

City of Portland, Maine - Building or Use Permit Application

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

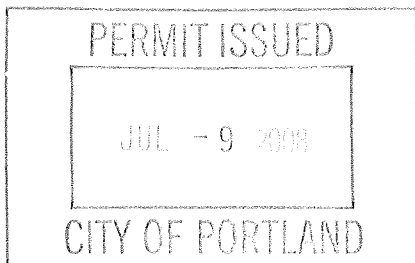
Permit No: 08-0847	Issue Date:	CBL: 132 I008001
-----------------------	-------------	---------------------

Location of Construction: 3 MATTHEWS ST	Owner Name: LITTLEFIELD FARM LLC	Owner Address: 153 ANDOVER ST	Phone:
Business Name:	Contractor Name: Richard Profeno	Contractor Address: 58 Christy Rd Portland	Phone 2077974953
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Past Use: 2 unit Duplex	Proposed Use: 2 unit Duplex - install a Weil - McLain direct vent natural gas boiler in Basement	Permit Fee: \$180.00	Cost of Work: \$16,000.00	CEO District: 5
Proposed Project Description: install a Weil - McLain direct vent natural gas boiler in Basement		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: Type:	
		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: 07/10/2008	Zoning Approval		
-----------------------------	---------------------------------	------------------------	--	--

<ol style="list-style-type: none"> 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 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:	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 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:
---	---	---	---



Scanned

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.

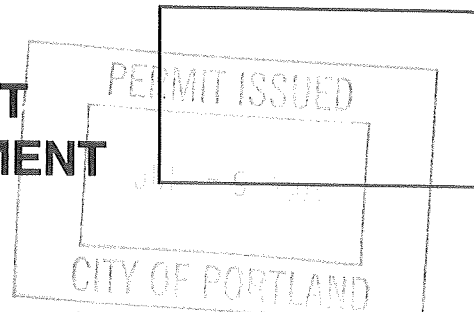
SIGNATURE OF APPLICANT _____ ADDRESS _____ DATE _____ PHONE _____

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE _____ DATE _____ PHONE _____



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



132-I 8

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 3 MATTHEWS ST Use of Building 2 Family Rts Date 7-10-08
Name and address of owner of appliance LARRY STROUVANT

Installer's name and address RICHARD A. ROSEWOOD 58 CHRISTY RD
PORTLAND, ME Telephone 671-4608

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: WEL-McLain

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 # _____
- Gas # PNT 702
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____

Direct Vent
Type PVC UL# _____

Type of Fuel Tank

- Oil
- Gas NATURAL

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 16000.00

Permit Fee: \$ 180

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Inspector's Signature _____

Date Approved _____

Signature of Installer Richard A. Rosewood

WEIL-McLAIN

Ultra

with

PhD

PRECISION
HYDRONIC
DATA

technology®

CONDENSING HIGH EFFICIENCY GAS BOILER

RATINGS - (5 SIZES)

80 MBH

105 MBH

155 MBH

230 MBH

310 MBH

ALL WITH 20-100%
MODULATION

Ultra

INNOVATIVE

Innovative combination of appearance, intelligence and technology.

Ultra

HIGH EFFICIENCY

Over 92% AFUE and up to 98% for low temperature applications.

Ultra

ATTRACTIVE

The Ultra boiler features a new attractive design for installation in any setting.

Ultra

INTELLIGENT

Features PhD Technology - an intelligent system that delivers Precision Hydronic heating and hot water needs while maximizing efficiency by measuring and responding to the Data parameters of your heating system.

Ultra

HIGH TECHNOLOGY

Cast mono block aluminum heat exchanger. Gas valve, blower and venturi technology that constantly maintains optimal air and fuel ratio at all firing rates.



SERIES 2

PhD Technology - Precision Hydronic Data

An intelligent system that delivers Precision Hydronic heating and hot water needs while maximizing efficiency by measuring and responding to the Data parameters of your heating system.

PhD Technology is built around proven key components that when combined make the Ultra the most advanced, reliable and efficient boiler available.

The key components include...

