DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that PETER » MITSCHELE

Located At 67 DOUGLASS ST.

Job ID: 2011-07-1684-SF

CBL: 078 - - B - 002 - 001 - - - - -

has permission to Install a Direct-Vent HVAC System

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

09/20/2011

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

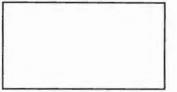
City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-07-1684-SF 2011-6523 HVAC	Date Applied: 9/13/2011		CBL: 078 B - 002 - 0	01			
Location of Construction: 67 DOUGLASS ST	Owner Name: PETER MITSCHELE		Owner Address: 240 WOODVILLE RD FALMOUTH, ME -04105			Phone:	
Business Name:	Contractor Name: WAYNE CURRY		Contractor Address: 3 KNOX ROAD, WINDHAM, ME 04062			Phone: (207) 671-5520	
Lessee/Buyer's Name:	Phone:		Permit Type: HVAC			Zone: R-5	
Past Use: Single Family Dwelling	Proposed Use:		Cost of Work: \$9,000.00			CEO District:	
Single Failing Dweining	Same: single family dwelling – to install Bosch heating system		Fire Dept:	Approved Denied N/A		Inspection: Use Group: Type: IVAL Make Gas Replation Signature:	
Proposed Project Descriptio	n:		Pedestrian Acti	vities District (P.A.D.)		/	
Permit Taken By: Lannie			<u> </u>	Zoning Approva	ıl		
 This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building Permits do not include plumbing, septic or electrial 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. 		to conform to all applicable laws of		this jurisdiction. In addition	Not in Dis Does not Requires Approved Approved Denied Date:	Date: at I have been authorized by a permit for work described in	
enforce the provision of the code(s)							
IGNATURE OF APPLICAN	T AI	DDRESS		DATE		PHONE	
ESPONSIBLE PERSON IN				DATE		PHONE	



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



Location / CBL 67 Douglass Storest Name and address of owner of appliance	Use of Building SFR Date 9/10/11 beable Elizabeth Mitrible
Installer's name and address Wayne (unray	Telephone 671-5500
Location of appliance: Basement	Type of Chimney: Masonry Lined
☐ Attic ☐ Roof	Factory built
Type of Fuel:	☐ Metal
Gas Oil Solid	Factory Built U.L. Listing #
Appliance Name: Bosch	Direct Vent
U.L. Approved Yes No	Type PV C UL#
C.E. Append = 155 = 156	24" Clearance
Will appliance be installed in accordance with the manufacture's	Type of Fuel Tank
installation instructions? Yes \(\square\) No	D Oil
	□ Gas
IF NO Explain:	
74.	Size of Tank
	Line 13 The begins
The Type of License of Installer:	Number of Tanks
☐ Master Plumber #	A BUNDONIA
□ Solid Fuel #	Distance from Tank to Center of Flame feet.
Oil #	Cost of Work: \$ 8,500
Other	Permit Fee: \$
Approved	Approved with Conditions
Fire:	 See attached letter or requirement
Ele.:	
Bldg.:	Inspector's Signature Date Approved
- · · · · · · · · · · · · · · · · · · ·	
Signature of Installer wen lung	
White - Inspection Yellow - File F	Pink - Applicant's Gold - Assessor's Copy

INVOICE

Nelson & Small, Inc.

Import · Export · Manufacturing · Distribution of World Class Products

Phone: (207) 775-5666 · Fax (207) 775-4303 · www.nelsonsmall.com

Invoice 449361 Date 07/27/11 Time

REPRINT FROM HISTORY

12:08:26 Control #: 0000004613

Bill To:

Thomas D Toohey 288 Pine Point Road Scarborough

ME 04074

Ship To:

Thomas D Toohey 288 Pine Point Road

Scarborough

ME 04074

Co/Cust No Order No Customer PO 1/0000004613 23161/00 Bosch

Ter Sls Rep Approval #

ME 16 See RGA 23160 return

Ship Via Pay Type A/R Terms

Net 30 Days

Or as sold if earlier

Item Number/Description Shipped Sell Price Total Ordered U/M FOB Description: ZWB283 1.000 1.000 3269.000 3,269.00 T EA Bosch 95k Btu Combi Boiler NG 1221800 ** difference paid 705.46 ** from order 23027 * \$2726.99 **** Pd \$2726.99 cc 7/25/11 **** Returned product 7/26 ** Mail invoice to: Peter Mitschele 240 Woodville Road Falmouth, ME 04105

INVOICE DUE: 08/26/11

Remit Payment to:

