

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND

# BUILDING PERMIT

This is to certify that GARLAND CHRISTIAN» MISENER

Located At 37 LONGVIEW

Job ID: 2011-08-2052-HVAC

CBL: 388 - - B - 015 - 001 - - - - -

has permission to Install Biasi B10 boiler

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**

*[Handwritten signature and date 8/24/11]*

## 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.

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

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

Job No: 2011-08-2052-HVAC	Date Applied: 8/22/2011	CBL: 388 - - B - 015 - 001 - - - - -	
Location of Construction: 37 LONGVIEW DRIVE	Owner Name: GARLAND CHRISTIAN MISENER	Owner Address: 163 MAINE AVE PORTLAND, ME - MAINE 04103	Phone:
Business Name:	Contractor Name: DOWNEAST ENERGY CO	Contractor Address: PO BOX 250 BRUNSWICK MAINE 04011	Phone: ( ) -799-5585
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-2
Past Use: Single family dwelling	Proposed Use: Same: Single family dwelling - to install Biasi new boiler	Cost of Work: \$7000.00	CEO District:
		Fire Dept:  <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input checked="" type="checkbox"/> N/A Signature: 	Inspection: <i>R-3</i> Use Group: <i>SB</i> Type: <i>IR 09</i> Signature: 
Proposed Project Description: Install a Biasi B10 Boiler System		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Lannie		<b>Zoning Approval</b>	

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>8/23/11</i>	<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:	<input checked="" type="checkbox"/> Not in Dist 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: 

**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.

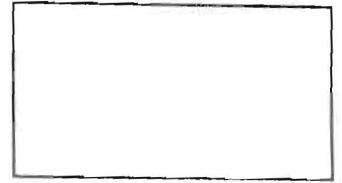
SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHON





FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



R-2

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 398-B-15 Use of Building Private Date 8/22/11  
 Name and address of owner of appliance Christian Miserer 37 Longview Rd.  
Portland 04103  
 Installer's name and address Downeast Energy 172 Main St  
South Portland ME 04106 Telephone 207-799-5585

### 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 # MS 30007705
- 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 27

Number of Tanks \_\_\_\_\_

Distance from Tank to Center of Flame 20 feet.

Cost of Work: \$ 7000.00

Permit Fee: \$ 90

Dept. of Building Inspectors  
 City of Portland Maine  
 AUG 22 2011  
 FILED

### Approved

Fire: \_\_\_\_\_

Ele.: \_\_\_\_\_

Bldg.: \_\_\_\_\_

### Approved with Conditions

- See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer

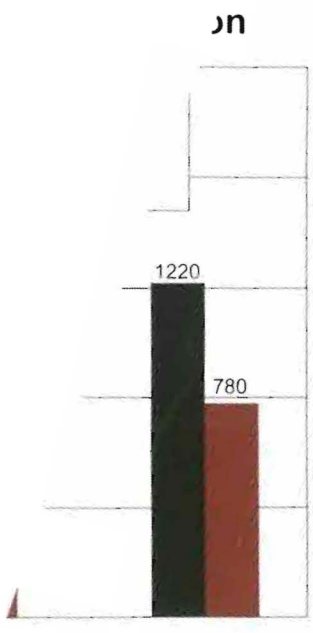
Steve Gendell



# The **BIASI B10** Boiler System



*...the style of warmth*



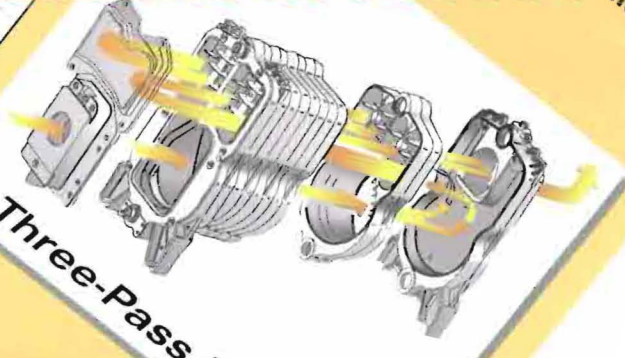
Two Pass Pin-type (w/ Tankless Coil)  
 Single Pass Pin-type (w/ Tankless Coil)  
 System



Quincy Hydronic Technology, Inc. • [www.qhtinc.com](http://www.qhtinc.com)



