

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 10-1155	Issue Date:	CBL: 297 C014001
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Location of Construction: 90 DOROTHY ST	Owner Name: COLLINS STEVEN D	Owner Address: 7465 BINGHAM RD	Phone:
Business Name:	Contractor Name: Dominic DiBiase	Contractor Address: 52 Constitution Drive Westbrook	Phone: 2077975408
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R-3

Past Use: Single Family Home	Proposed Use: Single Family Home - install HB Smith boiler	Permit Fee: \$70.00	Cost of Work: \$4,800.00	CEO District: 5
		FIRE DEPT: N/A <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: RS Type: None out E solid fuel gas	

Proposed Project Description: install HB Smith boiler	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: ldobson	Date Applied For: 09/17/2010	Zoning Approval	
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1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
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..

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: 9/22/10	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 12 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 - Building or Use Permit

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

Permit No: 10-1155	Date Applied For: 09/14/2010	CBL: 297 C014001
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Location of Construction: 90 DOROTHY ST	Owner Name: COLLINS STEVEN D	Owner Address: 7465 BINGHAM RD	Phone:
Business Name:	Contractor Name: Dominic DiBiase	Contractor Address: 52 Constitution Drive Westbrook	Phone: (207) 797-5408
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Home - install HB Smith boiler	Proposed Project Description: install HB Smith boiler
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 09/22/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Building	Status: Approved with Conditions	Reviewer: Jonathan Rioux	Approval Date: 10/12/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Installation shall comply with 2003 International Mechanical Code, manufactures listing, and State of Maine Oil and Solid Fuel Board Laws and Rules.			
2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.			

PERMIT ISSUED

OCT 12 2010

City of Portland



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

PERMIT ISSUED

OCT 12 2010

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

City of Portland

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 90 Dorothy St 277-C-14 Use of Building Residence Date 9/13/10
Name and address of owner of appliance Steve Collins's 90 Dorothy St.

Installer's name and address Dominic DiBiase
52 Constitution Dr. Telephone 797-5408
Westbrook, me 04097

Location of appliance:

Basement Floor
 Attic Roof

Type of Fuel:

Gas Oil Solid

Appliance Name: HR Smith 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 # M530014971
 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 _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 4800

Permit Fee: \$ 70

RECEIVED
SEP 14 2010
Dept. of Building Inspections
City of Portland, Maine

Approved with Conditions

See attached letter or requirement

Fire: _____
Ele.: _____
Bldg.: _____
Signature of Installer Dominic DiBiase 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

9.14 2010

Received from D. Liase

Location of Work 90 Dnothy-

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 70

Building (11) _____ Plumbing (15) _____ Electrical (12) _____ Site Plan (12) _____

Other Heat

CBL: 297-2-14

Check #: 1625 Total Collected \$ 70

**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



series 8



More Cast Iron Means Better Performance

The 8 Series, with its rugged cast iron construction, offers commercial quality in a residential boiler. With cast iron sections, thicker and deeper than in other leading boilers, the 8 Series offers a multitude of performance advantages including higher heat retention, better combustion, quiet operation and superior steam performance. These high efficiency boilers offer exceptional efficiencies of over 85%.



Extra-deep Sections

The cast iron sections of the Smith 8 Series are an extra-deep 4X inches. These sections offer larger water content and increased water surface area in the boiler. Corrosion and mineral build-up is minimized and maximum heat transfer is maintained. This larger water content also reduces unnecessary make-up water in steam applications and quicker start-up is facilitated by better steam generation.

Thicker Walls and Higher Mass

The thicker walls and higher mass of the 8 Series boiler maintains a high water temperature for a greater length of time after the burner has stopped firing. This higher heat retention reduces short cycling for maximum efficiency.

Longer Combustion Chamber for Clean Combustion

With more room for the combustion process to occur, the longer chamber provides better, cleaner combustion. Decreased chance of flame impingement minimizes incomplete combustion and sooting. This longer chamber also reduces noise levels for quieter operation.

Quiet Rear Outlet Design

The rear outlet design of the 8 Series allows quieter operation. Designed to provide a sound attenuating effect much like that of a car muffler, the flue gases are routed through two turns before venting into the chimney. This advanced design offers notably reduced noise levels.

