

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND BUILDING PERMIT



This is to certify that JAMES ISAACSON

Job ID: 2012-01-3009-HVAC

Located At 71 ST LAWRENCE ST

CBL: 016- E-023-001

has permission to Install an HVAC System (Single Family Residence).

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

01/04/2011

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 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.
- 1. Close-In: (Electrical, Plumbing, Framing)
- 2. Final Inspection

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.



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

Director of Planning and Urban Development

Job ID: 2012-01-3009-HVAC

Located At: 71 ST LAWRENCE ST CBL: 016- E-023-001

Conditions of Approval:

Building

- 1. The installation must comply with UL, the Manufacturers' Listing, and State of Maine Gas Regulations.
- 2. Separate permits are required for any electrical: plumbing, sprinkler, fire alarm, HVAC systems, 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 Carbon Monoxide (CO) alarm 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.
- 5. M1804.2.5 Direct vent terminations. Vent terminals for direct-vent appliances shall be installed in accordance with the manufacturer's installation instructions.

ALESURGAL 2012 01 3009 FILL IN AND SIG	SN WITH INK
APPLICATION	
HEATING OR POW	
	016 E023 R-6
To the INSPECTOR OF BUILDINGS, PORTLAND, ME.	
The undersigned hereby applies for a permit to install accordance with the Laws of Maine, the Building Code of the	the following heating, cooking or power equipment in City of Portland, and the following specifications:
Location / CBL 71 52 / house 52 # 10-05 Name and address of owner of appliance Robie builde	Use of Building 1.25 Date 8/22/4
Name and address of owner of appliance <u>Robie</u> but de	S JAmes ISHILS.
Installer's name and address 6460 inc	
149 Clarky Mills R.S. Hollis and	Telephone 807 1429
Description Descripti Description Description Description Description Descript	Type of Chimney: Masonry Lined
Attic D Roof	Factory built
Type of Fuel:	Metal
Gas Oil Solid	Factory Built U.L. Listing #
Appliance Name: Baki or Trigage The	Direct Vent
U.L. Approved Yes I No	Type REGENTED
we we have the first the discount of the second secon	REO 2 2 2011
Will appliance be installed in accordance with the manufacture's installation instructions? Pryes D No	Type of Fuel Tank AUG 2 2 2011 D Oil DEC 2 0
	Gas Dept. of Building Inspections
IF NO Explain:	Depirophone in laine
	Size of Tank
The Type of License of Installer:	Number of Tanks
Master Plumber #	
Solid Fuel #	Distance from Tank to Center of Flame feet.
Gas #_ PN/+ 8575	Cost of Work: \$ 5,000
Other	Permit Fee: \$ 70.00
Approved	1/3/12
Fire:	- + + the orister
Ele.:	- Mars me prodes
Bldg.:	pomito was actually ed
Signature of Installer	- nots in the system prinit was actually a received on 12/2/11.)
	Pink - Applic
	66

BAXI HEATING LUNA HT wall hung boilers

MARATHON INTERNATIONAL NORTH AMERICAN DISTRIBUTOR FOR BAXI PRODUCTS

Luna HT Boiler SUGGESTED SPECIFICATIONS

General Requirements

- Supply and install _____ (qty) wall-hung packaged high efficiency gas-fired boiler(s), with modulating sealed combustion, stainless steel heat exchanger, power vented using outside air for combustion.
- 2. Install packaged boiler(s) according to manufacturer's instructions. All work to be carried out in a neat and workmanlike manner.
- 3. Baxi Luna HT_____ (qty) packaged boiler(s), capable of burning Natural or Propane gas.
- 4. Boiler(s) shall be 90% minimum DOE efficient as required by the National Energy Conservation Act or ASHRAE 90.1.
- 5. Boiler(s) shall be capable of full electronic modulation firing.
- 6. Boiler(s) shall be manufactured by ISO 14001 and ISO 9001 registered company to conform to Section IV of the ASME Boiler and Pressure Vessel Code.
 - Stainless steel heat exchanger to be hydrostatically pressure tested and fire tested at factory in accordance with ASME requirements.
 - Maximum allowable working pressure 30 PSIG water as listed in installation manual.
 - Boiler(s) and controls to comply with applicable regulations.
 - Boiler(s) shall meet U.S. Environment Protection Agency and Department of Enc:rgy guidelines for "Energy Star"TM energy efficiency.

Product

- 1. Acceptable boiler manufacturer(s) include(s):
 - Baxi Luna HT only, as specified in previous section, part 3.
 - Other manufacturers or Baxi Luna HT boiler(s) must comply with specifying Engineer's requirements, including:
 - · Full intent of these specifications, and
 - Provide complete submittal including literature and manuals. The alternant must be similar size and footprint and have similar clearance requirements.
 - Boiler(s) shall be supplied with a valve kit and connectors to connect boiler to system piping.

