

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that FAYETTE SQUARE LIMITED PARTNERS

Located At 638 CONGRESS ST

Job ID: 2012-06-4298-HVAC

CBL: 045-A-003-001

has permission to Replace existing boilers with 4-850,000 BTU gas fired MOD CON Boilers/DHW direct vent system provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes 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

Fire Prevention Officer

[Signature] 7/16/12

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.**

Final inspection at completion of installation

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.



PORTLAND MAINE

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

Acting Director of Planning and Urban Development
Gregory Mitchell

Job ID: 2012-06-4298-HVAC

Located At: 638 CONGRESS ST

CBL: 045- A-003-001

Conditions of Approval:

Fire

1. Installation shall comply with City Code Chapter 10.
2. Fuel-fired boilers shall be protected in accordance with NFPA 101, *Life Safety Code*.
3. Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*;
4. NFPA 54, *National Fuel Gas Code*;
5. NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*;
6. NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;
7. NFPA 70, *National Electrical Code*, and the manufacturer's published instructions.

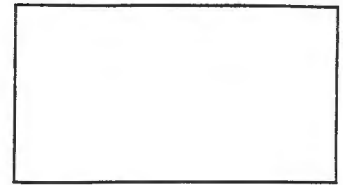
Building

1. The installation must comply with the State of Maine Gas Regulations.
2. The appliance and venting shall be installed in accordance with the UL listing, manufacturer's specifications, and NFPA 211.
3. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



B 2012-06-4298-AVAC

Entire 6/20/12



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 638 Congress street Use of Building RENTAL Date 6/18/12
 Name and address of owner of appliance 638 CONGRESS ST. PATRIOT LLC LA Fayette Square
Portland, ME 04101
 Installer's name and address PATRIOT MECHANICAL LLC P.O. BOX 787
GORHAM, ME 04038 Telephone 839-9500

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: MDD COV

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 2357
- Other _____

Type of Chimney:

- Masonry Lined
- Factory built _____

- Metal
- Factory Built U.L. Listing # _____

Direct Vent
Type PVC UL# _____

RECEIVED

JUN 20 2012

Dept. of Building Inspections
City of Portland Maine

Type of Fuel Tank

- Oil
- Gas

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ ~~268,600~~ 208,000

Permit Fee: \$ ~~2,110.00~~ 2100.00

Approved

Fire: _____
Ele.: _____
Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer [Signature]



PORTLAND MAINE

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

Receipts Details:

Tender Information: Check , Check Number: 92448
Tender Amount: 2150.00

Receipt Header:

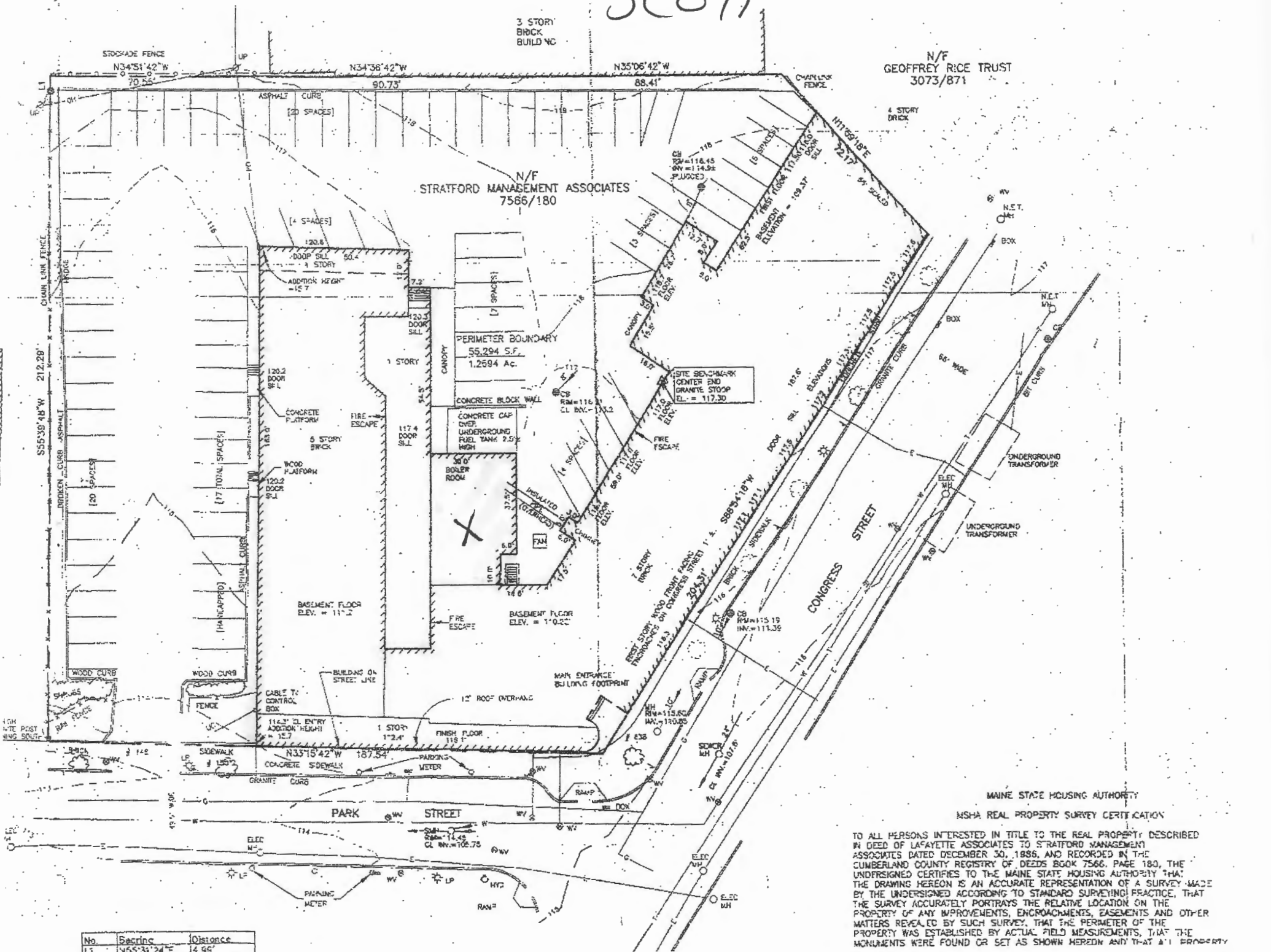
Cashier Id: bsaucier
Receipt Date: 6/20/2012
Receipt Number: 45178

Receipt Details:

Referance ID:	6970	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	2100.00	Charge Amount:	2100.00
Job ID: Job ID: 2012-06-4298-HVAC - MOD CON Boiler system			
Additional Comments: 638 Congress			

Referance ID:	6971	Fee Type:	BP-HRAD
Receipt Number:	0	Payment Date:	
Transaction Amount:	50.00	Charge Amount:	50.00
Job ID: Job ID: 2012-06-4298-HVAC - MOD CON Boiler system			

SCOTT



3 STORY
BRICK
BUILD NO

N/F
GEOFFREY RICE TRUST
3073/871

N/F
STRATFORD MANAGEMENT ASSOCIATES
7566/180

4 STORY
BRICK

PERIMETER BOUNDARY
55,294 S.F.
1,2694 Ac.