A negative regulated gas valve that Precisely delivers gas to the boiler;

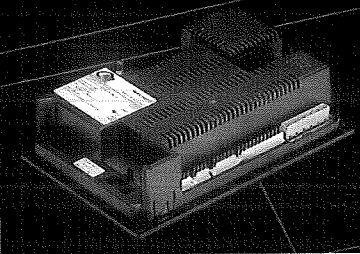
A variable speed motor that matches combustion output to your heating needs;

A venturi mixing body that Precisely mixes air and gas providing higher efficiency;

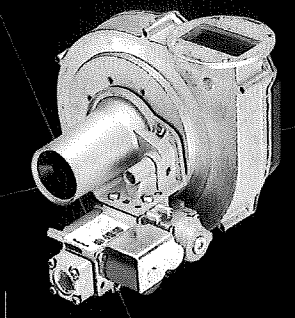
System intelligence with the Ultra Control Module which maintains proper, efficient and Precise Hydronic heat through inputs of all system Data;

A cast aluminum mono block heat exchanger designed to operate in low temperature condensing applications;

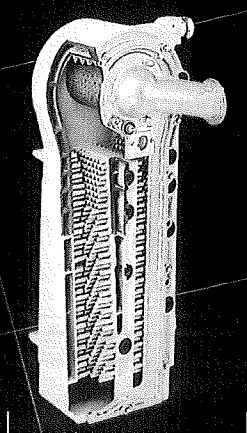
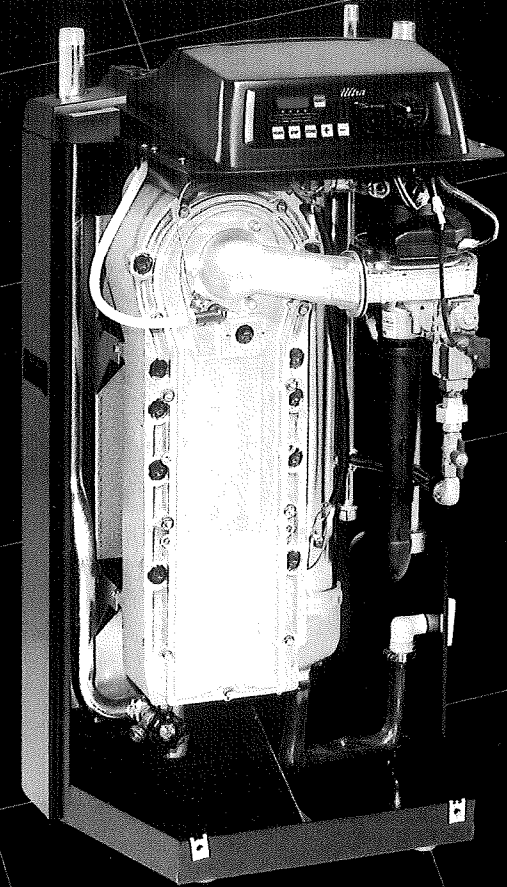
Pre-mix stainless steel burner designed for perfect firing rate modulation, efficiency, clean combustion and quiet operation.



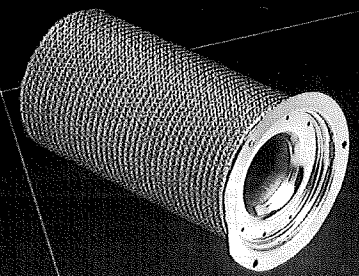
The Ultra Control Module, a microprocessor electronic control, responds to signals from the room thermostat, supply water temperature sensor, return water temperature sensor, flue temperature sensor, domestic hot water aquastat, summer/winter switch and outdoor temperature sensor. The module automatically adjusts blower speed and gas flow rate to modulate boiler firing rate to closely match boiler output for space heating or DHW heating demand.



The blower, gas valve and venturi all work in concert to provide the proper fuel and air mixture for precise combustion. The blower pulls in air and gas through the venturi. The air and gas mix inside the blower and are pushed into the burner for combustion. The gas valve senses suction from the blower, allowing gas to flow only if combustion air is flowing and proper combustion is achieved.



The cast aluminum heat exchanger features a mono block design. This low mass heat exchanger heats faster, providing heat to the system quicker. This aluminum block has been specifically designed to work in low return temperature applications in condensing mode.

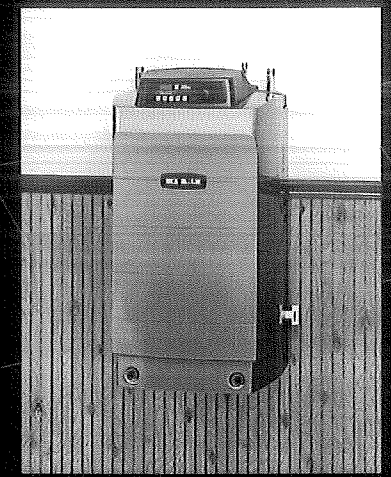


High grade stainless steel burner with woven steel fiber mesh. Burner uses pre-mixed air and gas providing for a 20% to 100% modulating firing rate. The Ultra burner features long life, quiet operation, high efficiency and cleaner combustion for low NOx applications.