Built and Backed for a Lifetime

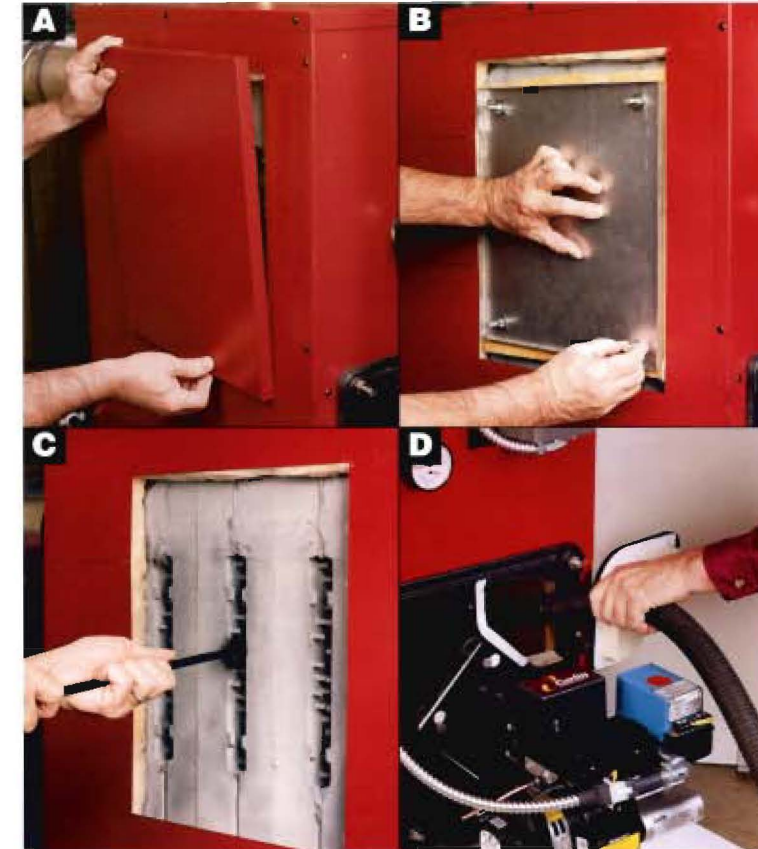
Without question, cast iron construction offers superior durability and longer life. Each 8 Series section is pressure tested and retested upon assembly. Your complete satisfaction on all 8 Series boilers is backed by a lifetime warranty* and our commitment to excellence.



*See warranty statement for complete details

Service Made Simple

Servicing the 8 Series is fast and easy with time-saving features such as the lift-off access panel, one piece cleanout cover plate and new swing out service hatch. Simply lift off the access panel (A), unscrew the wing nuts (B), use a standard flue brush to clean between the tapered section pins (C), and vacuum out the combustion chamber (D).



Domestic Hot Water

Enjoy ample low-cost domestic hot water without the expense of a separate water heater. Designed for installation in minutes and hassle-free removal for cleaning, the optional tankless heater is capable of producing up to 5 gallons of domestic hot water per minute.



STANDARD EQUIPMENT

Steam and Water

- Cast-iron wet base sections
- Beckett AFG, Carlin EZ-Pro or Riello flame retention burner with nozzle
- Cast-iron smokehood
- Preformed target wall
- Cast-iron heater cover plate
- Wooden shipping crates

Steam Only

- Hi-limit pressure control
- A.S.M.E. safety relief valve (15 psi)
- Steam pressure gauge
- Gauge glass and fittings
- Low water cutoff HydroLevel CG-450 +CGT-450

Water only

- Hydronic relay, hi-limit and circulator control
- A.S.M.E. relief valve (30 psi)
- Theratrimeter
- Taco circulator
- Brass drain cock

OPTIONAL EQUIPMENT

Steam and Water

- Two stage fuel unit

Steam Only

- Tankless heater (side mount). Includes operating temperature (low limit) control (L4007A)

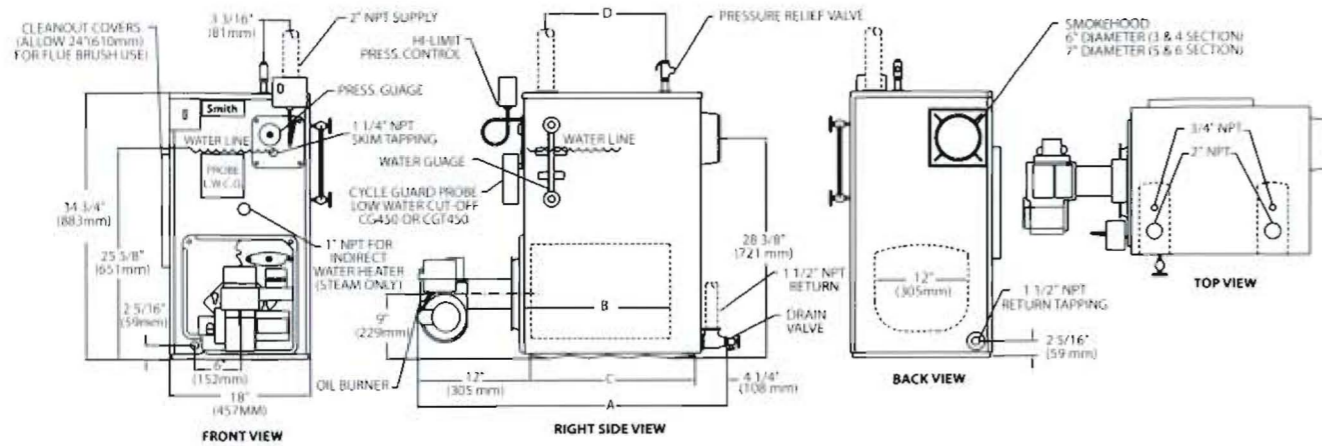
Water Only

- Tankless heater (front mount). Includes combination triple aquastat and circulator relay (L8124A)
- Less circulator

series 8

OIL FIRED RESIDENTIAL BOILER

Light Oil D.O.E. Heating capacity ratings 91,000 to 250,000 Btuh.



