

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that St. Joseph's Convent

Located At 966 RIVERSIDE ST

Job ID: 2011-12-2989-ALTCOMM

CBL: 360- A-006-001

has permission to Installing Buderus G115-3

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

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: 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.



PORTLAND MAINE

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Acting Director of Planning and Urban Development
Gregory Mitchell

Job ID: 2011-12-2989-ALTCOMM

Located At: 966 RIVERSIDE ST

CBL: 360- A-006-001

Conditions of Approval:

Fire

Installation shall comply with City Code Chapter 10.

Fuel-fired boilers shall be protected in accordance with NFPA 101, *Life Safety Code*.

Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*;

NFPA 31, *Standard for the Installation of Oil-Burning Equipment*;

NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;

NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-12-2989-ALTCOMM 2012-41567-HVAC	Date Applied: 3/8/2012	CBL: 360- A-006-001	
Location of Construction: 966 RIVERSIDE ST	Owner Name: ST. JOSEPH'S CONVENT & HOSPITAL	Owner Address: 605 STEVENS AVE PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: New Energy Solutions	Contractor Address: PO Box 550, Standish, ME 04084	Phone: (207) 699-9643
Lessee/Buyer's Name:	Phone:	Permit Type: BLDG - HVAC	Zone: I-M
Past Use: Offices	Proposed Use: Same – offices – install Buderus oil burner in basement	Cost of Work: 7000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A Signature: <i>Capt. Purne 3/14/12</i>	Inspection: Use Group: Type: <i>WAC</i> Signature: <i>[Signature]</i>
Proposed Project Description: Install oil burner		Pedestrian Activities District (P.A.D.)	
Permit Taken By:		Zoning Approval	

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 informatin may invalidate a building permit and stop all work.	Special Zone or Reviews <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>03/31/12</i> <i>ABM</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:	Historic Preservation <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>ABM</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	PHONE

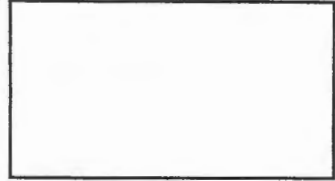
JM

Entered 3/8/12 (68)



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



2011-12-2589 - AltComm

202-841567

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 966 Riverside St Use of Building OFFICE Date 3-7-2012
 Name and address of owner of appliance Sisters of Mercy
 Installer's name and address New Energy Solutions PO Box 550 Standish ME 04084
 Telephone 699-9643

Location of appliance:
 Basement Floor
 Attic Roof

Type of Fuel:
 Gas Oil Solid

Appliance Name: Buderus G115-3
 U.L. Approved Yes No

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

IF NO Explain: _____

Chris Cote
 The Type of License of Installer:
 Master Plumber # 90012793
 Solid Fuel # _____
 Oil # MS 30002771
 Gas # _____
 Other _____

Type of Chimney:
 Masonry Lined
 Factory built RECEIVED
 Metal MAR - 8 2012
 Factory Built U.L. Listing # _____
 Dept. of Building Inspections
 City of Portland Maine
 Direct Vent
 Type _____ UL# _____

Type of Fuel Tank
 Oil
 Gas

Size of Tank 275

Number of Tanks 1

Distance from Tank to Center of Flame 30 feet.

Cost of Work: \$ 6500.⁰⁰

Permit Fee: \$ _____

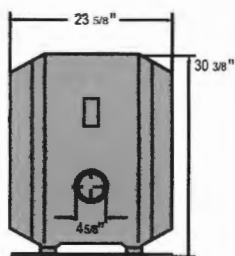
Approved _____ **Approved with Conditions** _____
 See attached letter or requirement

Fire: _____
 Ele.: _____
 Bldg.: _____

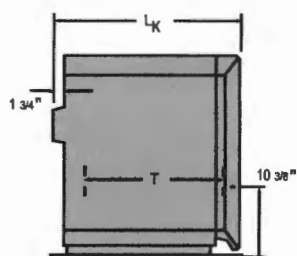
Inspector's Signature _____ Date Approved _____