The 4-digit electronic display with programming buttons and data port make entering and receiving information very easy. There are two levels of information: User Level and Contractor Level. The User Level is used to: Turn space and DHW heating "on" or "off"; set space heating temperature and boiler circulator operation; display soft and hard lockout codes for troubleshooting. The Contractor Level is accessible through the use of a special code that is entered through the front panel or with a computer interface control kit and a laptop computer. This access can be used to customize the Ultra boiler to each specific job application. Adjustments can be made for high altitude, outdoor reset, boost timing and much more...

WEIL-McLAIN *Ultra*



Weil-McLain Ultra Boiler

The Weil-McLain Ultra boiler has been designed for easy installation. The Ultra boiler requires minimal clearance and minimal floor space, and the same boiler can be used in floor standing or wall hung applications.

Water and gas piping is conveniently arranged for connection at the top or bottom of the boiler. In fact, when using the boiler in a floor standing application, all boiler connections are on the top of the boiler except for the condensate drain.

The electrical components have been pre-wired and labeled on separate line voltage and low voltage terminal strips. Terminal strips are provided for quick and easy field wiring.

Venting has been simplified by using PVC for both exhaust and combustion air. Slide the PVC into the top outlet flue pipe adaptors and tighten the restraining ring. No messy sealants required. You can even achieve vent runs up to the equivalent of 100 feet.

The Ultra comes with a side mounted service receptacle on a separate circuit for use with a condensate pump, service equipment or service light.

The Ultra boiler is lightweight compared to a conventional boiler. Side jacket handles are provided for easy handling along with four adjustable boiler feet for easy placement and leveling.

For fast and easy installation, combine an Ultra PLUS Indirect-Fired Water Heater with your Ultra boiler installation. Ultra PLUS water heaters come in three sizes:

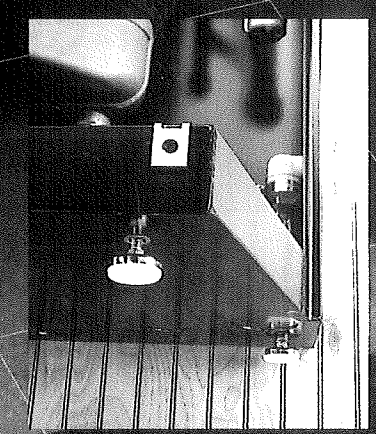
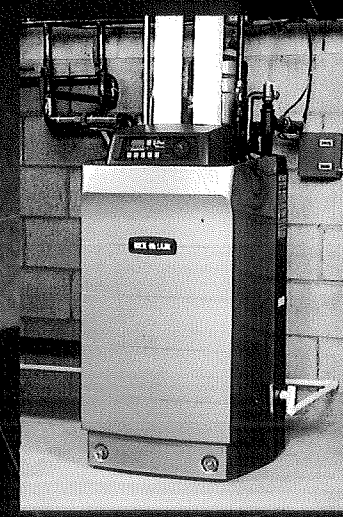
Ultra PLUS 40

Ultra PLUS 60

Ultra PLUS 80

Combined with an Ultra boiler, the Ultra PLUS water heater provides more domestic hot water when you need it, while taking advantage of the extremely high efficiency of the Ultra boiler. A standard feature of the Ultra boiler control module is domestic hot water priority control, providing quicker response time for domestic hot water demands, along with faster recovery times for the hot water tank.

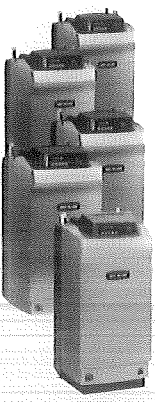
The perfect match for an Ultra boiler is an Ultra PLUS Indirect-Fired Water Heater.



Ultra High Efficiency And Environmentally Friendly

All Ultra boilers feature AFUE efficiencies of 92.0 - 93.0%. These are some of the highest in the industry, however, Ultra boilers, when used in common low temperature applications have annual efficiencies of 95.0%. The Ultra boiler exceeds all requirements of the Department of Energy's...

...is certified by So... (Rule 1146.2) in Ca...



Ultra

with **PhD** PRECISION HYDRONIC DATA technology®

CONDENSING HIGH EFFICIENCY GAS BOILER

20-100% Modulation



SERIES 2

Ultra 80	Ultra 105	Ultra 155	Ultra 230	Ultra 310
Part No.	Part No.	Part No.	Part No.	Part No.

