

**City of Portland, Maine - Building or Use Permit Application**

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

Permit No: 03-0185	Issue Date:	CBL: 314 A004001
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Location of Construction: 583 Warren Ave	Owner Name: Peter & Sue Bouchard	Owner Address: 583 Warren avenue	Phone:
Business Name:	Contractor Name: Avery Services, Inc.	Contractor Address: 7 Thomas Drive Westbrook	Phone 2077728687
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: B4

Past Use: Office Space	Proposed Use: Office Space	Permit Fee: \$30.00	Cost of Work: \$30.00	CEO District: 1
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>N/A</i> Type: <i>3/26/03</i>	

Proposed Project Description: Instal Gas Heating System in Attic Area/Direct Vent	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
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: gad	Date Applied For: 03/11/2003	<b>Zoning Approval</b>
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<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>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..</li> </ol>	<b>Special Zone or Reviews</b> <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: <i>OK 3/14/03</i>	<b>Zoning Appeal</b> <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:	<b>Historic Preservation</b> <input checked="" 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: <i>[Signature]</i>
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**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.

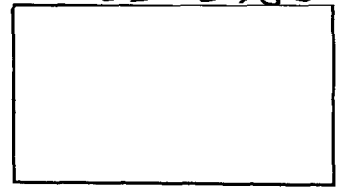
SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



FILL IN AND SIGN WITH INK

02-5104

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



314 A004

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 583 WARREN AVE Use of Building INSURERS OFFICES Date 3/11/03

Name and address of owner of appliance PETER & SUE BUCHANAN

Installer's name and address Avelly Services, Inc  
7 Thomas Drive - Westbrook, Me 04092 Telephone 207-772-8087  
FAX 207-574-0933

**Location of appliance:**  
 Basement  Floor  
 Attic  Roof

**Type of Fuel:**  
 Gas  Oil  Solid

**Appliance Name:** ULTRA BURNER  
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 # PNT1431  
 Other \_\_\_\_\_

**Type of Chimney:**  
 Masonry Lined  
Factory built \_\_\_\_\_

Metal  
Factory Built U.L. Listing # \_\_\_\_\_

Direct Vent  
Type \_\_\_\_\_ UL# \_\_\_\_\_

**Type of Fuel Tank**  
 Oil  
 Gas

\*Customer Hiring Gas Supplier  
**Size of Tank** \_\_\_\_\_

**Number of Tanks** \_\_\_\_\_

**Distance from Tank to Center of Flame** \_\_\_\_\_ feet.

30.00

Approved

Approved with Conditions

Fire: [Signature]  
Ele.: [Signature]  
Bldg.: [Signature]

See attached letter or requirement

**Signature of Installer** Douglas C. Conway

# PROPOSAL

243

**AVERY SERVICES, INC.**  
7 Thomas Drive  
WILSHIREDDON, MAINE 04092  
(207) 772-8587

FAX (207) 874-0933

TO: Timothy W. Brown  
223 Fort Hill Road  
Gorham ME 04038

PHONE	839-3660 (Fax Is Same)	DATE	3/6/03
JOB NAME / LOCATION	Peter & Sue Bouchard Office Bldg. - HVAC System Upgrades 583 Warren Ave. - Portland, ME		
JOB NUMBER	DCA-	JOB TITLE	

We hereby submit specifications and estimates for:

Avery Services, Inc. is pleased to quote as requested on the modifications of your existing electric Heating Systems to a gas fired/Hydro Air System. Scope of work to include:

- Supply & install an Ultra gas fired boiler with direct vent (out through sidewall ) in attic mechanical area.
- Supply & install water circulator pump, HW coils, piping, 3 way zone valves & controls for the Hydro Air System ( 1 coil for each of the 3 split systems, installed in the ductwork).
- Supply & install gas piping from (2) gas supply systems (gas tanks, meter/regulators by others) to the new rooftop unit & boiler as per our discussion, up to 100 sq. ft. max.
- Supply low voltage wiring & controls for the system.
- Pump down existing 2nd floor refrigeration system & abandon the existing air handler as discussed, extend refrigerant piping to the new fan coil located in the attic mechanical area.
- Supply & install a Carrier 40 FKA fan coil & reconnect to existing refrigerant piping from the abandoned fan coil.
- Supply & install PVC condensate piping on new fan coil - tie into the existing system.
- Supply & install new galvanized metal (insulated) duct system & flex/pipe runnouts to ceiling diffusion on new fan coil for the 2nd floor. Start up & test.

