

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 10-1209	Issue Date:	CBL: 040 B032001
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Location of Construction: 45 DANFORTH ST	Owner Name: TREEHOUSE LLC	Owner Address: PO BOX 491	Phone:
Business Name:	Contractor Name: Mainely Plumbing & Heating	Contractor Address: 674 Main Street Gorham	Phone: 2078544969
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: B-3

Past Use: Commercial Minor Use <i>Restaurant</i>	Proposed Use: <i>Restaurant</i> Commercial - Minor Use - Install a NY Thermal Gas unit in basement	Permit Fee: \$100.00	Cost of Work: \$7,500.00	CEO District: 1
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>* See Conditions</i>	INSPECTION: Use Group: <i>A-2</i> Type: <i>HVAC</i> <i>FMC-2003</i>	

Proposed Project Description: Install a NY Thermal Gas unit in basement	Signature: <i>(Signature)</i>	Signature: <i>(Signature)</i> 10/18/10
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: Idobson	Date Applied For: 09/29/2010	Zoning Approval
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- 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>9/29/10</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:
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PERMIT ISSUED

OCT 18 2010

City of Portland

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: 10-1209	Date Applied For: 09/29/2010	CBL: 040 B032001
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Location of Construction: 45 DANFORTH ST	Owner Name: TREEHOUSE LLC	Owner Address: PO BOX 491	Phone:
Business Name:	Contractor Name: Mainely Plumbing & Heating	Contractor Address: 674 Main Street Gorham	Phone (207) 854-4969
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Commercial - Restaurant - Install a NY Thermal Gas unit in basement	Proposed Project Description: Install a NY Thermal Gas unit in basement
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 09/29/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Building	Status: Approved with Conditions	Reviewer: Jeanine Bourke	Approval Date: 10/18/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) The appliance and venting shall be installed in accordance with the UL listing and IMC 2003.			
2) The installation must comply with the State of Maine Gas Regulations.			
Dept: Fire	Status: Approved with Conditions	Reviewer: Capt Keith Gautreau	Approval Date: 10/06/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Install shall comply with all manufacture's specifications.			
2) Install shall comply with NFPA 54. A compliance letter is required			

PERMIT ISSUED

OCT 18 2010

City of Portland



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

9.29.20 10

Received from

PLIC Gas

Location of Work

45 Doughty

20' Gas Set

Contract Contribution

40-5.32

Building Fee:

90
215-H25

Inspection Fee

\$

Site Fee:

Certificate of Occupancy Fee:

Total:

190

Building (1)

Plumbing (15)

Electrical (12)

Site Plan (12)

Other

HOAC x2

CBL

Above

Check #:

2832

Total Collected \$

190

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

Taken by:

S.P.

S.P.

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



FILL IN AND SIGN WITH INK

PERMIT ISSUED

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

OCT 18 2010

City of Portland

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 45 Danforth St Use of Building Restaurant Date 8/28/10
Name and address of owner of appliance B.L. O'Brien

Installer's name and address Maine Pls + Htg
624 Main St - Berham, Me - 04038 Telephone 854-4969

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: NY Thermal

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 347
- 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 Natural Gas
Dept. of Building Inspections
City of Portland Maine

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 2,500

Permit Fee: \$ 100

RECEIVED

SEP 29 2010

Approved

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: _____

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

TOP TEN LIST

The Advantages of the

TRINITY

1. Available in both Natural Gas and Propane versions with a modulation system that eliminates additional models.
2. State-of-the-art sealed modulation combustion system with hot surface ignition.
3. Patented 316L stainless condensing heat exchanger provides ultimate efficiencies.
4. All connections are conveniently located for ease of installation.
5. Superior mounting configuration allows wall or floor mounting.
6. Vents easily with conventional ABS, PVC or CPVC plastic piping.
7. The TRINITY has industry-leading modulation rates, which significantly increases comfort while reducing cycling and fuel consumption.
8. The distinctive casing design reduces costly standby losses, while virtually eliminating combustion noises.
9. High-capacity plate heat exchanger on combination models provides ample domestic hot water.
10. The TRINITY is certified, designed and rated to strict CSA, AGA, ASME and CSAus codes.