0000004613 / 449361

P.O. BOX 1420

Portland, ME 04104-1420

SUBTOTAL: 3,269.00
SALES TAX: 163.45

TOTAL: 3,432.45

DEPOSIT:

AMT DUE: 3,432.45

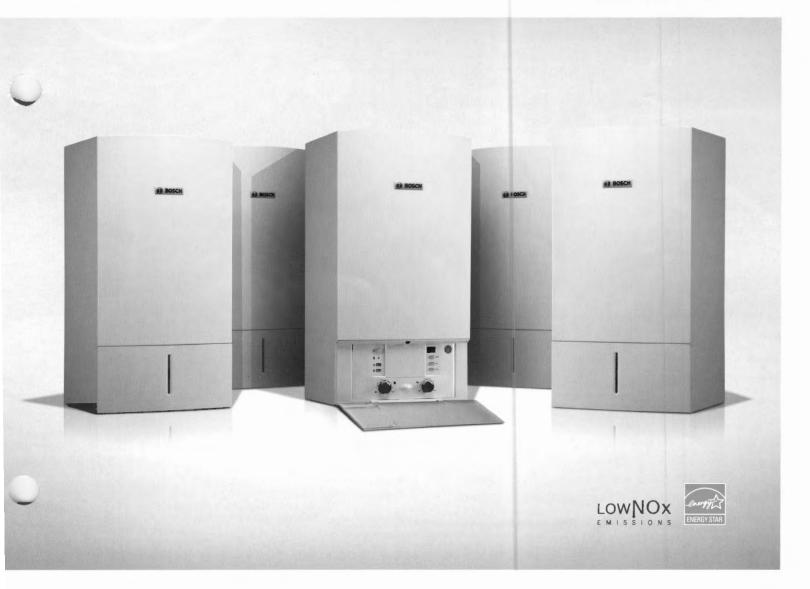
This sale is also subject to terms and conditions of a separate credit application submitted by purchaser. A $1\,1/2\%$ monthly service charge will be applied to the balance after it becomes 30 days old.



Greenstar Gas-Fired Condensing Boilers A Green Start to Space & Water Heating

Residential space and water heating boiler solutions with up to 98.7% efficiency and 57.2 to 151.6 MBH inputs.





Technical

specifications

Application	Space Heating + Carry			Space Heating Only			
Models	Greenstar Combi 100	Greenstar Combi 151	Greenstar 57	Greenstar 100	Greenstar 131	Greensta 151	
Description	ZWB28-3	ZWB42-3	ZBR16-3	ZBR28-3	ZBR35-3	ZBR42-3	
Part Number	7738100002	7713331041	7712231416	7712231415	7712231414	7712231413	
Performance Specifications				To the same			
Fuel	NG / LP	NG / LP	NG / LP	NG/LP	NG / LP	NG / LP	
Input Maximum (MBH)	100.8	151.6	57.2	100.8	131.9	151.6	
Input Minimum (MBH)	34.6	36	12.9	24.6	36	36	
DOE Heating Capacity (MBH)	89.4	134.4	50.8	89.4	116.7	134.4	
Net I=B=R (MBH)	79	117	45	79	103	117	
AFUE	96.0%	94.3%	96.1%	96.0%	96.0%	94.3%	
Low Temp Application Efficiencies	98.5%	96.8%	98.7%	98.5%	97.5%	96.8%	
DHW Flow Max (ΔT at 72°F)	2.65 GPM	4.0 GPM	-	-			
Water Volume	0.952 Gal. (3.5 L)	0.952 Gal. (3.5 L)	0.952 Gal. (3.5 L)	0.952 Gal. (3.5 L)	0.952 Gal. (3.5 L)	0.952 Gal. (3.5 L)	
Technical Data							
Weight (Without Packaging)	110.2 Lbs. (50 kg)	110.2 Lbs. (50 kg)	103.6 Lbs. (47 kg)	103.6 Lbs. (47 kg)	103.6 Lbs. (47 kg)	103.6 Lbs. (47 kg)	
Dimensions W x H x D	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"	17.4" x 33.5" x 13.9"	
Minimum Recommended Pipe Size	1"	1"	1"	1"	1"	1"	
Supply Tappings	1"	1"	1"	1"	1"	.19	
Return Tappings	1"	1"	1"	1"	1"	1"	
Domestic Cold Water Supply	3/4"	3/4"	-		•	-	
Domestic Hot Water Supply	3/4"	3/4"		-	•		
Gas Connection Size	3/4"	3/4"	3/4"	3/4"	3/4"	3/4 "	
Vent Size	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	
Vent Material	PVC / CPVC	PVC / CPVC	PVC / CPVC	PVC / CPVC	PVC / CPVC	PVC / CPVC	
Combustion Air Size	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	
High Altitude Capability	No De-Rating up to 7,000'	De-Rated	No De-Rating up to 7,000'	No De-Rating up to 7,000'	No De-Rating up to 7,000'	De-Rated	
Gas Pressure Minimum w.c.	NG 3.5" - LP 8"	NG 3.5" - LP 8"	NG 3.5" - LP 8"	NG 3.5" - LP 8"	NG 3.5" - LP 8"	NG 3.5" - LP 8"	
included Package Contents							
Al-Si Heat Exchanger	1	1	/	1	1	✓	
3 Speed Grundfos ntegrated Pump	✓	·	~	*	*	1	
ntegrated Expansion Vessel	3.17 Gal. (12 L)	3.17 Gal. (12 L)			-	-	
W200 Weather Compensation Control	1	✓	√	1	1	✓	
Heatronic III - Control PCB	1	1	✓	1	✓	1	
Hydronics Manifold Bracket with NPT Connection	*	✓	✓	*	✓	1	
Twin Pipe Flue Adapter	·	✓	✓	/	1	1	
Tank Sensor	-	-	*	· /	1	1	
System Supply Sensor	1	✓	✓		~	1	
NG / LP Conversion Kit	✓	✓	V	1	V	1	
Condensate Trap Drain Hose	4	1	4	1	1	V	