Signature of Installer Chris Cote

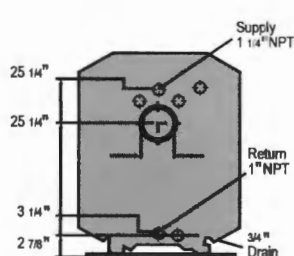
G115WS Cast Iron Residential Oil Boiler



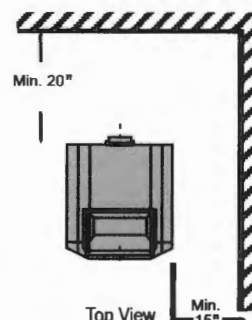
Front View



Side View



Rear View



Top View

Model	G115WS/3		G115WS/4		G115WS/5	
Performance Data	Chimney Vent	Direct Vent	Chimney Vent	Direct Vent	Chimney Vent	Direct Vent
Gross Output BTU/Hr	85,000	74,000	109,000	98,000	136,000	120,000
Net IBR BTU/Hr	74,000	64,000	95,000	85,000	119,000	104,000
Firing Rate (GPH)	0.70	0.60	0.90	0.80	1.10	1.0
AFUE	86.7 %	86.5 %	86.9 %	86.8 %	87 %	86 %
Piping Connections						
Vent Connection Size	5"		5"		5"	
Supply	1 1/4"		1 1/4"		1 1/4"	
Return	1"		1"		1"	
Physical Dimensions						
# of Sections	3		4		5	
Overall Boiler Length (L)	23 3/8"		28 3/8"		33 3/8"	
Boiler Block Length (L_K)	21 1/8"		25 3/4"		30 1/2"	
Minimum Boiler Width	18"		18"		18"	
Boiler Width	23 1/2"		23 1/2"		23 1/2"	
Minimum Boiler Height	33 1/2"		33 1/2"		33 1/2"	
Height	34 1/2"		34 1/2"		34 1/2"	
Boiler Feet Spacing	10 3/8"		16 1/8"		20 3/8"	
Fire Box Depth (T)	1 3/4"		20 1/2"		25 1/4"	
Fire Box Volume cu. ft.	1.20		1.75		2.21	
Dry Weight (lbs)	330		403		476	
Water Content (gal)	8.7		10.8		12.9	
Recommended Clearances for Ease of Serviceability						
Side	15"		15"		15"	
Rear	20"		20"		20"	

All G115WS
KP Kits Include:

L7248C1006
aquastat

Flexible oil line

Circulator

Flanges

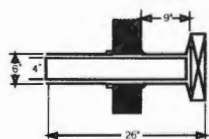


CRN# 1495.9C

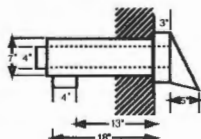
For CSA approval in
Canada you must
order a WMD-1
blocked vent switch.

Clearance Requirements

Front	Side	Rear	Top	Galvanized Vent Pipe	Flex Insulated Oil Vent	AT-4 Exhaust Only Termination	FT-4 Concentric Termination
24"	6"	18"	6"	18"	1"	1"	1"



AT-4 Aerocowl Termination



FT-4 Concentric Pipe-in-Pipe Termination

One of the two ETL certified terminations is required for use with G115WS series boilers for direct vent applications. Both terminations are "zero clearance" systems for easy and versatile applications.

G115WS direct vent installation tips

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

Use 4" metal pipe for air intake. Use at least 6' to 8' of 4" metal pipe for air intake in conditioned space in cold climates (below -20° F)

Direct vent burners are equipped with pre-and post-purge cycles for safe, complete exhaust of all combustion products, while cooling oil burner nozzle for positive shut-off.

Buderus recommends the use of Becket, Carlin and Riello. Please refer to the Buderus trade price list for models.

Buderus

Bosch Thermotechnology Corp.
50 Wentworth Avenue
Londonderry, NH 03053
Tel: (603) 552-1100
Fax: (603) 584-1681

Subject to change without notice
© 2008 Bosch Thermotechnology Corp.
Part Number 44499053 07/08

S120: Indirect Fired Hot Water Tank

The S120 is Designed to Keep You in Hot Water.

The S120, a 32 gallon indirect-fired hot water tank, has quick recovery rates to meet your hot water demands. The large heat exchanger provides an extremely high recovery rate enabling the S120 to out perform most 40 gallon tanks. Designed for easy maintenance, the S120 features **Thermoglaze** coated interior surfaces, a magnesium anode rod, and a Honeywell aquastat. Available in blue or white to complement your Buderus boiler.

