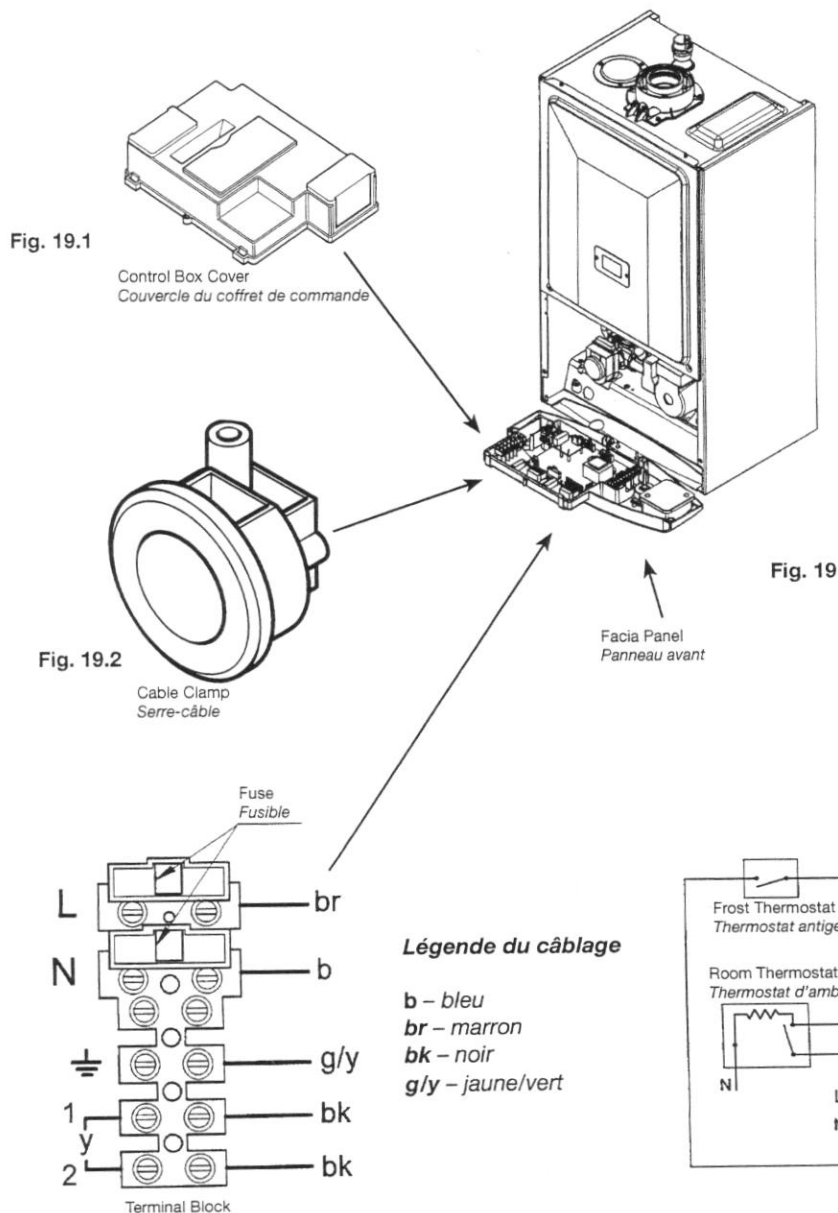
To connect the mains input cable proceed as follows:-

1. Remove the screws securing the fascia panel and hinge it down
2. Remove the control box cover securing screws. Disengage the barbs on the control box from the cover. Remove the cover (Fig. 19.1).
3. Slacken the cable clamp on the LH side of the boiler chassis (Fig. 19.2). Insert the cable through the clamp and route it to the terminal block.
4. Slacken the screws in the terminal block, connect the input cable, and tighten the screws.
5. If an external control is to be connected it can be done at this point. Run the input cable from the external control through the second cable clamp on the boiler chassis. Refer to the instructions supplied with the control.
6. Remove the link between terminal 1 and 2 and connect the cables from the external control (Fig. 19.3).