SITE BENCHMARK
CENTER END
GRANITE STOP
E.L. = 117.30

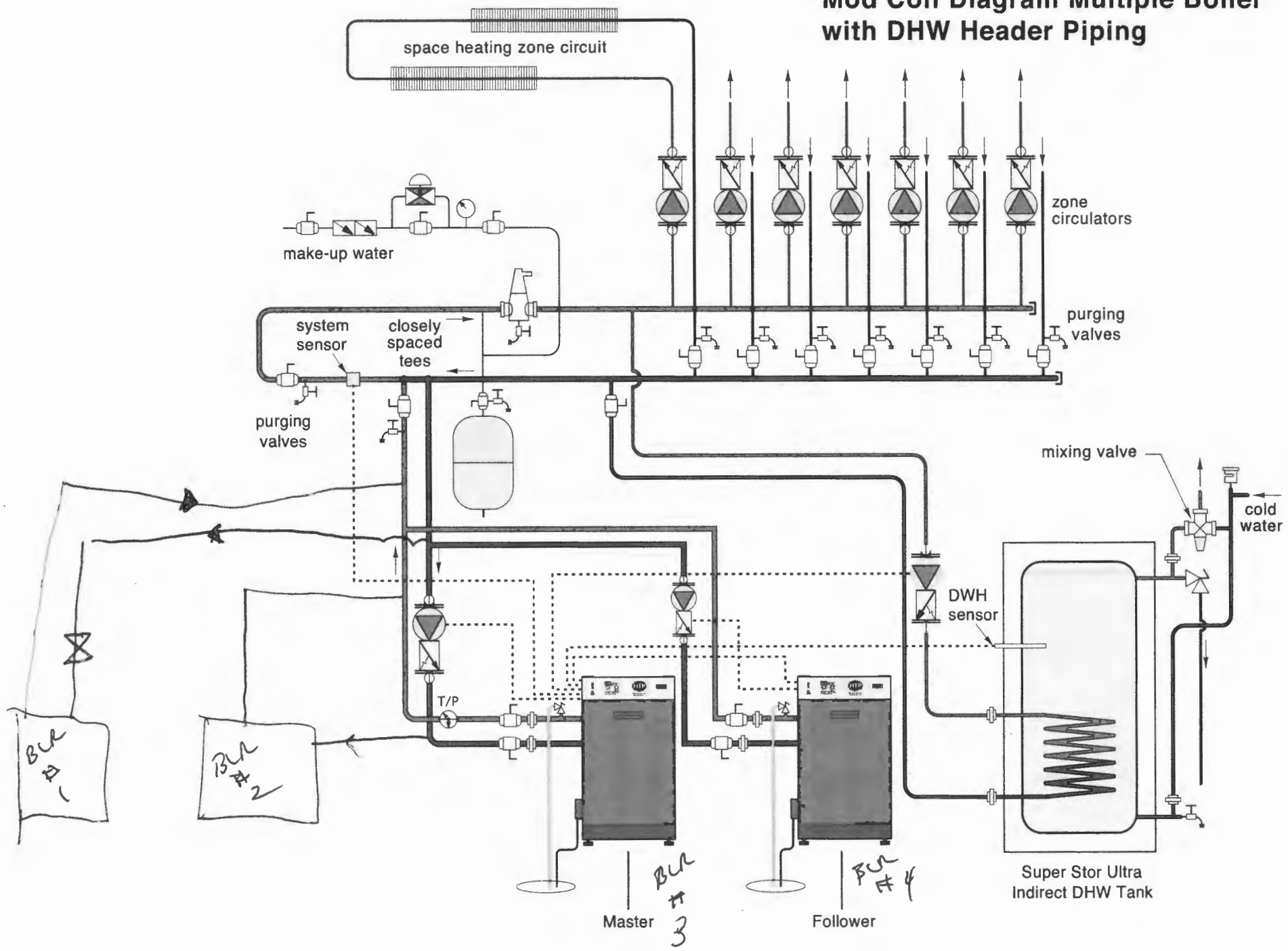
MAINE STATE HOUSING AUTHORITY
MSHA REAL PROPERTY SURVEY CERTIFICATION

TO ALL PERSONS INTERESTED IN TITLE TO THE REAL PROPERTY DESCRIBED IN DEED OF LAFAYETTE ASSOCIATES TO STRATFORD MANAGEMENT ASSOCIATES DATED DECEMBER 30, 1886, AND RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS BOOK 7566, PAGE 180, THE UNDERSIGNED CERTIFIES TO THE MAINE STATE HOUSING AUTHORITY THAT THE DRAWING HEREON IS AN ACCURATE REPRESENTATION OF A SURVEY MADE BY THE UNDERSIGNED ACCORDING TO STANDARD SURVEYING PRACTICE, THAT THE SURVEY ACCURATELY PORTRAYS THE RELATIVE LOCATION ON THE PROPERTY OF ANY IMPROVEMENTS, ENCROACHMENTS, EASEMENTS AND OTHER MATTERS REVEALED BY SUCH SURVEY, THAT THE PERIMETER OF THE PROPERTY WAS ESTABLISHED BY ACTUAL FIELD MEASUREMENTS, THAT THE MONUMENTS WERE FOUND OR SET AS SHOWN HEREON AND THAT ALL PROPERTY