STANDARD EQUIPMENT

- Factory Tested
- Limited 15 Year Heat Exchange Warranty
- Ultra Homeowner Protection Plan with
 - 5 years Parts and Labor
- Cast Aluminum Block
- 30 PSI ASME Relief Valve
- Drain Valve
- Stainless Steel Burner (80, 105 & 310) with woven steel fiber mesh (155 & 230)
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Gas/Air Ratio Venturi with Air Silencer
- Negative Pressure Regulation Gas Valve
- 50 VA Transformer
- Combination T&P Gauge
- Outlet Water Temperature Sensor
- Return Water Temperature Sensor
- Flue Gas Temperature Sensor
- Outdoor Temperature Sensor
- 12 AMP 110 V Circ. Relay (310 only)

PACKAGED BOILER

-Natural Gas field convertible to LP as standard equip. except *Ultra 80*

Natural Gas	383-500-400	383-500-402	383-500-403	383-500-404	383-500-405
Propane Gas	383-500-401	NA			
Taco Pump	007		0011		

OPTIONAL EQUIPMENT

Wall Mounting Kit	389-900-180			NA	
Alarm Control Kit	383-500-080				
Indirect-Fired Water Heaters	Matching Ultra PLUS 40, 60 and 80 Water Heaters Available				

RATINGS

	80 MBH	105 MBH	155 MBH	230 MBH	310 MBH
CSA Input (Maximum)	16 MBH	21 MBH	31 MBH	46 MBH	62 MBH
CSA Input (Minimum)	71 MBH	94 MBH	139 MBH	207 MBH	*289 MBH
DOE Heating Cap.	62 MBH	81 MBH	123 MBH	183 MBH	252 MBH
Net I=B=R	93.0%	92.0%	93.0%	92.8%	*93.3%
DOE AFUE	98.1%		98.0%		95.6%
Weil-McLain Low Temp Seasonal Efficiency	Boiler return water temp=90°F and boiler outlet water temp=110°F				

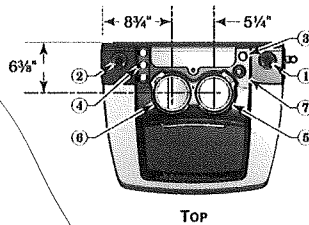
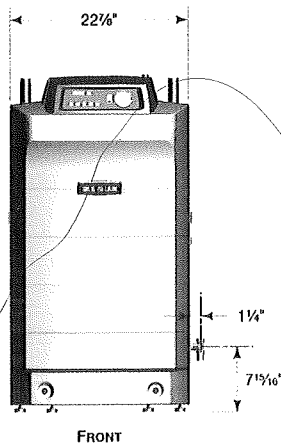
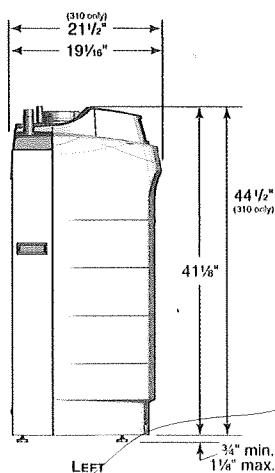
*Note: 310 ratings are gross output and combustion efficiency.

DATA

Vent Size / Material	3" PVC/ABS		3 or 4 in. PVC/ABS	4 in. PVC/ABS
Combustion Air Size	3 in.		3 or 4 in.	4 in.
Water Volume	.95 Gal.	1.07 Gal.	1.17 Gal.	2.1 Gal.
Approx. Ship. Weight	149 lbs.	154 lbs.	193 lbs.	204 lbs.

DIMENSIONS

Supply Tapping	1"	1-1/4"
Return Tapping	1"	1-1/4"
Gas Connection Size	1/2"	3/4"
Crate Dimensions	53-1/2"L x 27"W x 23-1/2"H	56"Lx27"Wx27"H



- TOP
- Supply Connection
 - Return Connection
 - Low Voltage Wire Opening
 - Electrical Entrance Openings
 - Vent Connection
 - Air Connection
 - Gas Connection

Ultra Control Module with

- Digital Display & Data Port
- Ignition Control
- High Limit & Modulating Temp Control
- Low Water Protection
- Outdoor Reset
- DHW Priority
- Two Pump Controls (Heating & DHW)

Taco Boiler Circulators:

- 1" flanges (80 & 105) Taco 007
- 1" & 1-1/4" flanges (155 & 230) Taco 0011
- 1-1/4" & 1-1/2" flanges (310) Taco 0011

Complete Jacket Assembly with

- Fully Removable Front Jacket Cover
- Adjustable Boiler Legs
- Sidewall Vent/Air Termination Kit
- Line & Low Voltage Pre-wired Terminal Strips
- On/Off Power Switch
- Line Voltage Service Receptacle
- Condensate Trap with Drain Tee Assembly
- Propane Conversion Orifice (All except Model 80)

Ultra boilers are low NOx Certified by the South Coast Air Quality Management District (Rule 1146.2) in California.

In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specifications without notice.



Locate our Sales Offices by visiting our website:

www.weil-mclain.com

Weil-McLain
500 Blaine Street
Michigan City, IN 46360-2388