FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT
HEATING OR POWER EQUIPMENT

PERMIT ISSUED
DEC 19 2005
CITY OF PORTLAND
05-1811

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 392 · A - 14 Use of Building residential Date 12/

Name and address of owner of appliance Casco Bay Development LLC
218 Hope Ave Portland, ME

Installer's name and address Portland Airconditioning Inc
40 Mansa Libby Road Scarborough ME Telephone 207.885.1256

Location of appliance:
Basement ☐ Floor
☐ Attic ☐ Roof

Type of Fuel:
☐ Gas ☒ Oil ☐ Solid

Appliance Name: weil 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 # JY3001|9165
☐ Gas #
☐ Other

Type of Chimney:
☒ Masonry Lined
Factory built
☐ Metal
Factory Built U.L. Listing #
☐ Direct Vent
Type UL#

Type of Fuel Tank
☒ Oil
☐ Gas

Size of Tank 275 Gallon

Number of Tanks 2

Distance from Tank to Center of Flame 24 **feet.**

Cost of Work: $ 2,400.00

Permit Fee: $

Approved

Fire:

Approved with Conditions

☐ **See** attached letter or requirement

Signature of Installer

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

UltraOil

American ingenuity. ULTRA results.

Features:

Weil-McLain designed and manufactured 3-pass cast iron high efficiency heat exchanger.

Powered by Beckett NX burner with Exclusive Weil-McLain designed burner cover for clean, quiet operation.

Optional AFM Advanced Features Module available – Provides indoor/outdoor reset, multi-temp control, DHW priority and more…

Sleek, innovative jacket design with integrated hinged pod for easy access to control tray. Pod fully conceals factory-supplied components and wiring.

Factory tested and assembled cast iron boiler sections with limited lifetime warranty.

Reversible swing away burner door providing full access to flue-ways.

Captured seal design, a Weil-McLain exclusive for 35 years.

Chimney vent or direct vent with no external draft inducer needed

Includes:

EnviraCOM™ ready Honeywell L7248 electronic oil aqua-stat for diagnostic information at your finger tips

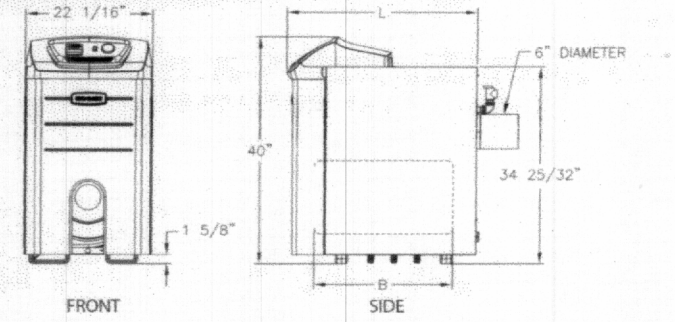
Factory-wired terminal strip eliminates wiring guesswork, reduces additional material costs, installation time and easily accepts additional controls for high limit and low water cut-offs

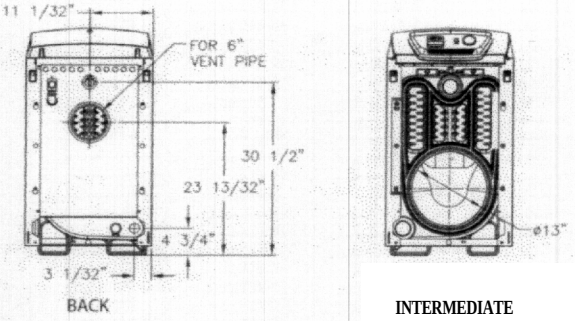
Standard equipment includes service switch, temperature/pressure gauge, boiler drain, barometric damper and 30 psi relief valve (boiler tested for 50 psi max working pressure)

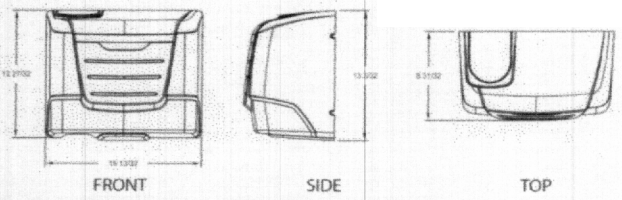
Available 5 or 10 year Home Owner Protection Plan