- Submittal presented to Engineer at least 7 working days before bid opening for approval. Substitutions will not be permitted after the contract is awarded.
- 2. Boiler Construction

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- Boiler(s) heat exchanger must be stainless steel.
- The boiler(s) combustion chamber must be sealed
- Boiler(s) shall be supplied with a gas valve designed for full electronic modulation. The inlet (natural) (propane) pressure to the boiler gas valve shall be minimum of 7"w.c. and a maximum of 13"w.c.
- The burner shall be manufactured with stainless steel.
- The boiler shall be equipped with a blower system to expel flue gasses.
- The control system shall have an electronic display for boiler status, and boiler diagnostics.
- 3. Venting and Combustion Air
 - Boiler(s) must be capable of using outside air piped directly to boiler for combustion. Inlet and termination of these pipes must be connected to either through the roof, or sidewall terminations as recommended by the manufacturer.
 - The boiler(s) shall be direct vent.
- 4. Boiler Trim
 - All electrical components to be high quality manufacture and bear UL listing.
 - High limit control to 195 °F maximum allowable boiler water temperature.
 - Pressure gauge clearly marked for easy identification.
 - Outlet water temperature sensors.
 - Low water cut off protection.
 - ASME certified pressure relief valve, set to relive at 30 PSIG.
 - Built in freeze protection.
 - Built in Grundfos circulator.
- 5. Boiler Manuals
 - The boiler(s) shall be supplied with complete instruction manuals, including:
 - Boiler Installation Manual.
 - User's Manual.



Marathon International 1815 Sismet Road Mississauga, Ontario L4W 1P9

CITY OF PORTLAND, MAINE Department of Building Inspections
Original Receipt
Received from Gaca Drea
Location of Work 1 So Surrence
Cost of Construction \$ Building Fee:
Permit Fee \$ Site Fee:
Certificate of Occupancy Fee:
160. Total:
Building (IL) Plumbing (I5) Electrical (I2) Site Plan (U2) Other NVAC 70.
CBL: 016 E 023
Check #:
No work is to be started until permit issued. Please keep original receipt for your records.
Taken by:
WHITE - Applicant's Copy YELLOW - Office Copy PINK - Permit Copy

City of Portland, Maine - Building or Use Permit Application

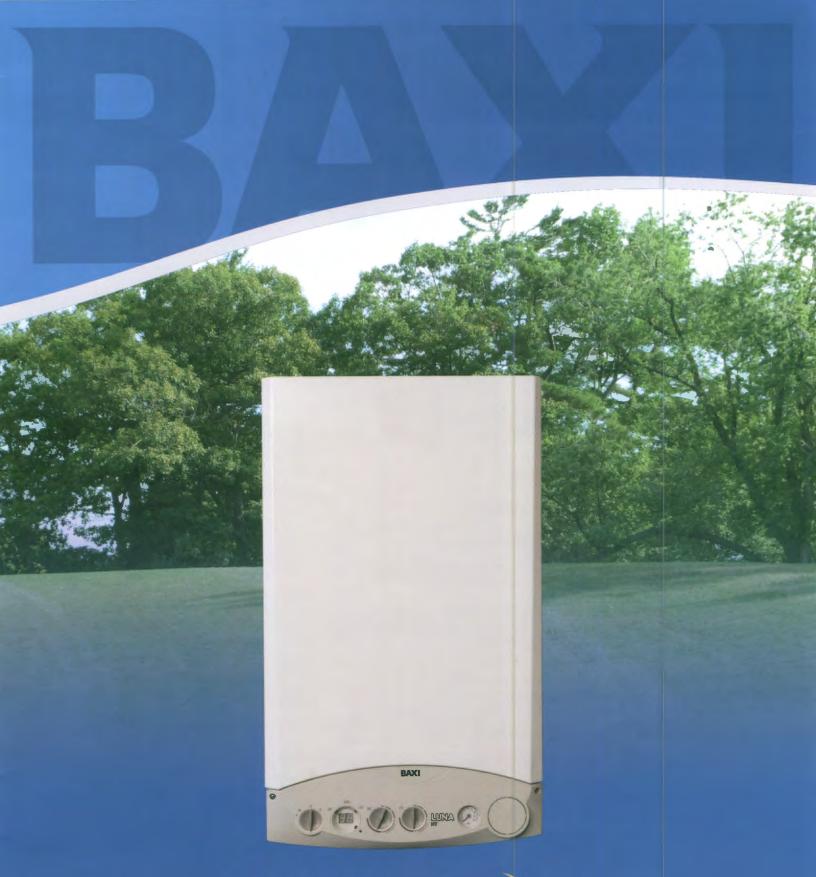
389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No: 2012-01-3009-HVAC	Date Applied: 12/22/2011 Owner Name: JAMES ISAACSON Contractor Name: Gaco, Inc. Phone:		CBL: 016- E-023-001			
Location of Construction: 71 ST LAWRENCE ST			Owner Address 22 SWIFT RD WAYNE, ME 0428	Phone: Phone: 807-1429 Zone: R-6 in-fill		
Business Name:			Contractor Adda 149 Clark Mill			
Lessee/Buyer's Name:			Permit Type: HVAC			
Past Use: Proposed Use: Single Family Dwelling Same: Single Family to install Baxi Luna heating unit		Dwelling	Cost of Work: \$5,000.00			CEO District:
			Fire Dept: Approved Denied N/A Signature:			Inspection: Use Group: R 3 Type: s B MUBEC Signature.
Proposed Project Descriptio Install Baxi Heating unit in the b			Pedestrian Activ	vities District (P.A.D.)		/ // /
Permit Taken By: Gayle			Zoning Approval			
 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. 		Special Zone or Reviews Shoreland Wetlands Flood Zone Subdivision Site Plan Maj _Min _MM Date: 7/3/12		Zoning Appeal Variance Miscellaneous Conditional Use Interpretation Approved Denied Date:	Historic Preservation Not in Dist or Landmark Does not Require Review Requires Review Approved Approved 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