No.	Bearing	Distance
LT	465°34'24" E	14.95'

Plumbing

Mod Con Diagram Multiple Boiler with DHW Header Piping





M

**Advanced Heating
& Hot Water Systems**

Mod Con Stainless Steel

An Intelligent Design that

Hydronic Heating with 9

Stainless Steel Heat Exchanger

MOD CON Construction Features

Combustion System

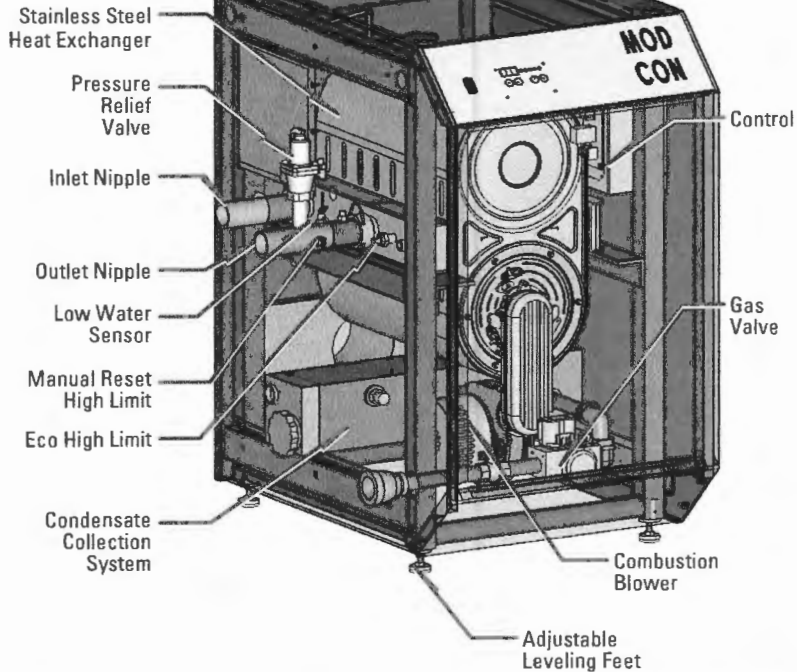
- 94% Thermal Efficiency
- Modulating Burner with 5 to 1 turn down
- Whisper Quiet Operation
- Low NOx Operation
- High Grade Inconel Burner
- Reliable Spark Ignition
- Gas Valve (Tested to UL, FM, CSA Standards)

Heat Exchanger

- All Stainless Steel Construction
- No Gaskets, Welded Construction. ASME Approved
- 150 PSI Relief Rated
- Easy to Service

Integrated Control System

- Built-in sequencer for up to 8 boilers
- Digital display with LED status indicators
- Integrated Control allows only the amount of heated energy required.



- Outdoor sensing with Indirect priority, allows for greater energy savings and comfort
- Built in Low water cut off with additional manual reset high limit switch
- Multiple Pump outputs – Boiler Pump – System Pump – Indirect Pump
- 24 volt monitor for system safeties
- Dual flame sensing (Flame probe / Spark Ignition Probe)