WEIL-McLAIN

Weil-McLain • 500 Blaine Street
Michigan City, IN 46360 • 219-879-6561







Specifications

Model	I=B=R Burner Capacity	CSA Input	DOE Heating Capacity	Net I=B=R Ratings	DOE Seasonal Efficiency AFUE	Draft Loss Through Boiler
#	gph	MBH	MBH	MBH	%	(inches wc)
UO-3	0.80	112	98	85	86.5	.000
UO-3	1.00	140	122	106	86.5	.020
UO-4	1.20	168	146	127	86.2	.025
UO-5	1.40	196	172	150	86.5	.040

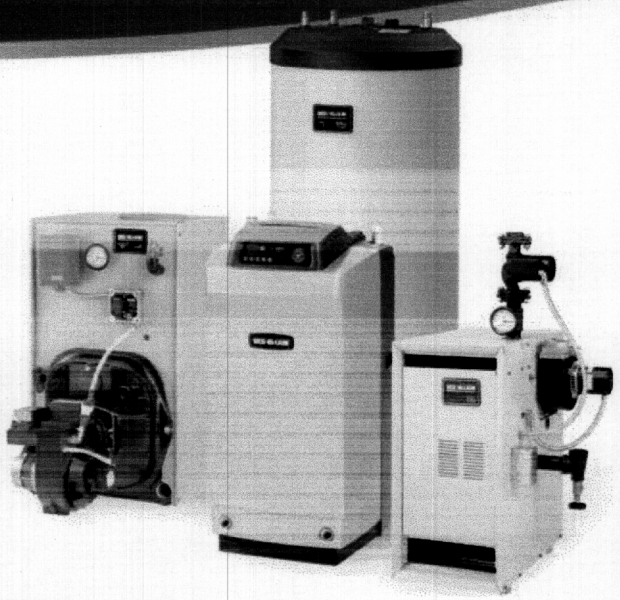
* Pending Certification

Dimensions

Model #	Supply Tapping	Return Tapping	B	L	Approx Shipping Wgt
UO-3	1 ½"	1 ½"	16	25	636
UO-3	1 ½"	1 ½"	16	25	636
UO-4	1 ½"	1 ½"	20	29	737
UO-5	1 ½"	1 ½"	24	33	852

For 125 years, Weil McLain has shaped an industry and exceeded the expectations of both homeowners and heating contractors - and the legacy continues. Introducing Weil-McLain's Next Generation of Oil Boiler ...the Ultra Oil

Welcome to the Family



3-pass cast iron heat exchanger with reversible, full-size swing out access door for easy cleaning and service. Sealed by Weil-McLain's Elastomer seals. 35 Years and going strong.

Advanced Feature Module (AFM)* a low cost innovative control system that provides indoor/outdoor reset, low temperature mixing, DHW priority, stage firing for multiple boiler systems, and much more.

Powered exclusively by Beckett NX Oil Burner for high performing, clean & quiet operation.

Flexible direct or chimney venting.

Add a Weil-McLain Plus Water Heater for abundant hot water.

* optional equipment

WEIL-McLAIN

Ultra Oil

American ingenuity. ULTRA results.

Available Fall 2005

Earning The Trust of Generations.

Visit weil-mclain.com to see the entire family of Weil-McLain products.

Weil-McLain • 500 Blaine Street • Michigan City, IN 46360 (219) 879-6561

WEIL-McLAIN

Ultra

with PhD PRECISION HYDRONIC DATA technology

Ultra Boiler

SUGGESTED SPECIFICATIONS

I. **General Requirements**

A. Furnish and install __1__ (qty) packaged, modulating, sealed combustion, power-vented, high efficiency gas-fired boiler(s) with cast aluminum heat exchangers that use outside air for combustion.

B. Install packaged boiler unit(s) according to manufacturer's installation instructions. All work to be done in a neat and workmanlike manner.