BAXI LURA) HT Modulating, Condensing Wallhung Boilers

condensing boilers delive

SMART TECHNOLOGY

- Easy adjustment for natural gas or propane
- Nickel-chrome, stainless steel premix burner (AISI 316L) and primary heat exchanger, high resistance to corrosion, no internal welding, large heat exchange surface and low heat inertia
- Electronic, gradual ignition
- Fully modulating fan and calibrated venturi
- Gas valve with continuous modulation system
- Electronic 3 way diverter valve
- Gas valve has 1:1 gas/air mechanical control
- Sealed combustion

CONTROL AND SAFETY SYSTEM*

- Fully automatic self diagnostics
- Double CPU microprocessor for efficiency optimization
- Anti-freeze protection (Unit will operate at low fire until 86° F/30°C loop temperature is achieved)
- Pump protection (automatically operates for 10 seconds if system is static for 24 hours)
- 3-way valve protection (electronic communication and operation to main circuit board if static for 24 hours)
- Other built-in features:
 - Circulating pump with automatic air vent
 - Pressure relief valve
 - Expansion Tank
 - Heating circuit fill and drain valves
 - Independent heating and domestic temperature set point dials
 - Electronic temperature control NTC sensors
 - High limit switch
 - Flue limit switch
 - Flame sensing electrode
 - Low water cut-off
 - Backflow device
 - Automatic by-pass
 - Inducer fan

*Not all components are included with commercial units.

Baxi Modulo

Baxi Modulo features the Baxi Luna HT 1.330 condensing boiler atop a 21-gallon (US) stainless steel, insulated storage tank. The Modulo may also be used with the Baxi Luna 3 Comfort 1.31 standard efficiency boiler. Its sleek design and compact size $(17\frac{3}{4}" \times 21\frac{3}{4}"$ x $64\frac{1}{2}")$ makes Baxi Modulo a great addition to any space.



Combines smart looks with smart technology

/er home comfort

Baxi Luna HT condensing boilers can be combined with ...



Wall Radiators



Heated Towel Racks



Indirect-fired Tanks

BAXI



In-floor Heating



Hydronic Air Handlers

.0

Temperature Regulation Accessories

Baxi Luna HT condensing boilers can be connected to an outdoor probe to produce greater comfort, higher efficiency and lower energy consumption. It can also be supplied with the remote controller and room thermostat which allows remote programming, setting and control of up to 50 parameters. A Baxi accessory made by Siemens, this is a smart control – meaning it assesses the R-value of a home or business space, and adjusts the rate of gas consumption accordingly.

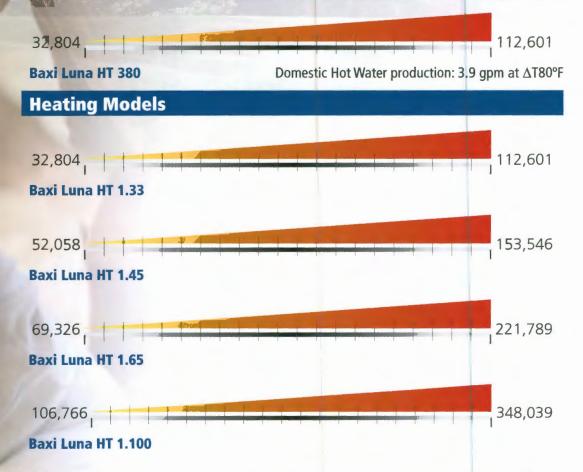
Outdoor Probe

Remote Controller

condensing boilers 90% 80% less co less Nox

Heat Output Modulation Range (BTU/hr)

Combination Heating and Domestic Hot Water Model



The Baxi Luna HT series features five modulating, condensing boilers that can generate up to 98% efficiency, providing heat for an entire home or office from 600 to 6,000 square feet.