**EXCLUSIONS:** Structural, carpentry, soffiting, power wiring, air balance, painting, overtime labor, fire dampers, fire systems, adequacy of existing systems.

**We Propose** hereby to furnish material and labor - complete in accordance with the above specifications, for the sum of:  
Twenty Thousand Three Hundred Sixty Six and 00/100 Dollars dollars (\$) 20,366.00

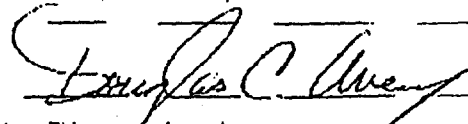
Payment to be made as follows:

**25% Upon acceptance - Progress billing/net 10 days - Balance on completion**

**If payment is not made as outlined above, a service charge of 2% per month on the overdue balance plus all reasonable costs of collection, including attorney's fees will be paid.**

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation insurance.

Authorized Signature



Note: This proposal may be withdrawn by us if not accepted within

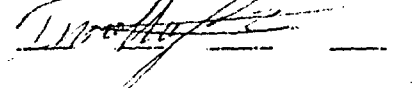
Thirty days.

**Acceptance of Proposal** - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature



Signature



Date of Acceptance: \_\_\_\_\_

**AVERY SERVICES, INC.**  
 7 Thomas Drive  
 WESTBROOK, MAINE 04092  
 (207) 772-8687  
 FAX (207) 874-0933

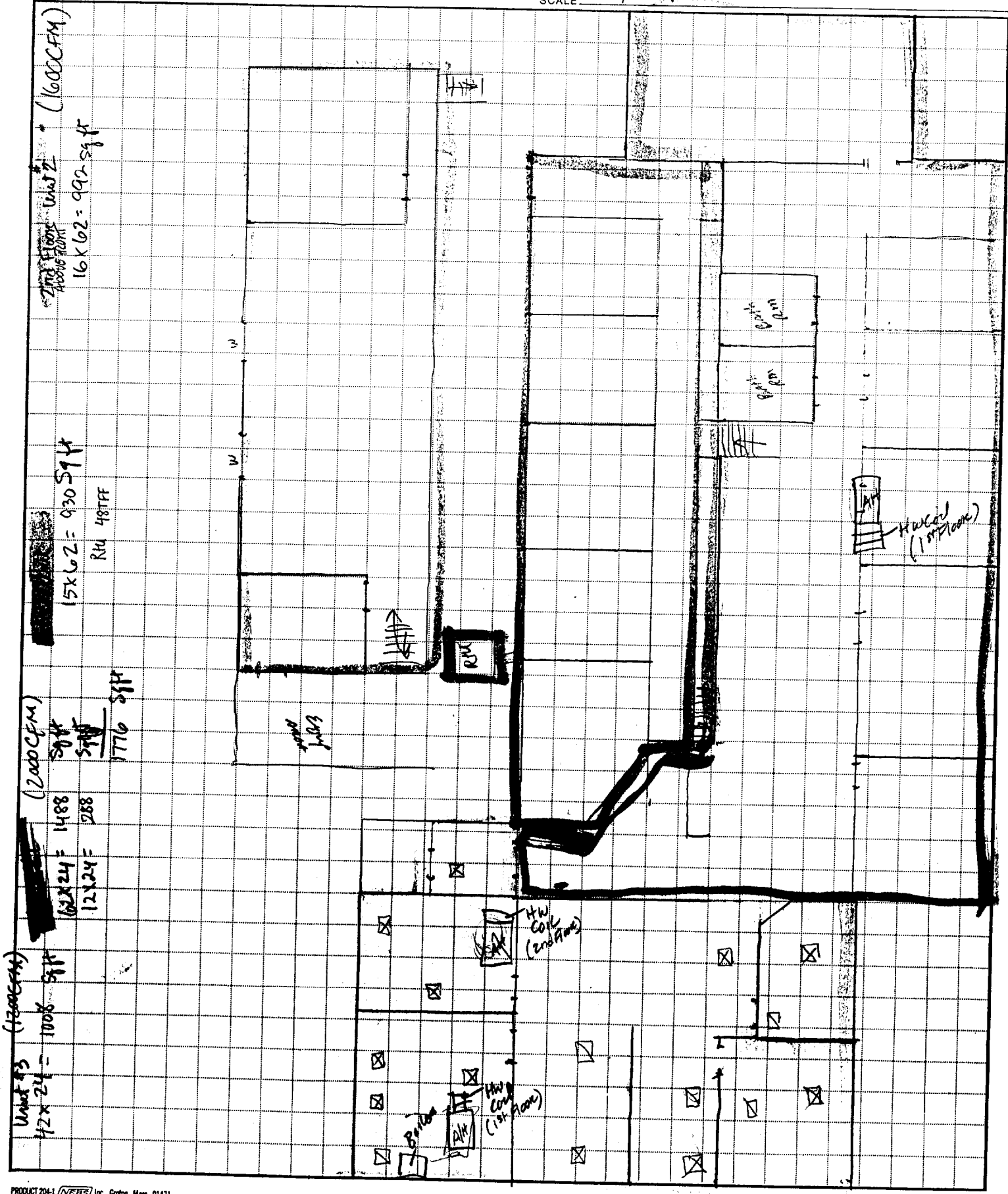
JOB PETER & SUE BOUCHARDO

SHEET NO. 583 WARREN HSE OF

