

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 10-1247	Issue Date:	CBL: 168 H001001
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Location of Construction: 265 Sherwood St	Owner Name: Trumble Shirlene R	Owner Address: 265 Sherwood St	Phone:
Business Name:	Contractor Name: Charles J. Brown	Contractor Address: 37 Euclid Ave Portland	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R-5

Past Use: Single Family	Proposed Use: Single Family / Install one (1) 275 gallon oil boiler in the basement.	Permit Fee: \$70.00	Cost of Work: \$5,000.00	CEO District: 4
		FIRE DEPT: N/A <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R3 Type: State of ME oil R solid. fuel comb	

Proposed Project Description: Install one (1) 275 gallon oil boiler in the basement.	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: 10/08/2010	Zoning Approval	
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<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 information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> MM	<p>Zoning Appeal</p> <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	<p>Historic Preservation</p> <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
	<p>Date: 10/8/10</p>	<p>Date:</p>	<p>Date:</p>

Permit ISSUED

OCT - 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

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Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 10/08/2010
Note: **Ok to Issue:**

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jonathan Rioux **Approval Date:** 10/08/2010
Note: **Ok to Issue:**

- 1) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
- 2) Installation shall comply with 2003 International Mechanical Code and State of Maine Oil and Solid Fuel Board Laws and Rules, and manufactures listing.

PERMIT ISSUED

OCT - 8 2010

City of Portland



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

168 H 001

OCT - 8 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 _____ Use of Building Home Date 10/5/10
 Name and address of owner of appliance Shirley Trumble Smith
265 Sherwood St. Portland, ME 04103
 Installer's name and address Charles J. Brown Telephone 207 999 0788
37 Euclid Ave Portland ME

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Boiler
 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 # Master MS30014170
- Gas # _____
- Other _____

Type of Chimney:

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

Type of Fuel Tank

- Oil
- Gas

Size of Tank 275 gal.

Number of Tanks 1

Distance from Tank to Center of Flame 15 feet.

Cost of Work: \$ 5,000

Permit Fee: \$ 70.00

Approved

Fire: _____
 Ele.: _____
 Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Signature of Installer

Charles J. Brown

Inspector's Signature

Date Approved

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



FILL IN AND SIGN WITH INK

PERMIT ISSUED

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OCT - 8 2010

168 H 001

City of Portland

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265 Sherwood St. Portland, ME 04103
 Installer's name and address Charles J. Brown
37 Evaled Ave Portland ME Telephone 207 797 0788

Location of appliance:

- Basement Floor
 Attic Roof

Type of Fuel:

- Gas Oil Solid

Appliance Name: Boiler

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 # Master MS30014170
 Gas # _____
 Other _____

Type of Chimney:

- Masonry Lined
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Fire: _____

Ele.: _____

Bldg.: _____

Signature of Installer

Charles J. Brown

Approved with Conditions

- See attached letter or requirement

Inspector's Signature

Date Approved

PERMIT ISSUED

BY: [Signature]
OFFICE OF PERMITTING

To: [Illegible]
[Illegible]

Location: [Illegible] Date: 11/9/10
Name: [Illegible]
Address: [Illegible]
Phone: [Illegible]

[Illegible text in left column]

[Illegible text in right column]

File: _____
Etc: _____
Blk: _____

Inspector's Signature: _____ Approved

THE BIASI B10 HEATING SYSTEM

IN THE ALPS, WINTERS ARE COLD AND FUEL IS EXPENSIVE.

If necessity is the mother of invention, it's easy to understand the design evolution of the incredibly efficient BIASI B10 home heating system. Winters in the mountains of Northern Italy can be very cold. What's worse, heating fuel is three times more expensive than in the U.S.

The BIASI B10 Boiler is the heart of an ingenious engineering adaptation to a difficult situation—by a people known for innovative design and superior craftsmanship.

Add a bit of Yankee ingenuity (in the form of Hi-Pressure burners, electronic controls, indirect hot water heaters, and cabinet design technology) and the BIASI B10 has evolved into one of the most efficient home heating and hot water systems on either side of the Atlantic.

Fortunately, it's also one of the most affordable.