GENERAL SPECIFICATIONS

	Ts80'	Ti100	Ti150	Ti200
Input Modulation (1000 btu/hr)	16 - 80	15 - 93	25 - 150	25 - 199
Water Connection (NPT)	1"			
Weight (lbs)	70	100	100	125
Max. Pressure (PSI)	145 ²			
Gas Connection (NPT) Vent & Air Size -	1/2"			
Max. Length	3" - 105'		3" - 105' NG, 50' LP	
Dimensions (H x W x D)	28 x 17 x 12"	22.5 x 15.5 x 16.75" ³		22.5 x 15.5 x 18.25"

HEATING SPECIFICATIONS

	Ts80'	Ti100	Ti150	Ti200
DOE Heating Capacity (btu/hr)	73,000	85,000	136,000	182,000
Net I=B=R Rating (btu/hr)	63,000	74,000	118,000	158,000
DOE AFUE (%)	95.1			

DOMESTIC HOT WATER (Combi Version)

	Ti150	Ti200
Inlet - Outlet (NPT) Max.	1/2" - 3/4"	
DWH Pressure Drop (PSI)	1PSI	
Temperature Regulation	Electronic Modulation	
DHW Outputs at 45°F Inlet Water (Usgpm @ Water °F)	4.0 @ 110°F	5.5 @ 110°F
	3.5 @ 120°F	4.8 @ 120°F
	3.1 @ 130°F	4.5 @ 130°F

¹ Validation pending for some specifications

² Water connections are 3/4" on Canadian Ti100 and Ti150s. Outlet connections on Combi units are 3/4"

³ Maximum water pressure equal to 30 PSI for Canadian Ti100 and Ti150s

⁴ Depth equal to 14.75" for Canadian Ti100 and Ti150s.

As NTI continuously strives to improve our products, we reserve the right to make changes without prior notification



DISTRIBUTED BY:

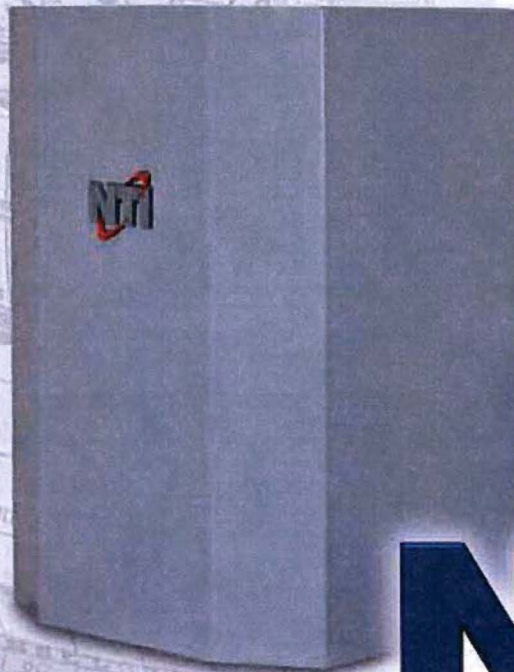
NY THERMAL INC.
 30 Stonegate Drive, Saint John
 New Brunswick E2H 0A4 Canada
 Tel: 506-657-6000
 Toll-free: 800-688-2575
 Fax: 506-432-1135