Bosch Greenstar

overview

Energy-saving & environmental features

- Aluminum-Silicon heat exchanger delivers high efficiency - up to 98.7% with low temperature applications (up to 96.1% AFUE).
- Low NOx emissions ahead of 2012 SCAQMD regulations.
- Simple, intelligent control options optimize efficiency and fuel consumption.
- ► Low electrical consumption when the boiler is in standby mode.
- ▶ Electronic ignition.
- Anti-cycle and modulation control.

Time & labor saving installation features

- All models available as NG or LP (conversion kit included).
- ▶ Hydronics manifold bracket with NPT connection.
- ▶ Robust water side PH operating levels of 4.0 8.5.*
- ► High altitude flexibility 7,000' no de-rate.

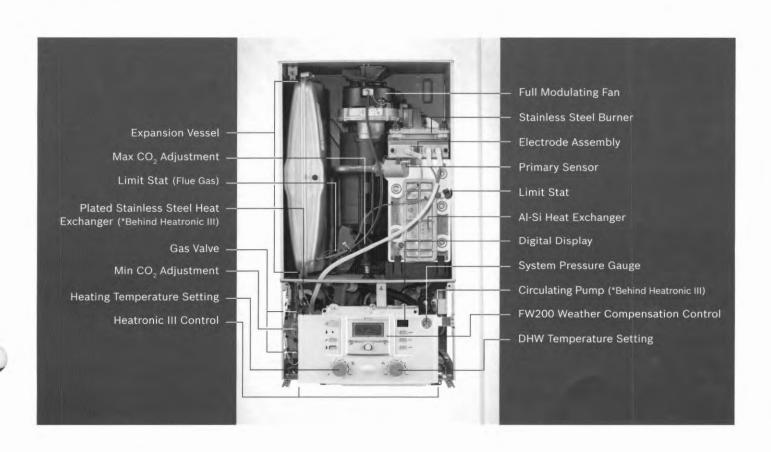
- Venting length up to 100' each way with 3" PVC pipe, up to 8 elbows.
- Venting combined length up to 81' with 2" PVC (except Bosch Greenstar 151 models).

End user comfort & convenience features

- ► Limited lifetime heat exchanger warranty.**
- ► Limited 5-year parts & labor warranty.**
- ► Special insulation ensures ultra-quiet operation.
- Compact dimensions and built-in frost protection offer flexibility for location of installation.
- ▶ ECO mode for energy saving fuel consumption.
- Exclusive safety feature keypad safety lock prevents unwanted tampering with the controls.
- ▶ Eligible for Federal Tax Credit.

*Visit www.bosch-climate.us to review the Installation Manual which contains further water quality information.

**Limited warranty. Copies of original warranties in their entirety are available upon request. Please contact your area representative.





PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis

Job ID: 2011-07-1684-SF

Located At: 67 DOUGLASS

CBL: 078 - - B - 002 - 001 - - - - -

Conditions of Approval:

Zoning

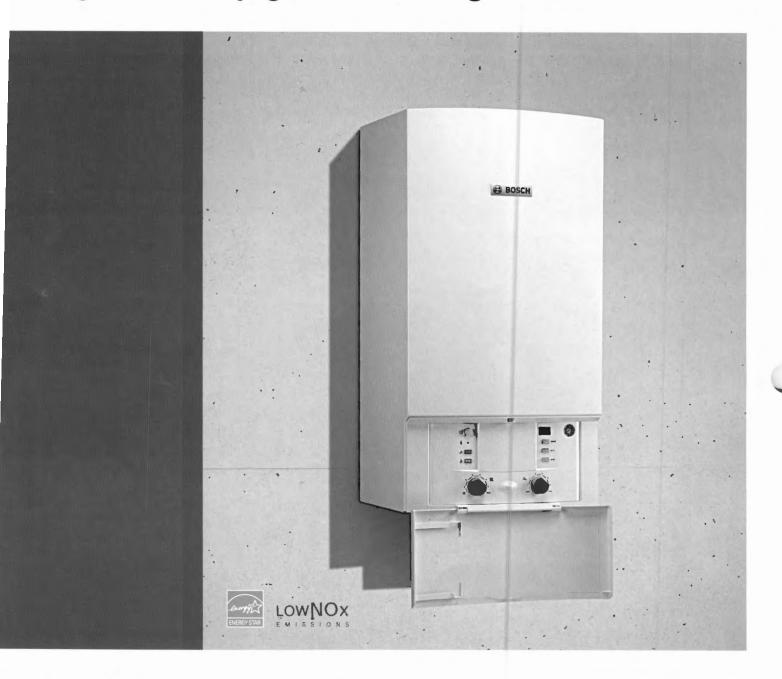
- 1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
- This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. without special approvals.
- 3. This property shall remain a single family dwelling. Any change of use shall require a separate permit application for review and approval.

Building

- The installation must comply with UL, the Manufacturers' Listing, and State of Maine Gas Regulations.
- Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
- 3. Maintain proper setback(s) from property lines/buildings and proper clearances from vertical openings when direct venting
- 4. A photoelectric Carbon Monoxide (CO) detector shall be installed in each area within or giving access to bedrooms. That detection must be powered by the electrical service (plug-in or hardwired) in the building and battery.

New for 2011! Bosch Greenstar

high-efficiency, gas condensing boilers



Efficiency with unsurpassed performance & control

This new series includes 6 compact models available in configurations ranging from 57.2 to 151.6 MBH. Energy Star® rated, these low operating cost units utilize Bosch patented condensing technology to deliver reliable performance with low emission. Bosch Greenstar boilers offer homeowners and service professionals easy access while providing a layer of security for peace-of-mind and can also be integrated with other Bosch energy efficient

products for a complete and environmentally friendly modern home.

- ▶ Ideal for detached and terraced houses, also suitable for apartments.
- Available as a space heating boiler for connection to a hot water tank.
- Available as a combi (combination) unit with integrated DHW water heating.
- ▶ Solar compatible with new control options.

Optional

accessories

Optional Accessories Not Included	FB100 Control	ISM2 Control	IPM2 Control	ICM Control	Cleaning Tool 1060	Cleaning Tool 1061
Description	Room Sensor	Solar Control Module	Pump Control Module	Cascade Control Module (4 Max)	Cleaning Brush Set	Cleaning Tool
Part Number	7719003525	7719003527	7719003526	7719003528	7719002502	7719002503
Product Image	0					

Boiler knowledge

101

What is a "combi" boiler?

A "combi" or combination boiler is a high efficiency water heater and a central heating boiler combined within one compact unit. Water is heated directly from the water main eliminating the need for a hot water storage tank. Because hot water is delivered to the taps or showers at high pressure it's very convenient and can save on your hot water costs.

What is a traditional boiler?

Regular boilers – sometimes referred to as traditional or conventional boilers – are suitable for homes that already have a traditional heating and hot water system that require a separate hot water tank. They are a good

option for any home where a large volume of stored hot water is required (homes with 3 or more bathrooms, or areas where the water pressure is low).

What is AFUE?

AFUE is a measure of how energy efficient the appliance is in its annual fuel consumption. Specifically, AFUE is the ratio of heat output compared to the total energy consumed by the boiler. Bosch Greenstar 57 models have an AFUE of 96.1%, meaning 96.1% of the energy in the fuel becomes heat for the home and the other 3.9% escapes up the chimney and elsewhere, saving money in fuel costs over the life of the boiler.

Bosch Thermotechnology Corp.

Londonderry, NH • Ft. Lauderdale, FL • Irvine, CA

General Inquiries: 1-866-642-3198 Technical Support: 1-800-283-3787 www.bosch-climate.us

Printed on Elemental Chlorine Free, FSC-certified, minimum 10% PCW paper with vegetable-based inks.

MA Board # G1-0111-226









