

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 10-0789	Issue Date:	CBL: 371 A016001
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Location of Construction: 45 Lester Dr	Owner Name: Jankowiak Peter J	Owner Address: 45 Lester Dr	Phone:
Business Name:	Contractor Name: Jeff Davis	Contractor Address: 23 Brown Street Apt 302 Westbrook	Phone 2074500784
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R-2

Past Use: Single Family	Proposed Use: Single Family / Install 200 gallon Trinity Ti 150 gas tank in the basement.	Permit Fee: \$60.00	Cost of Work: \$4,000.00	CEO District: 5
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FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <i>N/A</i>	INSPECTION: Use Group: <i>R-3</i> Type: <i>HVAC</i> <i>State Gas Reg's</i>
Signature:	Signature:

Proposed Project Description:
Install 200 gallon Trinity Ti 150 gas tank in the basement.

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: 07/02/2010	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>7/6/10</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: <i>[Signature]</i>	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>[Signature]</i>
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PERMIT ISSUED

JUL - 8 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



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

July 2 2010

Received from 2011 Industrial Development

Location of Work 45 1/2 St. Dr.

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 10.00

Building (IL) Plumbing (I5) _____ Electrical (I2) _____ Site Plan (U2) _____

Other N/A

CBL: 2011 A016

Check #: 50114 Total Collected \$ 10.00

**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

City of Portland, Maine - Building or Use Permit

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Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family / Install 200 gallon Trinity Ti 150 gas tank in the basement.	Proposed Project Description: Install 200 gallon Trinity Ti 150 gas tank in the basement.
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 07/06 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 single 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:** Tammy Munson **Approval Date:** 07/08/2010

Note: **Ok to Issue:** ✓

- 1) The installation must comply with the State of Maine Gas Regulations.

PERMIT ISSUED

JUL - 8 2010

City of Portland



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

PERMIT ISSUED

JUL - 8 2010

371 A016

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 WESTER DR Use of Building HOME Date 7-2-10
Name and address of owner of appliance PETER JANUWIAK

Installer's name and address JEFF DAVIS 23 BROWN ST WESTBROOK, ME.
Telephone 450 0784

Location of appliance:
 Basement Floor
 Attic Roof

Type of Fuel:
 Gas Oil Solid

Appliance Name: TRINITY Ti 150
 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 # ~~TNT 3563~~
 Solid Fuel # _____
 Oil # _____
 Gas # TNT 3563
 Other _____

Type of Chimney:
 Masonry Lined
 Factory built PVC

Metal
 Factory Built U.L. Listing # _____

Direct Vent
 Type PVC UL# _____

Type of Fuel Tank
 Oil
 Gas

Size of Tank 200 GAL

Number of Tanks 1

Distance from Tank to Center of Flame 40 feet.