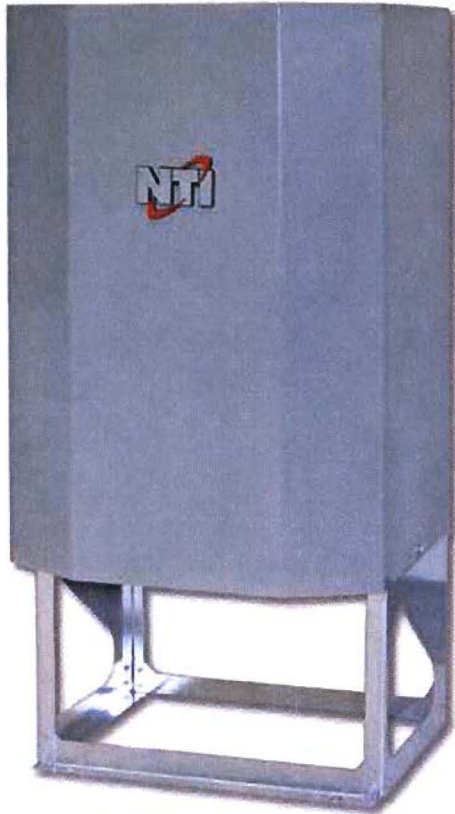
www.nythermal.com

TRINITY *Ti*

95.1% AFUE

*Ultra Efficient
Boiler and
Water Heater*





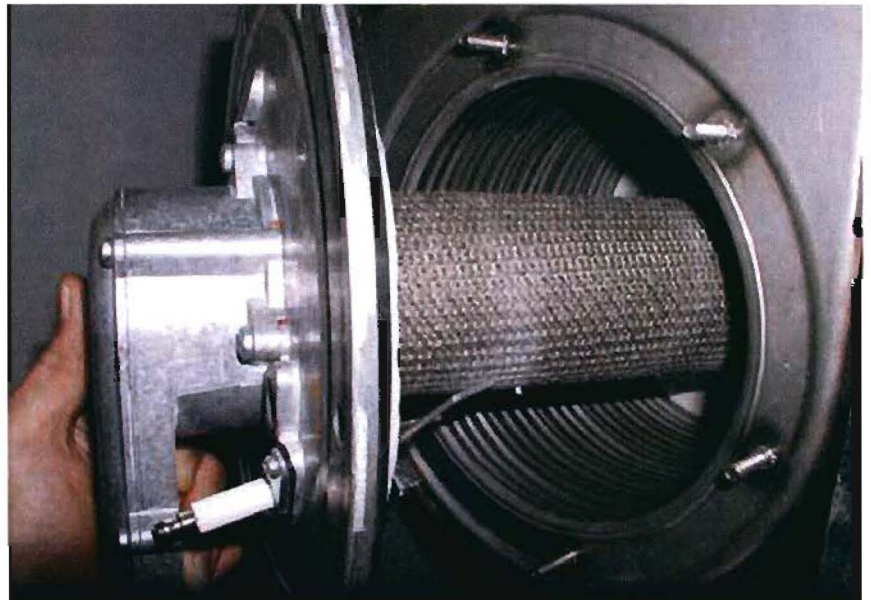
TI-150 with optional floor stand

The NTI Commitment to Service

- Established in 1966 in Sussex, NB, today's NTI remains a privately owned family business with the same original mandate to manufacture top-quality central heating equipment.
- We design our products with easy installation and servicing in mind. The **TRINITY** is pre-assembled and wired, with easy access to key components.
- At our research, development and training laboratory in New Brunswick, engineers constantly strive to improve efficiency and serviceability on all our new and existing products.
- NTI maintains a strong commitment to providing installer leadership and ongoing support through our training programs and technical assistance available to contractors.

Additional Features

- Provided with outdoor sensor for automatic boiler temperature reset
- Control is fully enclosed in impact-resistant enclosure
- Multifunctional LED display system
- Digital set point for unmatched accuracy
- Provides all safety and operational functions
- Operates burner, heating pump, and auxiliary indirect pump or valve
- Pump exerciser routine activates pump for five seconds every 72 hours to prevent seizing
- Internal diagnostic system continuously monitors for errors
- Designed to withstand power dips and spikes



The Trinity uses a stainless burner with a metal fiber coating to produce extremely high modulation rates. This interior view of the combustion chamber illustrates the water tube heat exchanger, which is constructed of 316L stainless steel.

IN THE NTI TRADITION OF QUALITY...

Introducing the all-new, ultra-compact, high-efficiency TRINITY Gas Ti Boiler

When you choose the **TRINITY** Boiler, you choose the ultimate in top-quality, high-efficiency boilers. Count on years of trouble-free, safe and comfortable heat, from North America's hot water heating leader: NTI.



Trinity Combi

Provides instantaneous domestic hot water on demand, with unmatched efficiency.



Great Savings... The superb efficiencies and state-of-the-art combustion systems of the **TRINITY** mean little heat is wasted, less natural gas or propane is used, and homeowners save money.

Lots of Hot Water... The **TRINITY'S** high-capacity heat exchanger coil provides ample hot water for every household need, at very low cost.

Years of Dependability... NTI customers know... our boilers are built to last a lifetime! With an advanced ignition system, and a top-quality heat exchanger, the **TRINITY** represents the highest standard in top-quality boilers.

Environmental... The **TRINITY** meets or exceeds North American energy and emissions regulations. We're doing our part to protect the environment for the future.

The Unparalleled NTI Combustion System

NTI's combustion system produces the highest industry modulation rates, which allows the **TRINITY** to modulate the burner to the exact size required to meet the conditions of the system. The **TRINITY** incorporates an electronic state-of-the-art combustion system to reduce the amount of gas that is injected into the burner to ensure proper combustion throughout the full range of modulation. This system also compensates for extended venting; therefore, adjustments are not required between short and long vent runs. The **TRINITY** is a totally sealed combustion system: all combustion air is drawn from outside, used for combustion and then expelled. This eliminates any need for fresh air intake into the room, thereby decreasing heating costs.

Patented Heat Exchanger

NTI has developed a sophisticated heat exchanger that provides virtually endless hot water, at unheard-of efficiencies. The condenser does not use aluminum but is constructed totally from stainless steel, which is a proven material for condensing appliances.

The **TRINITY** utilizes its modulation combustion system to electronically increase or decrease the flame size, depending upon the required flow and water temperature. As the water is instantaneously heated and regulated, a storage tank is not required, and energy is not lost due to typical tank standby losses. The **TRINITY** can deliver up to 5.5 US gallons of water per minute at a constant temperature of 110°F. The **TRINITY** system automatically gives priority to the domestic hot water system to ensure that all your family's hot water needs are met.