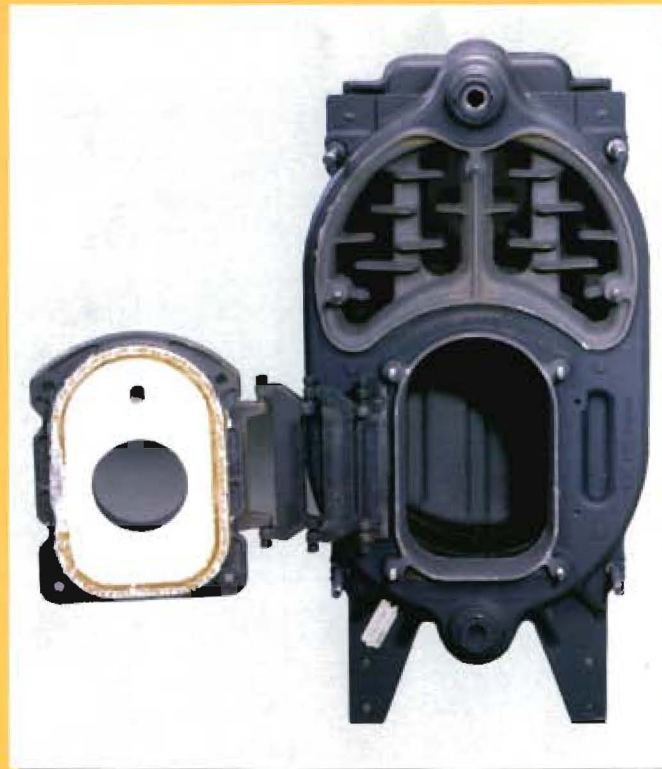
THE ULTIMATE IN HYDRONIC SPACE HEATING TECHNOLOGY

The BIASI B10 is a rugged, high performance, oil/gas fired, cast iron boiler engineered to deliver efficiencies as high as 87.3%; much higher than that of 'single pass' domestic boilers.

The BIASI B10 has a unique triple-pass heat exchanger that extracts the maximum amount of heat from the combustion gasses, resulting in very little wasted heat.

The B10 Boiler is virtually indestructible, constructed of GG20 cast iron, ASME rated at 58 psi, yet only weighs as little as 250 lbs. It uses very little water compared to conventional single pass boilers. So your zone is heated long before the large mass, single pass boiler gets up to circulation temperature. Its compact design makes it suitable for installation in small spaces.

In short, the BIASI B10 offers home and building owners an affordable, versatile, long lasting heating system that provides super high combustion efficiencies and considerably lower fuel costs.



The Biasi B10 Boiler Block with Swing Door

ALL THE HEAT & HOT WATER YOU NEED...

AT A FRACTION OF THE COST



Our B10 Boiler, coupled with an indirect storage tank, will supply all the hot water you need; which means no more cold showers.

In the summer, the B10 boiler only needs to fire once or twice a day, because ample amounts of domestic hot water (DHW) are readily available in a 40-gallon indirect storage tank. Compare that to a single pass boiler, which may use a tankless coil holding less than 1/2 gallon of DHW. This requires the single pass boiler to maintain 160° F

temperature continuously (even in the summer) to sustain your hot water supply. With the BIASI B10 boiler and an indirect storage tank, you'll always be in hot water, and at a lower cost than a conventional boiler system or an electric water heater.

BIASI B10-SERIES ADVANTAGES

- Lifetime Warranty
- Can reduce heat and hot water costs by half
- UL and CUL Listed
- BIASI B10 boilerblock is ASME rated for 58 psi
- GG20 flexible cast iron construction for superior durability
- Quiet Operation
- Multi-fuel capability (adapts easily to oil or gas burners)
- Direct vent listed oil or gas (no chimney needed)
- Uses the smallest possible volume of water (as little as 3 gallons)
- Low maintenance; easy to access, easy to clean
- Extra heavy insulation for low jacket and standby losses
- Compatible with all electronic control systems

BIASI B10...The Right Size for the Job

Boiler Model*	Heating Capacity (MBH)	AFUE Efficiency (%)	Water Content (Gals.)	Dimensions L·W·H (Inches)	Weight (Lbs.)
B-3	67	86.7	3.7	15.5 · 19 · 30	247
B-4	97	86.8	4.7	19.5 · 19 · 30	307
B-5	124	87.3	5.7	23.5 · 19 · 30	367
B-6	153	86.8	6.7	28.5 · 19 · 30	427
B-7	185	86.9	7.7	33.5 · 19 · 30	486
B-8	211	86.9	8.7	38.5 · 19 · 30	546
B-9	257	86.6	9.7	42.5 · 19 · 30	606

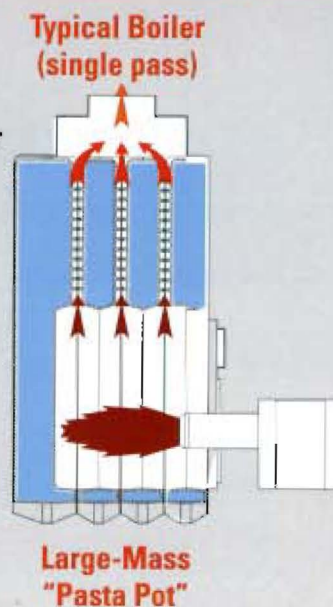
Maximum water working pressure: 58 PSI. The efficiency ratings are based on a combustion condition of 13% CO₂. Warranty: The BIASI B10 boiler has a limited lifetime warranty. A copy is provided with each boiler or is available from your dealer. Built in accordance with the requirements of ASME boiler and pressure vessel code.



