

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

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

Job No: 2011-02-476-DUP - #2011-2335	Date Applied: 3/30/2011	CBL: 324 - - A - 001 - 001 - - - - -	
Location of Construction: 1920 FOREST AVE	Owner Name: William Jipson	Owner Address: P.O Box 7015 AVE SCARBOROUGH, ME - MAINE 04070	Phone:
Business Name:	Contractor Name: GUY N DEROSIER	Contractor Address: PO BOX 1863 BIDDEFORD MAINE 04005	Phone: (207) 283-0401
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: B-2
Past Use: Two Family Dwelling	Proposed Use: Same: Two Family Dwelling - to install oil hot water boiler	Cost of Work: \$20,000.00	CEO District:
		Fire Dept: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input checked="" type="checkbox"/> N/A	Inspection: Use Group: Type: Signature: <i>AR</i>
Proposed Project Description: 1920 Forest Ave - instal oil hot water boiler		Pedestrian Activities District (P.A.D.)	
Permit Taken By:	<b>Zoning Approval</b>		

- 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 informatin may invalidate a building permit and stop all work.

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <i>All original conditions on change</i> <input type="checkbox"/> Wetlands <i>Still in forest</i> <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>OK [Signature]</i> <i>3/31/11</i>	<input checked="" 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: <i>[Signature]</i>

**CERTIFICATION**

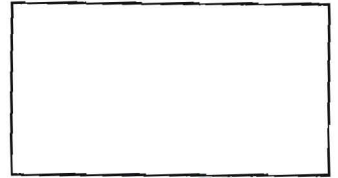
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the appication 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



*Front Page Clearance info Venting info*

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 1920 Forest Ave - Portland Use of Building multi Family Date 3/29/11  
 Name and address of owner of appliance Bill Jipson  
P.O. Box 7015 Scarborough Me 04070  
 Installer's name and address Guy Orosier 27 Ray St. Biddeford Me 04005  
Applicant Telephone 207-283-0401

**Location of appliance:**  
 Basement       Floor  
 Attic             Roof

**Type of Fuel:**  
 Gas       Oil       Solid

**Appliance Name:** Buderus  
 U.L. Approved  Yes  No

Will appliance be installed in accordance with the manufacture's installation instructions?  Yes  No

IF NO Explain: \_\_\_\_\_

**Type of Chimney:**  
 Masonry Lined  
 Factory built \_\_\_\_\_  
 Metal  
 Factory Built U.L. Listing # \_\_\_\_\_  
 Direct Vent  
 Type \_\_\_\_\_ UL# \_\_\_\_\_

**Type of Fuel Tank** existing  
 Oil  
 Gas

**Size of Tank** 275 gal

**Number of Tanks** 1

**Distance from Tank to Center of Flame** 8 feet.

**Cost of Work:** \$ 9000.00  
**Permit Fee:** \$ 110

RECEIVED

MAR 30 2011

Dept. of Building Inspections  
City of Portland Maine

**The Type of License of Installer:**  
 Master Plumber # MS 8166  
 Solid Fuel # \_\_\_\_\_  
 Oil # MS 30007243  
 Gas # \_\_\_\_\_  
 Other \_\_\_\_\_

**Approved**

**Approved with Conditions**

Fire: \_\_\_\_\_  
 Ele.: \_\_\_\_\_  
 Bldg.: \_\_\_\_\_

See attached letter or requirement

\_\_\_\_\_  
Inspector's Signature      \_\_\_\_\_  
Date Approved

Signature of Installer *[Signature]*

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

3/30/11

# 2011-2335

**Job Summary Report**  
Job ID: 2011-02-476-DUP

Report generated on Mar 30, 2011 2:39:24 PM

<b>Job Type:</b>	Duplex New	<b>Job Description:</b>	1920 Forest Ave	<b>Job Year:</b>	2011
<b>Building Job Status Code:</b>	In Review	<b>Pin Value:</b>	721	<b>Tenant Name:</b>	
<b>Job Application Date:</b>		<b>Public Building Flag:</b>	N	<b>Tenant Number:</b>	
<b>Estimated Value:</b>	20,000	<b>Square Footage:</b>			
<b>Related Parties:</b>		William Jipson		<i>Property Owner</i>	
		Derosier Plumbing & Heating - GUY DEROSIER		<i>PLUMBING CONTRACTOR</i>	
		RANDYLL G. THOMPSON - RANDYLL THOMPSON		<i>ELECTRICAL CONTRACTOR</i>	

*oil Hot Water Boiler*

**Job Charges**

Fee Code Description	Charge Amount	Permit Charge Adjustment	Net Charge Amount	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Net Payment Amount	Outstanding Balance
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Location ID: 34554