4.6 CONNEXIONS ELECTRIQUES

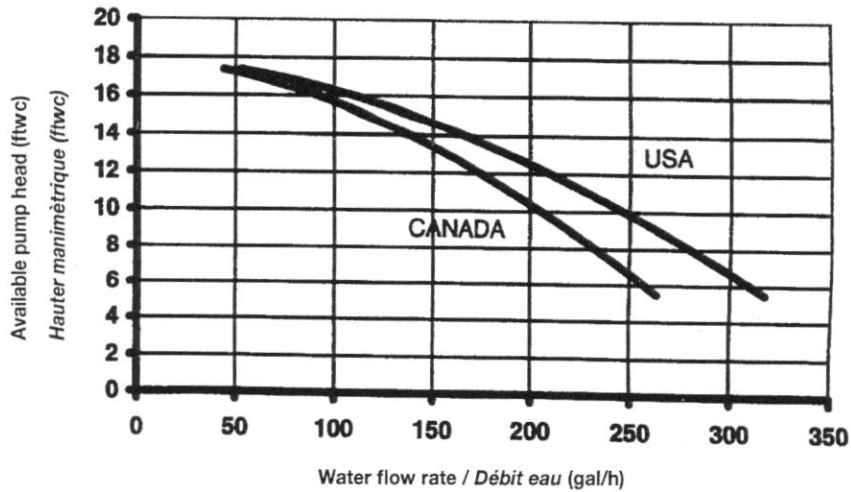
Pour raccorder le câble d'alimentation, procéder de la façon suivante :-

1. Enlevez les vis de fixation du panneau avant et ouvrir le panneau
2. Retirer les vis du couvercle du coffret de commande. Libérer le couvercle du coffret de commande. Ôter le couvercle (Fig.19.1).
3. Desserrer le serre-câble du côté gauche de la chaudière (Fig. 19.2). Enfiler le câble dans le serre-câble et l'acheminer dans le bornier.
4. Desserrer les vis dans le bornier, brancher le câble d'alimentation et resserrer les vis.
5. Si une commande externe est prévue, elle peut être connectée à ce stade. Enfiler le câble d'alimentation de la commande externe dans le deuxième serre-câble sur le châssis de la chaudière. Se reporter à la notice d'instructions fournie avec la commande.
6. Enlever l'élément de liaison entre les bornes 1 et 2 et brancher les câbles sortant de la commande externe (Fig.19.3).



2.7 AVAILABLE PUMP HEAD FOR CENTRAL HEATING

Only the third speed of the pump has to be used.



Graph 1
Graphique 1

2.7 HAUTEUR D'ELEVATION DISPONIBLE POUR LE CHAUFFAGE CENTRAL

Seulement la troisième vitesse de la pompe doit être utilisée

2.8 SYSTEM VOLUME

Based on 30 p.s.i. / 2.11 bar safety valve setting

Vessel charge and initial system pressure	bar	0.5	1.0	1.5
	psi	7.25	14.5	21.7
Total water content of system using 2.2 gal / 10 l capacity expansion vessel supplied with appliance	Litre	120	91	64
	(Can) gal	26.4	20	14
	(USA) gal	31.7	24	16.9
For systems having a larger capacity MULTIPLY the TOTAL system capacity in litres (gallons) by the factor to obtain the TOTAL MINIMUM expansion vessel capacity required in litres (gallons)		0.0833	0.109	0.156

Note: When the boiler is operating at maximum operating temperature, providing heating with all radiators operating, the pressure gauge should not indicate more than 25.5 p.s.i. / 1.8 bar. If the reading exceeds this figure an additional expansion vessel is required.

2.8 VOLUME DU CIRCUIT

Basé sur le tarage de la soupape de sécurité à 30 p.s.i. / 2,11 bar

Pression initiale du circuit et de remplissage du vase	bar	0.5	1.0	1.5
	psi	7.25	14.5	21.7
Contenance totale en eau du circuit équipé d'un vase d'expansion de 2,2 gal / 10 l de capacité, livré avec l'appareil	Litre	120	91	64
	(Can) gal	26.4	20	14
	(USA) gal	31.7	24	16.9
Pour les circuits de capacité supérieure, MULTIPLIEZ la contenance totale du circuit en litres par le facteur pour obtenir la contenance TOTALE MINIMALE nécessaire du vase d'expansion.		0.0833	0.109	0.156

Remarque: Quand la chaudière est en service à la température maximale et fournit du chauffage à tous les radiateurs, l'indicateur de pression ne doit pas afficher plus de 25,5 p.s.i. / 1,8 bar. Si la valeur affichée est supérieure, il est nécessaire d'ajouter un autre vase d'expansion.