Cost of Work: \$ 4000
 Permit Fee: \$ 60.00

RECEIVED

JUL - 2 2010

Dept. of Building Inspections
City of Portland Maine

Approved

Approved with Conditions

Fire: _____
Ele.: _____
Bldg.: _____

See attached letter or requirement

Inspector's Signature

Date Approved

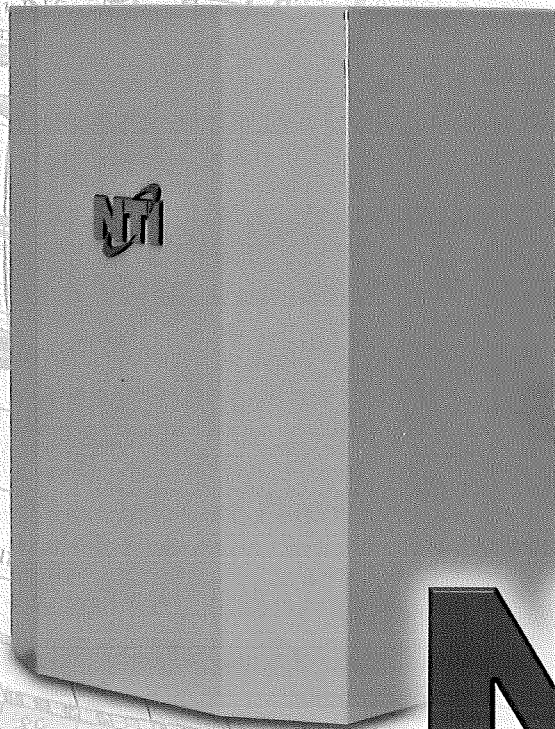
Signature of Installer Jeff Davis

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

TRINITY *Ti*

95.1% AFUE

*Ultra Efficient
Boiler and
Water Heater*

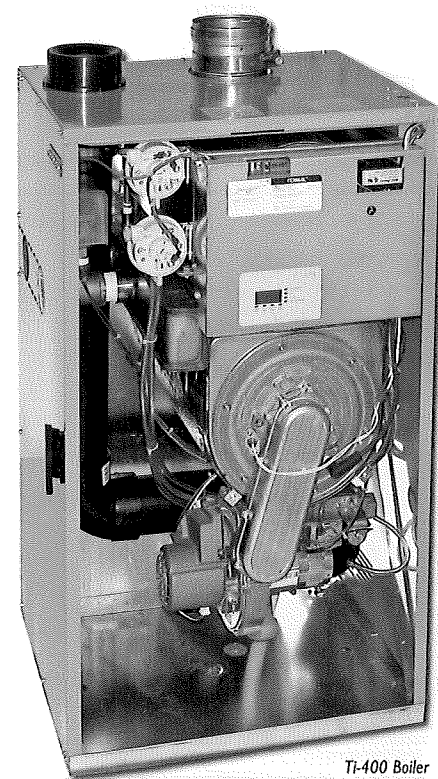


NTI
NY THERMAL INC.

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.



Ti-400 Boiler



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.

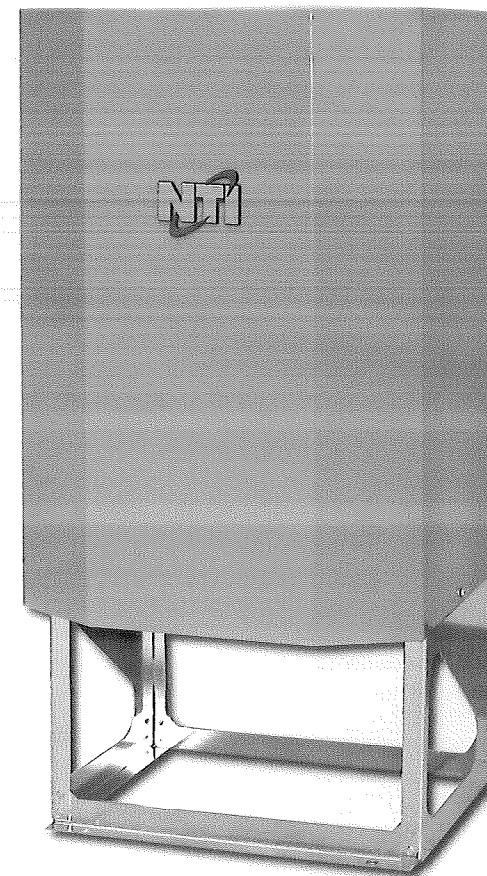
The unparalleled NTI combustion system

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.