**Location Details**

Alternate Id	Parcel Number	Census Tract	GIS X	GIS Y	GIS Z	GIS Reference	Longitude	Latitude
D31440	324 A 001 001		M				-70.321563	43.700819

Location Type	Subdivision Code	Subdivision Sub Code	Related Persons	Address(es)
1				1920 FOREST AVENUE NORTH

Location Use Code	Variance Code	Use Zone Code	Fire Zone Code	Inside Outside Code	District Code	General Location Code	Inspection Area Code	Jurisdiction Code
TWO FAMILY		BUSINESS COMMUNITY					DISTRICT 8	RIVERSIDE

*B-2*

**Structure Details**

Structure: Duplex

Occupancy Type Code:

Structure Type Code	Structure Status Type	Square Footage	Estimated Value	Address
Two Family Dwelling	6			1920 FOREST AVENUE NORTH

*legal by 2011*

Longitude	Latitude	GIS X	GIS Y	GIS Z	GIS Reference
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User Defined Property	Value
Fans	3
Fixtures-Incandescent	18
Meters	1

*in Que*

**Job Summary Report**  
**Job ID: 2011-02-476-DUP**

Report generated on Mar 30, 2011 2:39:24 PM

<b>User Defined Property</b>		<b>Value</b>
Meters		3
Panels - Service		1
Panels - Service		2
Panels - Service		3
Ranges		2
Receptacles		20
Receptacles		60
Services Overhead under 800		1
Smoke Detectors		1
Smoke Detectors		6
Smoke Detectors		9
State ID		11582
Switches		12
Switches		30

**Permit #: 20111511**

<b>Permit Data</b>						
Location Id	Structure Description	Permit Status	Permit Description	Issue Date	Reissue Date	Expiration Date
34554	Duplex	Initialized	Change of use to 2 Residential			

<b>Inspection Details</b>						
Inspection Id	Inspection Type	Inspection Result Status	Inspection Status Date	Scheduled Start Timestamp	Result Status Date	Final Inspection Flag

<b>Fees Details</b>								
Fee Code Description	Charge Amount	Permit Charge Adjustment	Permit Charge Adj Remark	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Payment Adj Comment
Certificate of Occupancy Fee	\$75.00			2/24/11	1522	\$75.00		
Job Valuation Fees	\$220.00			2/24/11	1522	\$220.00		

**Permit #: 20112332**

<b>Permit Data</b>						
Location Id	Structure Description	Permit Status	Permit Description	Issue Date	Reissue Date	Expiration Date
34554	Duplex	Initialized	1920 Forest Ave			



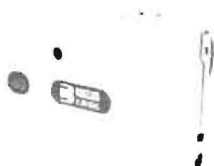
## 40-SERIES

OVERVIEW

DIMENSIONS

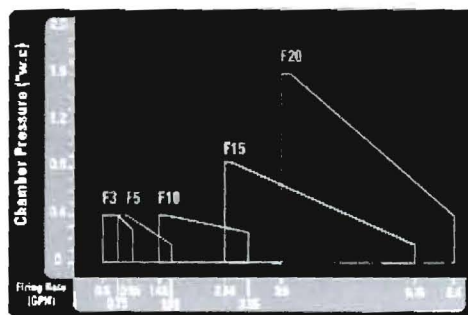
TECHNICAL DATA

FEATURES



**40-Series F3 - F20**  
On-Off • 0.5 - 6.4 GPH

### Technical Data



### Model

0.50 - 0.95	0.75 - 1.65	1.45 - 2.95	2.55 - 5.75	3.50 - 6.40
70 - 133	105 - 231	203 - 413	357 - 805	490 - 896
20 - 39	30 - 67	59 - 121	104 - 236	143 - 263

No heavier than Number 2 (Optional pump required for kerosene)

120v 60Hz 3250rpm

2.2amp

4.3amp

120 - 200 psi

40-Series oil burners are UL and CSA approved.



with boilers made from special low-temperature adapted, flexible and corrosion resistant GL-180M cast iron sections. Profiled and beveled steel push nipples ensure long leak-free life. Special sealing material provides a gas tight seal for operation. The G115 modified three pass boiler is unsurpassed in efficiency without leaving any residue due to:

- 1) Optimized combustion with positive pressure fired boilers and optimum chamber geometry without a heat consuming refractory or target wall.
- 2) Minimal stack losses with modified three pass flue design with large heat transfer areas.
- 3) Low standby losses with 3" thermal insulation around entire block (even underneath).