2.9 BOILER SCHEMATIC

Operating Mode (Fig. 1)

1. With a demand for heating, the pump circulates water through the primary circuit.
2. The main burner ignites at low rate, then the air/gas system controls the gas rate to maintain the heating temperature measured by the temperature sensor.
3. When the flow temperature exceeds the setting temperature, a 3 minute delay occurs before the burner relights automatically (anti-cycling). The pump continues to run during this period.
4. When the demand is satisfied the burner is extinguished and the pump continues to run for a period of 3 minutes (Pump Overrun).

2.9 SCHÉMA DE FONCTIONNEMENT DE LA CHAUDIÈRE

Mode chauffage central (Fig.1)

1. À la demande de chauffage, le circulateur refoule l'eau dans le circuit principal.
2. Le brûleur principal s'allume à faible débit puis le système air/gaz règle le débit du gaz pour maintenir la température de chauffage mesurée par la sonde.
3. Lorsque la température dépasse la valeur d'étalonnage, le brûleur se rallume automatiquement après un retard de 3 minutes (anti-cycling). Le circulateur continue à tourner pendant cette période.
4. Lorsque la demande de chauffage a été satisfaite, le brûleur s'éteint et le circulateur continue à tourner pendant 3 minutes (marche post-fonctionnement).

SEALED CHAMBER
CHAMBRE ÉTANCHE

0507_0008_C01_11131

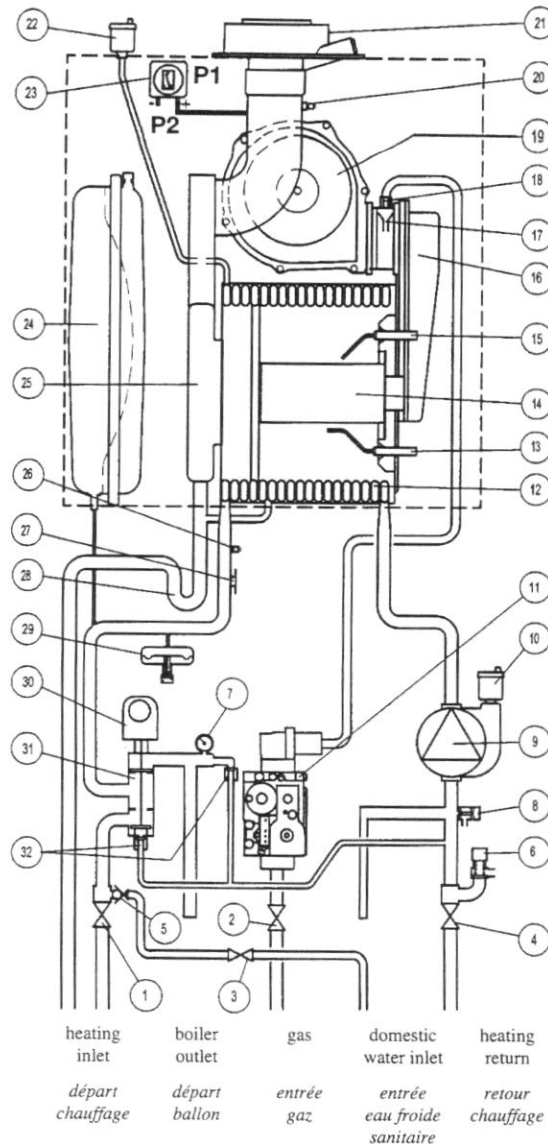


Fig. 1

Key:

- 1 heating delivery cock
- 2 gas service cock
- 3 cold water inlet cock
- 4 heating return cock
- 5 non return valve
- 6 pressure relief valve
- 7 manometer
- 8 boiler drain point
- 9 pump and air separator
- 10 automatic air vent
- 11 gas valve
- 12 flue-water exchanger
- 13 flame detector electrode
- 14 burner
- 15 ignition electrode
- 16 air/gas mixture header
- 17 mixer with venturi
- 18 gas diaphragm
- 19 fan
- 20 flue thermostat
- 21 coaxial fitting
- 22 automatic air vent
- 23 air pressure switch
- 24 expansion vessel
- 25 flue header
- 26 central heating NTC sensor
- 27 105°C overheat thermostat
- 28 siphon
- 29 water pressure switch
- 30 3-way valve motor
- 31 three way valve
- 32 automatic bypass

Légende:

- 1 robinet départ chauffage
- 2 robinet gaz
- 3 robinet arrivée eau
- 4 robinet retour chauffage
- 5 soupape de non-retour
- 6 soupape de sécurité
- 7 manomètre
- 8 robinet de vidange chaudière
- 9 pompe avec séparateur d'air
- 10 soupape automatique de purge air
- 11 vanne gaz
- 12 échangeur eau-fumées
- 13 électrode de détection de flamme
- 14 brûleur
- 15 électrode d'allumage
- 16 collecteur mélange air/gaz
- 17 mélangeur avec venturi
- 18 diaphragme gaz
- 19 ventilateur
- 20 capteur fumées
- 21 raccord coaxial
- 22 soupape automatique purge air
- 23 pressostat air
- 24 vase expansion
- 25 collecteur fumées
- 26 sonde CTN chauffage
- 27 thermostat de sécurité 105°C
- 28 siphon
- 29 pressostat hydraulique
- 30 moteur vanne à trois voies
- 31 vanne trois voies
- 32 by-pass automatique

2. Technical data

2.1 PERFORMANCE

Central Heating		MAX		MIN
		0÷2000 Ft 0÷610 m	2000÷4500 Ft 610÷1370 m	
Heat Input (Gross)	Btu/h	126 376	120 358	37 192
	kW	37.0	35.3	10.9
Heat Output (modulating)	Btu/h	112 601	107 239	32 804
	kW	33.0	31.4	9.6
CO ₂ Setting natural gas (A)	%	8.7	8.7	8.4
Gas Rate natural gas (A)	ft ³ /h	124.5	118.6	36.6
	m ³ /h	3.53	3.36	1.04
CO ₂ Setting LP gas (E)	%	10.0	10.0	9.8
Gas Rate LP gas (E)	ft ³ /h	48.1	45.8	14.2
	m ³ /h	1.36	1.30	0.40
CH Water Temp. (Approx.)	°F	176		
	°C	80		

2.2 SYSTEM

Central Heating (Sealed System)	
Max System Pressure	30 p.s.i. / 2.11 bar
Min System Pressure	7.25 p.s.i. / 0.5 bar
Max System temperature	176°F / 80°C
Pressure Relief Valve Setting	30 p.s.i. / 2.11 bar
Expansion Vessel Size (pre-charge press.)	2.2 Gal / 10 l at 11.6 p.s.i. / 0.8 bar
Flow Connection	3/4" / 22.2 mm
Return Connection	3/4" / 22.2 mm
Relief Valve Connection	3/4" / 22.2 mm
Recommended System Pressure (cold)	21.7 p.s.i. / 1.5 bar

2.3 COMPONENTS

Burner	Stainless Steel
Main Heat exchanger	Stainless Steel
Injector natural gas (A)	12.0 mm
Injector LPG gas (E)	12.0 mm
Pump	Grundfos UPS 15-62/BX AO
Fan	MVL RG 128
Gas Valve	SIT 848 SIGMA
Diverter Valve	Baxi