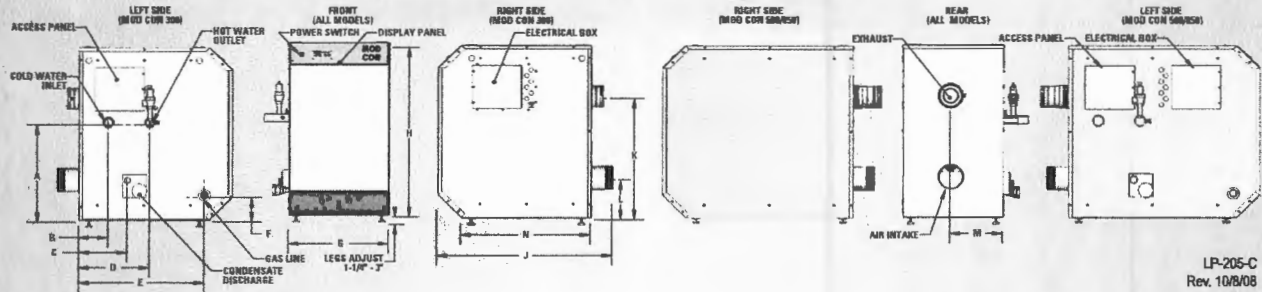
MOD CON Additional Features

- Superior Condensate Collection System (Patent Pending) Easy to service with overflow protection
- PVC – CPVC – Stainless Steel Venting
- Vents up 200 feet combined
- Double Stack units for double the output in small foot print
- Adjustable Legs
- Direct Vent Sealed Combustion
- Models available for Natural or LP Gas
- Easy access to wiring and field service of combustion heat exchanger
- Zero clearance to combustibles
- Low water cutoff standard equipment
- High limit manual reset
- Removable front cover allows easy access to burner assembly
- Zero clearance to all combustible surfaces.
- Factory installed AGA/ASME rated relief valve.
- PC monitoring for history – system operation (optional)
- Self diagnostic electronic control with digital readout to monitor system parameters.

MOD CON Optional Equipment

- System Sensor (Part # 7250P-324)
- Indirect Sensor (Part # 7250P-325)
- 4" Stainless Steel Outside Termination Vent Kit (V2000)
- 6" Stainless Steel Outside Termination Vent Kit (V3000)
- High and Low Gas Pressure Switch Kit with Manual Reset (Part # 7350P-600)
- U.L. 353 Compliant Low Water Cut-Off Interface Kit with Manual Reset (Part # 7350P-601)
- Alarm System (Part # 7350P-602) (to monitor any failure)
- Stacking Kit (Part # 7350P-603)
- PC Interface Cable (Part # 7250P-320)
- Boiler Caster Kit (Part # 7350P-604)
- Mod Con Condensate Neutralizer (Part # 7350P-611)
- Flow Switch Kit (Part #7350P-605 Mod Con 500/850, Part #7350P-606 Mod Con 300)

MOD CON Dimensional Information



LP-205-C
Rev. 10/8/08

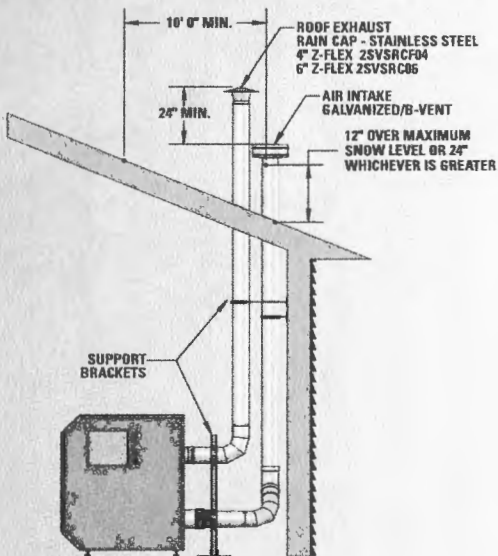
Model	A	B	C	D	E	F	G	H	J	K	L	M	N
MOD CON 300	20.00"	6.25"	10.25"	14.50"	26.00"	5.15"	20.50"	36.00"	33.50"	25.50"	10.25"	10.50"	26.50"
MOD CON 500	20.00"	6.25"	13.25"	14.50"	33.25"	5.15"	20.50"	36.00"	40.00"	25.50"	14.75"	10.50"	34.00"
MOD CON 850	20.00"	6.25"	16.25"	18.75"	43.50"	20.00"	20.50"	36.00"	68.75"	25.50"	20.00"	10.50"	57.50"

PLEASE NOTE: ALL DIMENSIONS ARE APPROXIMATE AND HEIGHTS DO NOT INCLUDE ADJUSTABLE LEGS.