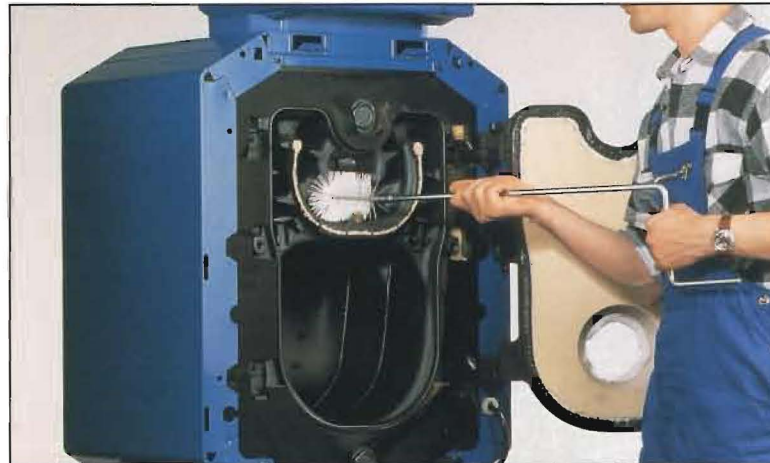


The Buderus special grey cast iron allows the combustion chamber and heating surface geometry to be ideally matched to the flame geometry and heat flow.

## Logano G115 boilers extract and deliver more heat from every fuel dollar.

### Installation and Maintenance Features:

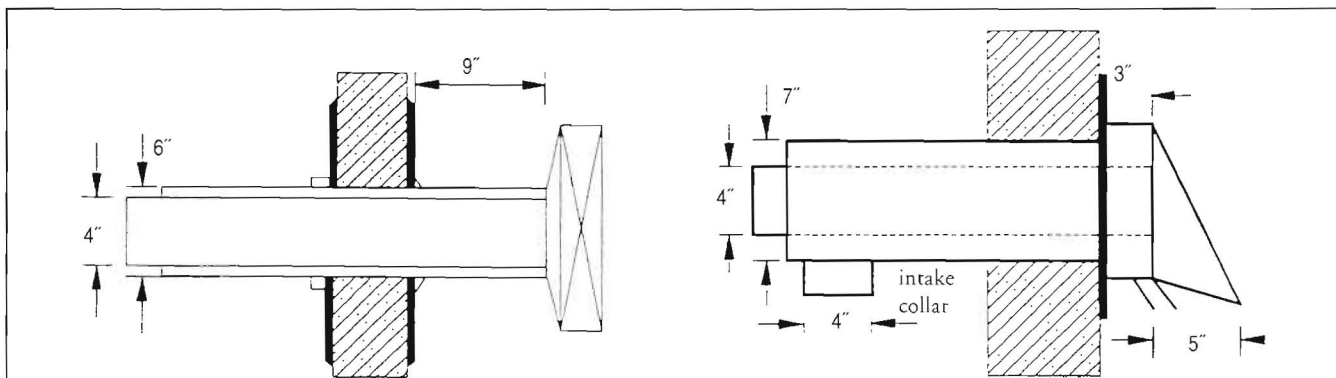
- 1) Full swing, reversible swing burner door for easy access, quick and thorough cleaning.
- 2) Adjustable screw-in feet for boiler leveling.
- 3) All rear tappings and flue connection for clean, finished appearance.
- 4) No refractory or target wall in chamber reduces maintenance and service costs.
- 5) Baffles and clips for adjusting stack temperatures.
- 6) Compact dimensions and integrated handles simplify transport and installation.
- 7) Front access plugs permit flushing of the water side of the boiler.



Buderus created the swing door on its combustion chamber for easy, thorough and proper cleaning. In fact, the Buderus boiler can be cleaned in a fraction of the time it takes to clean a conventional boiler, since it does not require disassembly.

## Two Venting Options: Chimney Vent and Sealed Combustion without Power Venter.

Vent into a chimney or directly through the wall with two ETL approved direct vent options.