C. Weil-McLain __1__ (quantity) Ultra-__100-3__(size), packaged boiler(s) capable of burning natural or propane gas.

D. Boiler(s) shall have I=B=R Hydronics Institute gross output at 100% fire rate __112__ MBH per boiler.

E. Boiler(s) shall be 92.8% minimum DOE efficient as required by National Energy Conservation Act or ASHRAE 90.1.

F. Boiler shall be capable of full modulation firing with a turn down of up to 5 to 1

G. Boiler(s) shall be manufactured by ISO 9001 registered company to conform to Section IV of the ASME Boiler and Pressure Vessel Code.

1. Individual cast aluminum mono block to be fire tested and hydrostatically pressure tested at factory in accordance with ASME requirements.
2. Maximum allowable working pressure 30 PSIG water as listed on the rating label.

H. Regulatory Requirements

1. Boiler(s) shall meet or exceed the SCAQD (South Coast Air Quality District of California) Low Nox emission requirement of 40NG/J.
2. Boiler(s) and controls to comply with applicable regulations.
3. Boiler(s) shall meet U.S. Environmental Protection Agency and Department of Energy guidelines for "Energy Star" energy efficiency.

II. **Product**

A. Acceptable boiler manufacturer(s) include(s):

1. Weil-McLain only, as specified in Part I, Paragraph C.
2. Other manufacturer or other Weil-McLain boiler(s) must comply with specifying engineer's requirements, including:
   (a) Full intent of these specifications, and
   (b) Provide complete submittal including literature, manuals, and wiring diagrams, fuel piping diagrams, and list of similar installations. The alternate must be of similar size and footprint, piping configuration, clearance requirements and heating surface.
   (c) Submittal presented to engineer at least seven working days before bid opening for approval. Substitutions are not permitted after contract is awarded.

B. Boiler Construction

1. Boiler(s) heat exchanger:
   (a) Cast aluminum mono block heat exchanger.
2. Boiler(s) main components:
   (a) The combustion chamber will be sealed and located at the top of the mono block casting which will be of counterflow design, to assure that sediment and any lime that might form will fall to the bottom, away from the crown sheet area.

(b) Boiler(s) shall be supplied with a gas valve designed with negative pressure regulation (fan suction "pulls" gas through valve rather than gas pressure "pushing" gas through valve). This enables the boiler to operate in a safe condition at a derated output, even if the inlet gas pressure should drop to as low as 4 inches W.C. The inlet (natural) (propane) gas pressure to the boiler gas valve should be a minimum of 4" W.C. and a maximum of 13" W.C. If inlet gas pressure exceeds 13" W.C., a 100% lock-up type gas pressure regulator of adequate size must be installed in gas supply piping and adjusted to prevent pressure in excess of 13" W.C.

(c) The burner shall be premix combustion type, made with stainless steel and a woven metal fiber outer covering providing a wide range of modulating firing rates.

(d) The boiler shall be equipped with a variable speed blower system, capable of modulating the boiler firing rate.

(e) The boiler shall be equipped with a device capable of controlling the air/fuel ratio through a 5 to 1 turndown ratio.

(f) The control system shall have an electronic display for boiler set-up, boiler status, and boiler diagnostics.

C. Venting and Combustion Air

1. 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 manufacture.
2. The boiler shall be direct vent using Schedule 40 PVC, ABS or CPVC.

D. Boiler Trim

1. All electrical components to be high quality manufacture and bear UL label.
2. Water boiler(s) controls furnished:
   (a) High limit temperature control (190 degrees F maximum allowable boiler water temperature).
   (b) Combination pressure-temperature gauge. Gauge dial clearly marked and easy to read.
   (c) ASME certified pressure relief valve, set to relieve at 30 PSIG.
   (d) Flue gas, outlet water temperature, and return water temperature sensors.
   (e) Low water protection.
   (f) Built-in freeze protection.
   (g) 0011 Taco circulator.

E. Boiler Manuals

1. The boiler(s) shall be provided with complete instruction manuals, including:
   (a) Boiler Installation Manual.
   (b) User's Manual.
   (c) Gas Conversion Supplement.
   (d) Venting Supplements and Instructions.
   (e) Wall Mount Instructions.