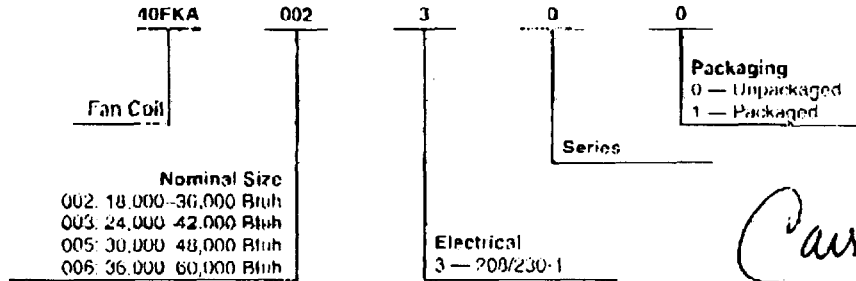
CALCULATED BY \_\_\_\_\_ DATE \_\_\_\_\_

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

SCALE 3/32" = 1'



# Model number nomenclature



*Carrier Air Handler*



REGISTERED  
QUALITY  
SYSTEM



As an ENERGY STAR® Partner, Carrier Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

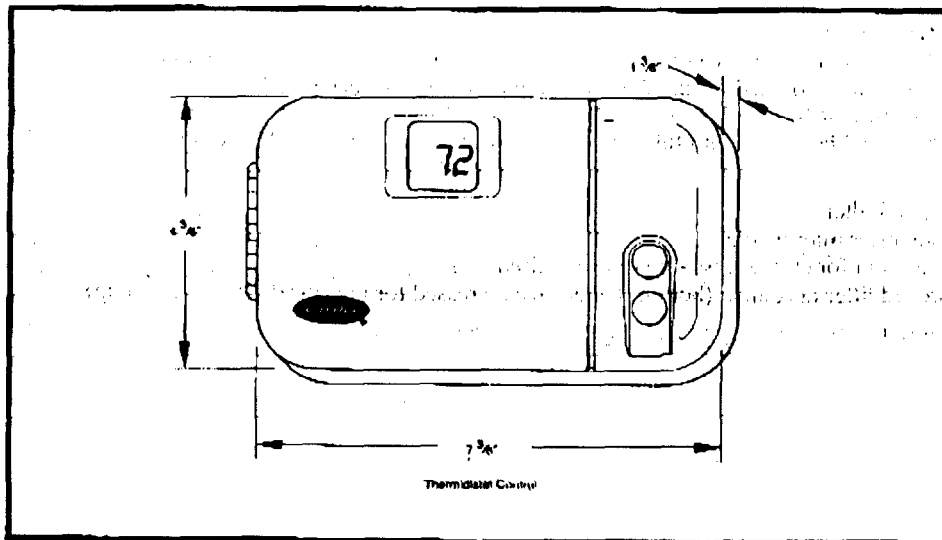


CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH AHRI.

## Physical data

UNIT SIZE	002	003	005	006*
SHIPPING WEIGHT (Lb)	132	151	169	204
REFRIGERANT	R-22			
Metering Device	TXV†			
TXV SIZE	3 Ton	5 Ton	5 Ton	5 Ton
COIL Type	A	Slope	A	A
Rows—Fins/in.	3-14			
Face Area (Sq Ft)	3.46	3.46	5.93	7.42
FAN Air Discharge	Uplow, Downflow, Horizontal			
CFM (Nominal Ctg/Htg)	525 / 470 700 / 630 875 / 785 1050 / 945	700 / 630 875 / 785 1050 / 945 1225 / 1100	875 / 785 1050 / 945 1225 / 1100 1400 / 1260	1050 / 945 1225 / 1100 1400 / 1260 1750 / 1575
MOTOR HP (SCM)	1/2	1/2	1/2	3/4
FILTER SIZE (In.)	21-1/2 X 16-3/8	21-1/2 X 19-7/8	21-1/2 X 19-7/8	21-1/2 X 23-5/16

\* Modular Units  
 † Fan coil units with TXV must have a start capacitor and relay for single-phase outdoor units with reciprocating compressor.  
 See outdoor unit pressure literature.