2. Données Techniques

2.1 PERFORMANCE

Chauffage central		MAX		MIN
		0÷2000 Ft 0÷610 m	2000÷4500 Ft 610÷1370 m	
Débit calorifique (pcs)	Btu/h	126 376	120 358	37 192
	kW	37.0	35.3	10.9
Puissance utile (modulation)	Btu/h	112 601	107 239	32 804
	kW	33.0	31.4	9.6
Réglage CO ₂ Gaz naturel (A)	%	8.7	8.7	8.4
Débit de gaz Gaz naturel (A)	ft ³ /h	124.5	118.6	36.6
	m ³ /h	3.53	3.36	1.04
Réglage CO ₂ Gaz LP (E)	%	10.0	10.0	9.8
Débit de gaz Gaz LP (E)	ft ³ /h	48.1	45.8	14.2
	m ³ /h	1.36	1.30	0.40
Temp. de l'eau circuit chauffage (approx.)	°F	176		
	°C	80		

2.2 CIRCUIT

Chauffage central (circuit étanche)	
Pression maximale du circuit	30 p.s.i. / 2.11 bar
Pression minimale du circuit	7.25 p.s.i. / 0.5 bar
Température maximale du circuit	176°F / 80°C
Tarage soupape de pression	30 p.s.i. / 2.11 bar
Dimensions du vase d'expansion (pression avant le remplissage)	2.2 Gal / 10 l à 11.6 p.s.i. / 0.8 bar
Connexion départ	3/4" / 22.2 mm
Connexion retour	3/4" / 22.2 mm
Connexion soupape de pression	3/4" / 22.2 mm
Pression du circuit recommandée (à froid)	21.7 p.s.i. / 1.5 bar

2.3 PARTIES COMPOSANTES

Brûleur	acier inoxydable
Echangeur principal de chaleur	acier inoxydable
Injecteur gaz naturel (A)	12.0 mm
Injecteur gaz LPG (E)	12.0 mm
Pompe	Grundfos UPS 15-62/BX AO
Ventilateur	MVL RG 128
Vanne à gaz	SIT 848 SIGMA
Vanne à deux voies	Baxi

2.4 INSTALLATION

Minimum Clearances for Servicing	
Top	8.66 in / 220 mm
Bottom	9.84 in / 250 mm
Sides	1.77 in / 45 mm
Front	17.71 in / 450 mm
Flue Terminal Size Concentric System	3.93 in / 100 mm
Flue Terminal Size 2-Pipe Flue System	3.14 in / 80 mm
Flue Terminal Protruding	4.52 in / 115 mm
Lift Weight	1b 101.41 / kg 46

2.5 GENERAL

Dimensions	Height	30.04 in / 763 mm
	Width	17.71 in / 450 mm
	Depth	13.58 in / 345 mm
Gas Connection		3/4"
Primary Water Content		(Can) 0.79 Gal / 3.6 l (USA) 0.95 Gal / 3.6 l
Air Duct Diameter		3.93 in / 100 mm
Flue Duct Diameter		2.36 in / 60 mm

2.6 ELECTRICAL

Supply	120 V 60 Hz
Power Consumption	5 050 Btu /h - 148 W
Internal Fuse	F 2 A
Electrode Spark Gap	3.5 to 4.5 mm

2.4 INSTALLATION

Espaces minimaux pour l'entretien	
en haut	8.66 in / 220 mm
en bas	9.84 in / 250 mm
côtés	1.77 in / 45 mm
devant	17.71 in / 450 mm
Dimensions terminal buse fumées concentrique	3.93 in / 100 mm
Dimensions terminal buse fumées à 2 conduites	3.14 in / 80 mm
Surplomb du terminal buse fumées	4.52 in / 115 mm
Poids de soulèvement	1b 101.41 / kg 46

2.5 DONNÉES GÉNÉRALES

Dimensions	Hauteur	30.04 in / 763 mm
	Largeur	17.71 in / 450 mm
	Profondeur	13.58 in / 345 mm
Connexion gaz		3/4"
Contenance d'eau primaire (USA) 0.95 Gal / 3.6 l		(Can) 0.79 Gal / 3.6 l
Diamètre conduit d'air		3.93 in / 100 mm
Diamètre buse fumées		2.36 in / 60 mm

2.6 DONNÉES ÉLECTRIQUES

Alimentation	120 V 60 Hz
Consommation de courant	5 050 Btu /h - 148 W
Fusible interne	F 2 A
Ecartement pointes électrodes	de 3.5 à 4.5 mm