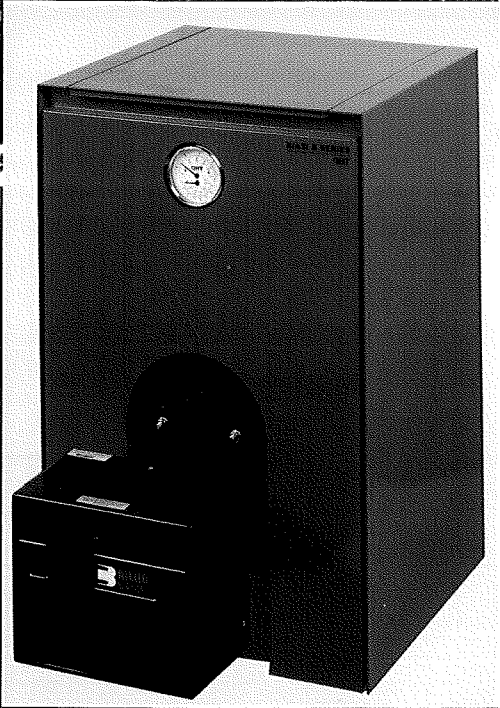
on a combustion condition of 1.3%  
 copy is provided with each boiler or is  
 of ASME boiler and pressure vessel code.



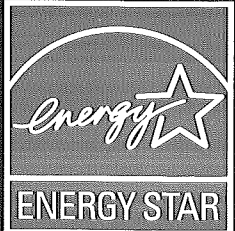
**Three-Pass Design**



# The BIASI B10 Boiler System



*...the style of warmth*



**QHT**

INCORPORATED

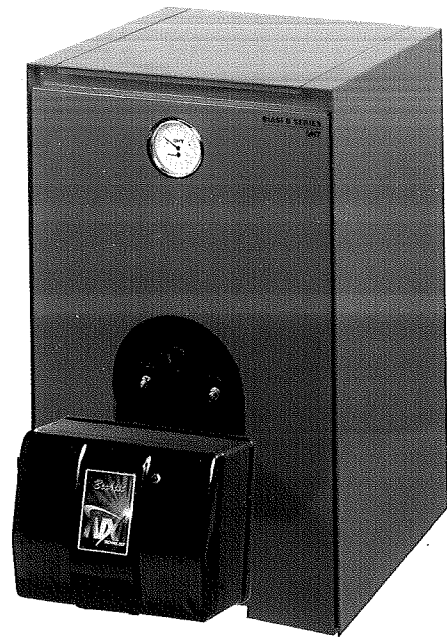
Quincy Hydronic Technology, Inc. • [www.qhtinc.com](http://www.qhtinc.com)

**BIASI**



# 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.*

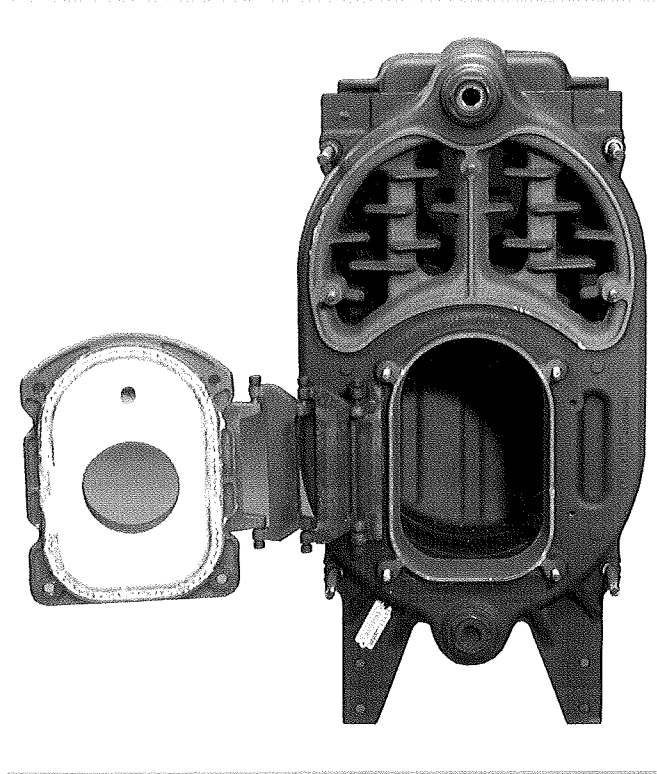
## THE ULTIMATE IN HYDRONIC SPACE HEATING TECHNOLOGY

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.

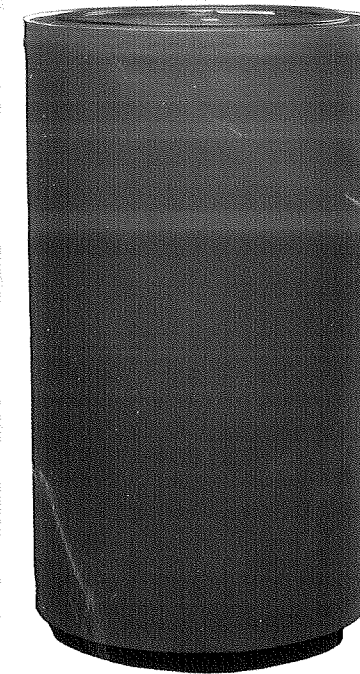
In short, the BIASI B10 offers home and building owners an affordable, versatile, long lasting heating system that provides super high combustion efficiencies and considerably lower fuel costs.