# Ultra

with **PhD** PRECISION HYDRONIC DATA technology®

## CONDENSING HIGH EFFICIENCY GAS BOILER

155 & 230 Max. MBH  
 with 20-100% Modulation



<b>Ultra 155</b>	<b>Ultra 230</b>
Part No.	Part No.

**PACKAGED BOILER - Natural Gas (field convertible to Propane Gas)**

With Taco 0011	383-500-000	383-500-010
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**OPTIONAL EQUIPMENT**

Wall Mounting Kit	389-900-180
AM3 Alarm Control Kit	383-500-080
Indirect-Fired Water Heaters:	Matching Ultra PLUS 40, 60, & 80 Water Heaters Available

**RATINGS**

	<b>Ultra 155</b>	<b>Ultra 230</b>
CSA Input (Maximum)	155 MBH	230 MBH
CSA Input (Minimum)	31 MBH	46 MBH
DOE Heating Cap.	139 MBH	207 MBH
Net I=B=R	123 MBH	183 MBH
DOE AFUE	93.0%	92.8%
Low Temp Applications Annual Efficiency*	98.0%	98.0%

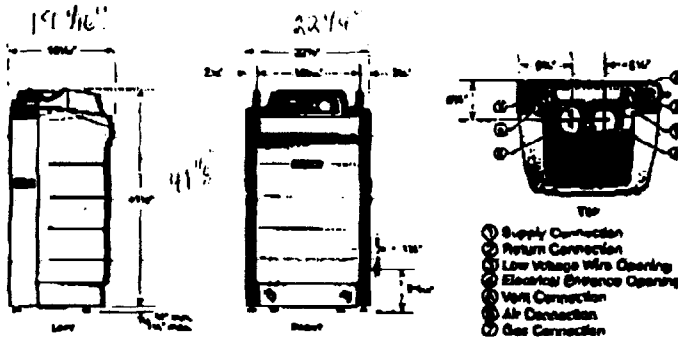
\* Boiler return water temp = 90°F and boiler outlet water temp = 110°F

**DATA**

	<b>Ultra 155</b>	<b>Ultra 230</b>
Vent Size / Material	3 in. PVC	3 or 4 in. PVC
Combustion Air Size	3 in.	3 or 4 in.
Water Volume	1.17 Gal	1.57 Gal
Approx. Shlp. Weight	193 lbs.	204 lbs.

**DIMENSIONS**

	<b>Ultra 155</b>	<b>Ultra 230</b>
Supply Tapping	1 in.	
Return Tapping	1 in.	
Gas Connection Size	1/2 in.	
Crate Dimensions	53-1/2" L x 27" W x 23-1/2" H	



**STANDARD EQUIPMENT**

- Factory Tested
- Limited 15 Year Heat Exchanger Warranty
- Ultra Homeowner Protection Plan with 5 years Parts & Labor
- Cast Aluminum Block
- 30 PSI ASME Relief Valve
- Drain Valve
- Stainless Steel Burner with woven steel fiber mesh
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Gas/Air Ratio Venturi with Air Silencer
- Negative Pressure Regulation Gas Valve
- 50 VA Transformer
- Comb. T&P Gauge
- Outlet Water Temp. Sensor
- Return Water Temp. Sensor
- Flue Gas Temp. Sensor
- Outdoor Temp. Sensor
- Ultra Control Module
  - With Digital Display
  - Ignition Control
  - Operating Control
  - High Limit Protection
  - Low Water Protection
  - Outdoor Reset
  - DHW Priority
  - Two Pump Controls (Heating & DHW)
- Taco 0011 Boiler Circulator
- Shipped separately with 1" & 1-1/4" Ranges
- Complete Jacket Assembly with Fully Removable Front Jacket Cover
- Adjustable Boiler Legs
- Vent/Air Termination Plate
- Vent Termination Bird Screen
- Line & Low Voltage Pre-wired Terminal Strips
- On/Off Power Switch
- Line Voltage Service Receptacle
- Condensate Trap with Drain Tee Assembly
- Propane Conversion Orifice
- Automatically adapts for high altitude (derate 4% per 1000 ft. altitude)

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](http://www.weil-mclain.com)

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