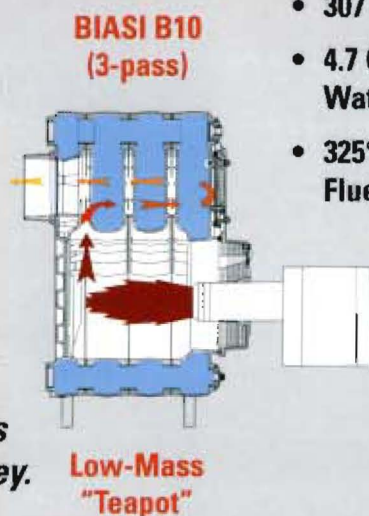
Three-Pass Design

Single Pass Large Mass vs. Three-Pass Low Mass

- 550 lbs
- 17 Gallons of Water
- 450°-550° F Flue Temperature



Because B10's heat exchanger path is 7.3 ft. versus 1.5 ft. for a single-pass, "pin-type" boiler, our 3-pass boiler heats more surface area per gallon burned with 50% less heat loss up the chimney.



- 307 lbs
- 4.7 Gallons of Water
- 325°-350° F Flue Temperature

Biasi B10...The Right Size for the Job.

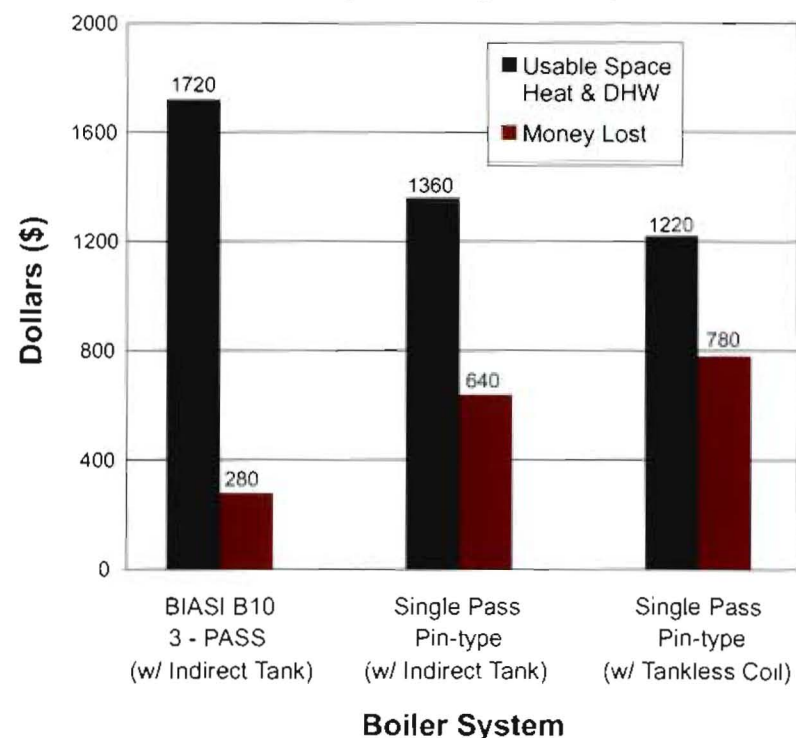
If you were heating water for a cup of tea, would you use a pasta pot or a teapot? Think of the tankless, large-mass, single pass boiler as a pasta pot and the BIASI B10, low-mass, 3-pass boiler as a teapot. Heating systems in today's houses only hold 5-8 gallons of water. Why burn all the fuel necessary to heat 17 gals. of boiler water in a 600 lb., single pass boiler? The low-mass BIASI B10 with its 3-pass design and 4 gals. of water content will satisfy the call for heat before the single pass boiler has even warmed up. The single pass boiler has heated twice the amount of iron and four times the amount of water. All that excess heat goes "up the chimney" with your fuel dollars.

Money Saved by Choosing the BIASI B10

For a Typical Home Using Conventional Baseboard Heating Elements and Consuming \$2000 of Fuel Per Year

Available from:

Money Savings Comparison



The BIASI B10 Boiler System



...the style of warmth



Quincy Hydronic Technology, Inc.
Portsmouth, New Hampshire



QHT
INCORPORATED

Quincy Hydronic Technology, Inc. • www.qhtinc.com