The Biase 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.

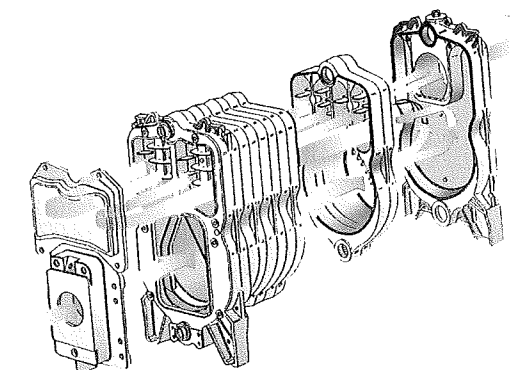
## BIASI B10-SERIES ADVANTAGES

- *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 <sup>#</sup>	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

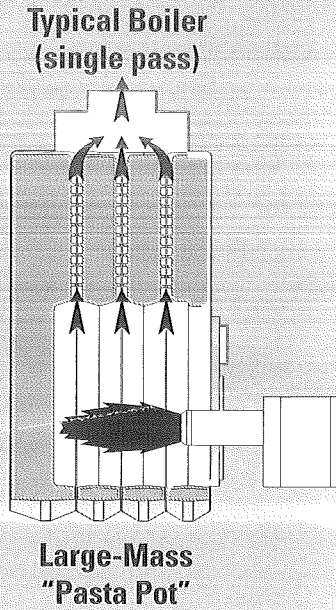
Maximum water working pressure: 58 PSI. The efficiency ratings are based on a combustion condition of 13% CO<sub>2</sub>. Warranty: The BIASI B10 boiler has a limited lifetime warranty. A copy is provided with each boiler or is available from your dealer. Built in accordance with the requirements of ASME boiler and pressure vessel code.



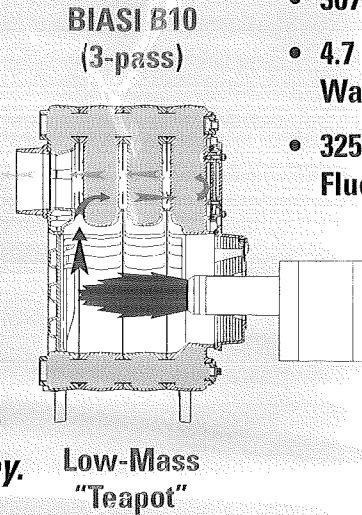
Three-Pass Design

# 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

## Biase B10...The Right Size for the Job.

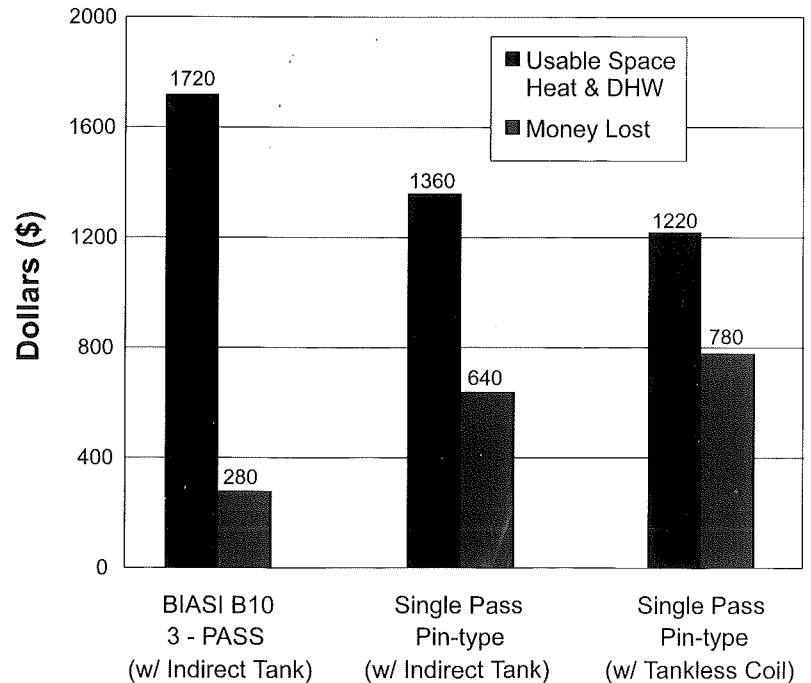
If you were heating water for a cup of tea, would you use a pasta pot or a teapot? Think of the tankless, large-mass, single pass boiler as a pasta pot and the BIASI B10, low-mass, 3-pass boiler as a teapot. Heating systems in today's houses only hold 5-8 gallons of water. Why burn all the fuel necessary to heat 17 gals. of boiler water in a 600 lb., single pass boiler? The low-mass BIASI B10 with it's 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



Boiler System



Quincy Hydronic Technology, Inc.  
Portsmouth, New Hampshire