Ratings, Burner Capacities, Chimney Sizes, Dimensions

Boiler Model Number	D.O.E. Heating Capacity MBH	I=B=R Burner Capacity (Note 2) MBH		I=B=R Net Ratings			Natural Draft Chimney (Note 3)	A.F.U.E. %		Overall Length (Inches) A	Chamber Length (Inches) B	Boiler Length (Inches) C	Distance between Supply Tappings (Inches) D	Square Feet of Heating Surface	Chamber Volume (Cu. Ft.)	Water Content (Gal. for Steam)	Water Content (Gal. for Water)
		Water	Steam	Water	Steam	Sq. Ft.		Water	Steam								
8"-3L	91	.75	105	79	68	283	8x8x18"	86.2	85.6	33"	13-3/8"	16-3/4"	10-3/4"	12.19	0.832	9.8	11.7
8"-3H	113	.95	133	98	84	350	8x8x18"	84.1	83.4	33"	13-3/8"	16-3/4"	10-3/4"	12.19	0.832	9.8	11.7
8"-4L	133	1.10	154	116	99	413	8x8x17"	86.2	85.5	37-3/4"	18-1/8"	21-1/2"	15-1/2"	17.55	1.128	12.3	15.1
8"-4H	150	1.25	175	130	112	467	8x8x17"	85.4	84.7	37-3/4"	18-1/8"	21-1/2"	15-1/2"	17.55	1.128	12.3	15.1
8"-5L	169	1.40	196	147	126	525	8x8x16"	86.2	85.3	42-1/2"	22-7/8"	26-1/4"	20-1/4"	22.91	1.423	14.9	18.5
8"-5H	203	1.70	238	177	152	633	8x8x16"	85.1	84.5	42-1/2"	22-7/8"	26-1/4"	20-1/4"	22.91	1.423	14.9	18.5
8"-6L	211	1.75	245	183	157	654	8x8x15"	86.2	85.1	47-1/4"	27-5/8"	31"	25"	28.29	1.719	17.4	21.9
8"-6H	249	2.10	294	217	186	775	8x8x15"	84.8	84.3	47-1/4"	27-5/8"	31"	25"	28.29	1.719	17.4	21.9

Standard Working Pressure 30 psi Water, 15 psi Steam. All Boilers Hydrostatically tested - A.S.M.E.

* Insert "s" for steam or "w" for water.

(Note 1) Net ratings shown are based on an allowance of 1.333 for steam or 1.15 for water.

(Note 2) Light oil having heat content of 140,000 BTU/Gal.

(Note 3) Nominal clay tile liner dimensions.

In the interest of product improvement we reserve the right to make changes without notice.

Crated Outside Dimensions

Boiler Number	Length (Inches)	Width (Inches)	Height (Inches)
8"-3	33-1/2	22	37
8"-4	38-1/4	22	37
8"-5	43-1/4	22	37
8"-6	48	22	37



Tankless Water Heater Capacities

Boiler Sections	Firing Rate (GPH)	Intermittent Flow GPM (1)		Continuous Flow GPM (1)	
		Water	Steam	Water	Steam
8"-3L	.75	2.5	2.5	1.75	1.75
8"-3H	.95	2.5	2.5	2.0	2.0
8"-4L	1.00	3.3	3.3	2.5	2.5
8"-4H	1.25	3.3	3.5	2.9	2.9
8"-5L	1.35	3.8	3.5	3.3	3.0
8"-5H	1.65	4.5	3.5	3.9	3.0
8"-6L	1.75	4.6	3.5	4.0	3.0
8"-6H	2.00	5.0	3.5	4.9	3.0

(1) Temperature rise 100°F with boiler water at 180°F.

The manufacturer should be consulted before selecting a boiler for installations having unusual piping and pick-up requirements such as intermittent system operation, extensive piping systems, etc.

If draft over the fire exceeds .04" WC or is required by local code, barometric damper must be supplied by the installing heating contractor.

For forced hot water heating systems where the boiler and all the piping are within the area to be heated, the boiler may be selected on the basis of its D.O.E. heating capacity. Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

SERIES 8

Smith
CAST IRON BOILERS



series 8

OIL FIRED RESIDENTIAL BOILER

THE HEATING Pros

Westcast, Inc., 260 North Elm Street, Westfield, MA 01085
(413) 562-9631 • FAX: (413) 562-3799
www.smithboiler.com

A MESTEK COMPANY