Baxi technology regulates the modulation of the burner flame – a key contributor to Baxi high energy efficiency. Also, Baxi condensing boilers utilize energy from condensing water vapor in the exhaust gases, thereby optimizing fuel consumption.

Baxi Luna HT Technical Notes

Multiple Baxi Luna HT condensing boilers can be cascaded, sharing a common venting system with a single exterior penetration. A five-unit Baxi Luna HT 1.65 application, for example, generates a combined maximum heating output of 1.1 million BTU/hr.



		Residential		Commercial			
Description		Luna HT 380	Luna HT 1.33	Luna HT 1.45	Luna HT 1.65	Luna HT 1.100	
			arnar	aron	ur.no- 1	0+10-1	0100 0
Rated heat input		BTU/hr	126,376	126,376	167,262	241,600	379,127
Reduced heat input		BTU/hr	37,192	37,192	55,618	73,361	112,980
Rated heat output	Rated heat output		112,601	112,601	153,546	221,789	348,039
Reduced heat output		BTU/hr	32,804	32,804	52,058	69,326	106,766
Sealed combustion chambe	Sealed combustion chamber		yes	yes	yes	yes	yes
Ignition			electronic	electronic	electronic	electronic	electronic
Anti-frost device on heating	g circuit		yes	yes	yes	yes	yes
Maximum pressure on heat	ting circuit	psi	30	30	30	30	30
Regulation of heating	- high temp	°F	86/180	86/180	86/180	86/180	86/180
circuit water temperature	- low temp	°F	86/113	86/113	86/113	86/113	86/113
Dimensions:	Height	in	30.04	30.04	37.40	37.40	37.40
	Width	in	17.71	17.71	23.62	23.62	23.62
	Depth	in	13.58	13.58	18.35	18.35	25.62
Coaxial/Dual flue tube in		in	2.36-3.93/2.36	2.36-3.93/2.36	3.15-4.92/3.15	3.15-4.92/3.15	4.33-6.30/4.33
Net weight	Net weight Ibs		102	102	141	158	215
Gas type			NG/LP	NG/LP	NG/LP	NG/LP	NG/LP



DISTRIBUTED BY:

www.wallhungboilers.com



Marathon International Exclusive North American Distributor for Baxi Products 1815 Sismet Road, Mississauga Ontario L4W 1P9, Canada

info@wallhungboilers.com

Baxi is ISO 9001 certified for quality management, OHSAS 18001 for health and safety management and ISO 14001 for environmental management.

The Company assumes no responsibility for any possible contents mistakes, and reserves the right to make changes in products, due to technical or commercial demands, at any time without notice.

BAXI LUNA) HT Wallhung

An ideal green solution for all heating and domestic hot water needs

Environmentally friendly

- Emits 90% less CO and 80% less NOx
- Can cut utility bills in half
 Can cut greenhouse gas
- emissions by more than half

Compact space saver

- Approved for closet installation
- Up to 98% efficient (92,5% AFUE)
- Endless hot water on demand

Quietest boiler on the market

- Fully modulating fan
- Direct vent
- Automatic self diagnostics

Baxi Field Test Results

Building A Better Future

Marathon International, Baxi's exclusive North American distributor, performs extensive field tests in the marketplace. A 2007 field test in Ontario, Canada shows impressive results. The test involves installation of a Baxi Luna combination heating and domestic hot water boiler, together with a hydronic air handler. The test site is a 2,000 square-foot home built in 1984, with well insulated windows installed seven years ago. Here are some highlights:

Endless hot water: Entire family of five finds hydronic heating to be much more comfortable and more even than previous forced air furnace. The separate, on-demand DHW loop on the boiler means morning arguments about running out of hot water for showers are a thing of the past.

Gas bills cut in half: Family is enjoying fuel consumption savings and lower gas bills totaling up to 58% a month less than last year. Previous 60-gallon tank called for heating for 15 minutes out of every hour, 24/7.

Environmental benefits: Household expects to cut fuel consumption in half, saving 1,500 cubic meters (530 therms) of natural gas annually. That equates to a greenhouse gas emissions reduction of about 2.6 tonnes of CO_2 a year – the same amount of CO_2 not produced by parking a car for six months, or the amount of CO_2 removed by planting trees on one acre of land.

For more information, visit www.wallhungboilers.com/news