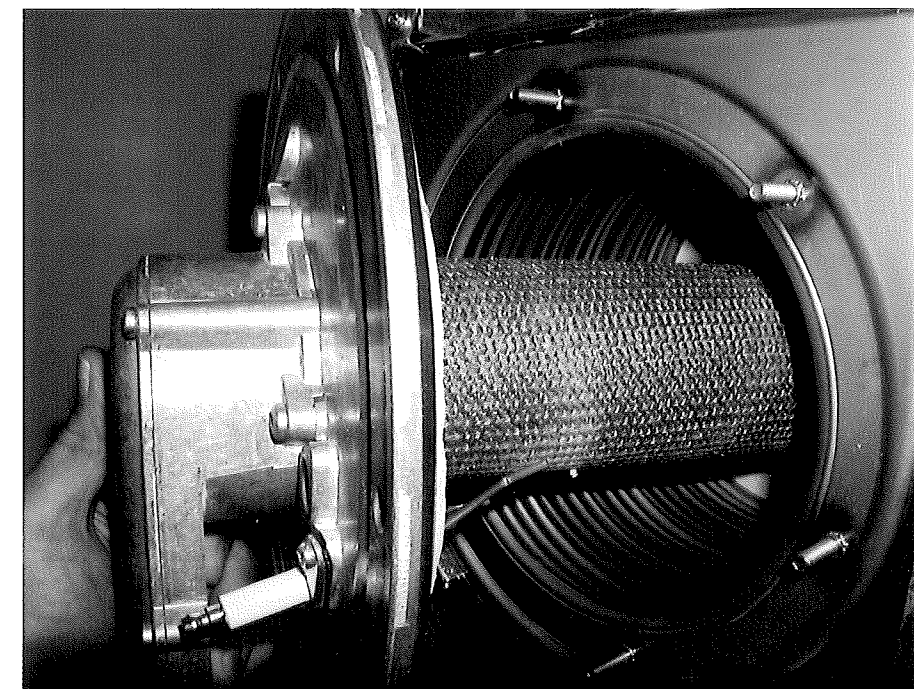
Ti-150 with floor-mounting stand

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 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 6,000 square-foot 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.



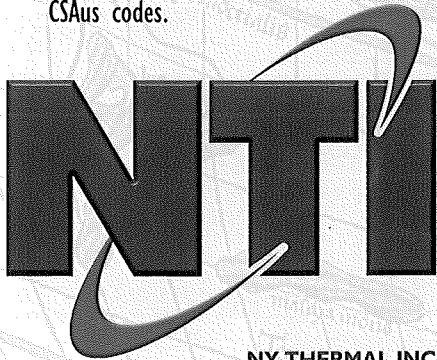
The Trinity uses a stainless burner with a metal fiber coating to produce extremely high modulation rates. This interior view of the combustion chamber illustrates the water tube heat exchanger, which is constructed of 316L stainless steel.

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.



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

GENERAL SPECIFICATIONS

	Ti100	Ti150	Ti200	Ti400
Size (D x W x L)	14" x 15.5" x 22"	14" x 15.5" x 22"	17" x 15.5" x 22"	23.5" x 21" x 36"
Weight	80 lbs.	80 lbs.	110 lbs.	205 lbs.
Max. Pressure	30 PSI	30 PSI	30 PSI	145 PSI
Gas Type	Natural, Propane	Natural, Propane	Natural, Propane	Natural, Propane
Max. Vent	105' equivalent	105' equivalent	105' equivalent	4"-30', 6"-65' eqv.
Gas Connection Size	1/2" NPT	1/2" NPT	1/2" NPT	3/4" NPT
Max. Supply Water	200°F	200°F	200°F	200°F
Min. Return Water	40°F	40°F	40°F	40°F
Oxygen Tube Barrier	Required	Required	Required	Required
Certification	CSA, AGA, CSAus, *ASME	CSA, AGA, CSAus, *ASME	CSA, AGA, CSAus, ASME	CSA, AGA, CSAus, ASME

* Optional

HEATING SPECIFICATIONS

	Ti100	Ti150	Ti200	Ti400
BTU Input x1000	15 - 100	25 - 150	25 - 200	75 - 399
BTU Output x1000	14 - 95	23 - 142	23 - 190	71 - 379
S.S. Efficiency	98%	98%	97%	96%
AFUE	95.1%	95.1%	95.1%	95.1%
Head Loss @ GPM	12' @ 8	12' @ 8	13' @ 10	9' @ 20
Supply - Return	3/4" NPT	3/4" NPT	1" on H, 3/4" on C Models	1 1/4" NPT
Boiler Modulation Ratio	6.6:1	6:1	8:1	5.3:1
Flow Switch	Optional	Optional	Optional	Installed

DOMESTIC HOT WATER

(Combi Version)

	Ti150	Ti200
Supply - Return	3/4" NPT Outlet 1/2" Inlet	
DWH Pressure Drop	1 PSI	
Head Loss @ GPM	15' @ 8	18' @ 10
Temperature Regulation	Electronic Modulation	
D.H.W. Outputs at	4.0 @ 110°F	5.5 @ 110°F
45° Inlet Water	3.5 @ 120°F	4.8 @ 120°F
(GPM @ Water °F)	3.1 @ 130°F	4.5 @ 130°F

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



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