## Complement the G

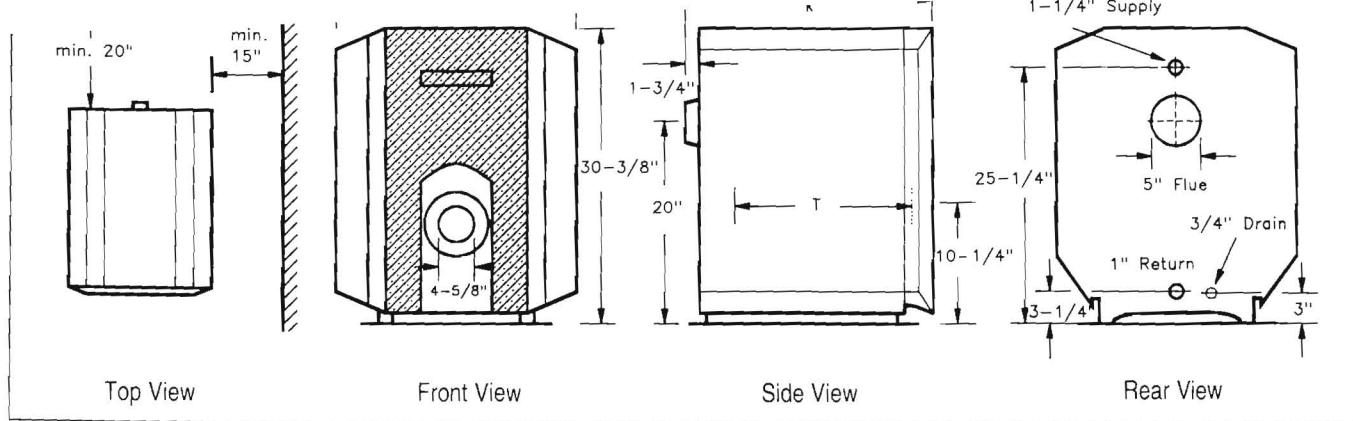
- Horizontal LT-tanks for
- LT models from 36 to every need.
- Vertical models for side installations.
- Vertical models from 4
- Easy access port for clean interior.
- "Duoclean" interior for corrosion resistance for cleaning.
- Large diameter coiled excellent recovery rates
- Heat exchanger capacity tank size.
- Magnesium or electric active corrosion protec

## Logano G115 and

	G115/21
LT135	●
LT160	●
LT200	●
LT300	●

## Buderus Logamatic

- Low temperature boiler maximum fuel efficiency
- Complete heating system temperature and indoor
- Priority DHW heating programs.
- Custom operation with programs.
- Fine-tuned radiant floor
- Dual boiler or 2-stage module.



Note: G115 boiler approved for 6" side clearance. Above clearances are recommended for ample access.

## Logano G115: Models from 74,000-120,000 BTU/Hr Heating Capacity



Boiler size	Number of sections	D.O.E. Heating Capacity	Net Rating	Firing Rate	Boiler Length L <sub>K</sub> in.	Combustion Chamber Length T in.	Flue connection dia D <sub>A</sub> in.	Water Content Gal.	Net Weight lbs.	AFUE %
		BTU/Hr.	BTU/Hr.	GPH						
21	3	74,000	64,000	0.60	21 1/8	16	5	8.7	331	86.5
28	4	98,000	85,000	0.80	25 3/4	20 1/2	5	10.8	403	86.8
34	5	120,000	104,000	1.00	30 1/2	25	5	12.9	476	86.0

Ratings based on a heating value of 140,000 Btu/gal of No. 2 Fuel Oil, breaching draft of -.02 to -.03 In. W.C. and 13% CO<sub>2</sub>. Minimum chimney height: 15'.

Buderus recommends the use of customized Becket AFII, Carlin EZ-1 and Riello F3 and F5 burners when firing G115 boilers with oil in chimney vent applications.

Buderus Hydronic Systems, Inc. offers above burners customized, complete with L8148A aquastat, flexible oil line, circulator and flanges.

## Logano G115 Sealed Combustion Oil Boilers

One of two ETL certified terminations are required for use with G115 Series boilers for direct vent applications. Both terminations are "zero clearance" systems for easy and versatile applications.

ETL approved with 2 4" 90° elbows and up to 6' of 4" regular smoke pipe for short vent runs. For longer runs, use up to 10 ft. of flexible stainless steel insulated oil vent.

Clearance requirements to combustibles for boiler and exhaust systems:

Front of Boiler	Side of Boiler	Rear of Boiler	Top of Boiler	Galv. Vent Pipe	Flex. Insulated Oil Vent	AT-4 Exhaust only Termination	FT-4 Concentric Pipe in Pipe Termination
24"	6"	18"	6"	18"	1"	1"	1"



Built in accordance with the requirements of the ASME Boiler and Pressure Vessel Code

## Burner Options for Sealed Combustion: Carlin P10, Riello BF3 and BF5.

- Use 4" metal pipe for air intake. It is recommended to have at least 6' to 8' of 4" metal pipe as air intake in conditioned space in cold climates (below -20°F).
- Sealed combustion burners equipped with pre and post-purge cycles for complete exhaust of all combustion products and cools oil burner nozzle for positive shut-off.
- Extreme quiet operation with sealed combustion boilers eliminates chimney and lowers total system cost.

# Cast Iron Oil Boiler

Flexible, Corrosion  
High Efficiency, All  
Full Swing Burner  
Chimney and Seal  
74,000 to 120,000 B