- Adjustable Screw-In Bolts for Leveling of Tank
- P&T Relief Valve and Drain Valve Included

S120 Specifications	
Piping Connections	
Cold Water Inlet (in.)	¾
Hot Water Outlet (in.)	¾
Boiler Supply (in.)	¾
Boiler Return (in.)	¾
Physical Dimensions	
Capacity (gallons)	32
Height (in.)	37
Diameter (in.)	20
Shipping Weight (lbs.)	158

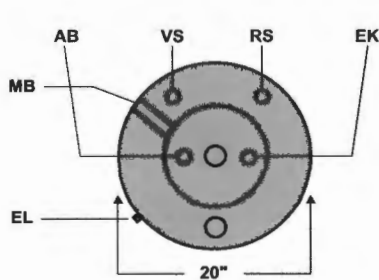
Max Tank Temperature: 230° F
 Max Tank Pressure: 150 psi
 Max Boiler Temperature: 230° F
 Max Boiler Pressure: 58 psi

S120 Performance Data				
Boiler Output BTU/Hr	First-Hour* 90° F Rise	First-Hour* 70° F Rise	Continuous† Rating 90° F	Continuous† Rating 70° F
40,000	83	98	53	68
60,000	110	133	80	103
80,000	137	167	107	137
100,000	163	200	133	171
116,000	185	249	155	219

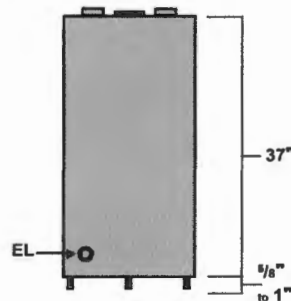
Data - Based on boiler temperature at 190° F with a 9 GPM flow through the tank coil. Use Taco 007 or equivalent circulator.

* Based on both boiler and tank up to temperature and is the sum of the stored water and generated amount of water during the first hour.

† Based on ability of tank to continually absorb heat from boiler water.



TOP VIEW



EXTERNAL VIEW



INTERNAL VIEW

- AB** DHW Outlet
- EK** DHW Inlet w/ Drip Tube
- VS** Boiler Supply
- RS** Boiler Return
- MB** Aquastat or Sensor Location
- EL** Tank Drain



- Home
- Overview
- Product Chart
- Oil Burners**
 - R35-Series
 - 40-Series
 - BF40-Series
 - R-Series
 - ModuBloc
- Gas Burners**
 - 40-Series
 - R-Series
 - ModuBloc
- Dual Fuel**
 - R-Series
 - ModuBloc



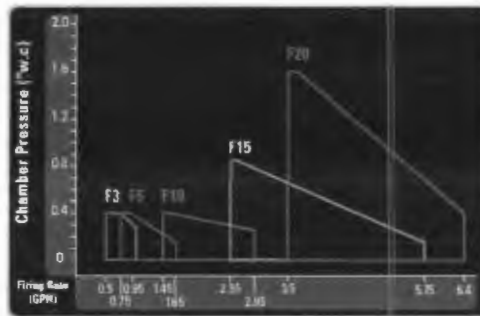
40-SERIES





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

- OVERVIEW
- DIMENSIONS
- TECHNICAL
- FEATURES

Technical Data



Model	F3	F5	F10	F15	F20
Firing Rates					
GPH	0.50 - 0.95	0.75 - 1.65	1.45 - 2.95	2.55 - 5.75	3.50 - 6.40
Btuh x 1,000	70 - 133	105 - 231	203 - 413	357 - 805	490 - 896
kW/hr	20 - 39	30 - 67	59 - 121	104 - 236	143 - 263
Usable Heating Oil	No heavier than Number 2 (Optional pump required for kerosene)				
Motor Ratings	120v 60Hz 3250rpm				
	2.2amp		4.3amp		
Pump Pressure-Range	120 - 200 psi				

40-Series oil burners are UL and CSA approved.  



PORTLAND MAINE

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Receipts Details:

Tender Information: Check , Check Number: 1056

Tender Amount: 90.00

Receipt Header:

Cashier Id: bsaucier

Receipt Date: 3/8/2012

Receipt Number: 41568

Receipt Details:

Referance ID:	5511	Fee Type:	BP-Permit
Receipt Number:	0	Payment Date:	
Transaction Amount:	90.00	Charge Amount:	90.00
Job ID: Job ID: 2011-12-2989-ALTCOMM - Renovations lower Level			
Additional Comments: 966 Riverside			

Thank You for your Payment!