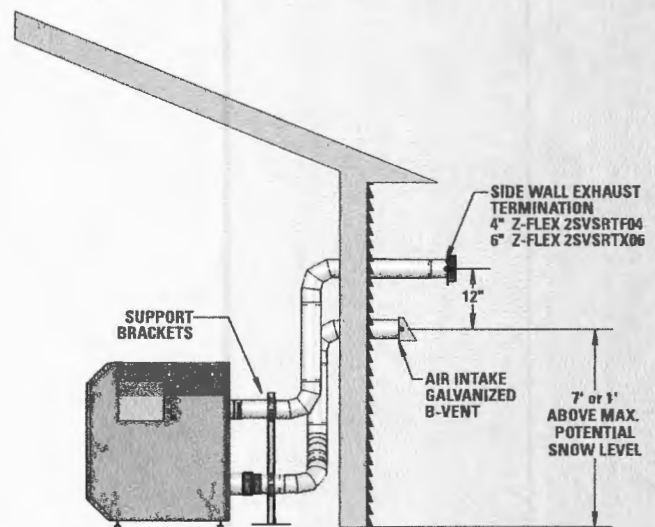
Model	BTU / hr Input Low Fire	Gross Output BTU / hr	Net I=B=R BTU / hr	Thermal Efficiency	Boiler Water	Supply/ Return Conn.	Gas Conn.	Vent Dia.	Ship Wt.	High Fan Speed	Low Fan Speed	Ignition
MOD CON 300	60,000-301,000	283,000	245,000	94%	2.9	1-1/2"	1-1/4"	4"	410	5400	1250	3000
MOD CON 500	100,000-500,000	470,000	409,000	94%	4.2	2"	1-1/2"	4"	505	6930	1250	3000
MOD CON 850	170,000-850,000	799,000	695,000	94%	5.8	2"	2"	6"	580	5500	1500	3000

MOD CON Vertical Venting

Roof Venting with Stainless Steel (AL294C)



Sidewall Venting with Stainless Steel



Note:

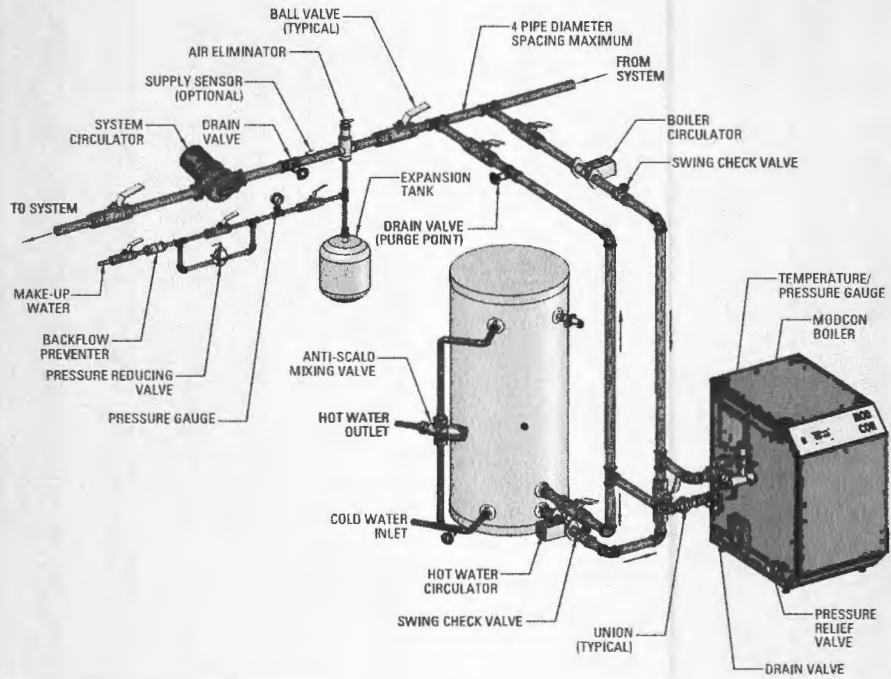
Vent must be at least 12" over maximum snow level or 24", whichever is greater – check with local code requirements

General Note:

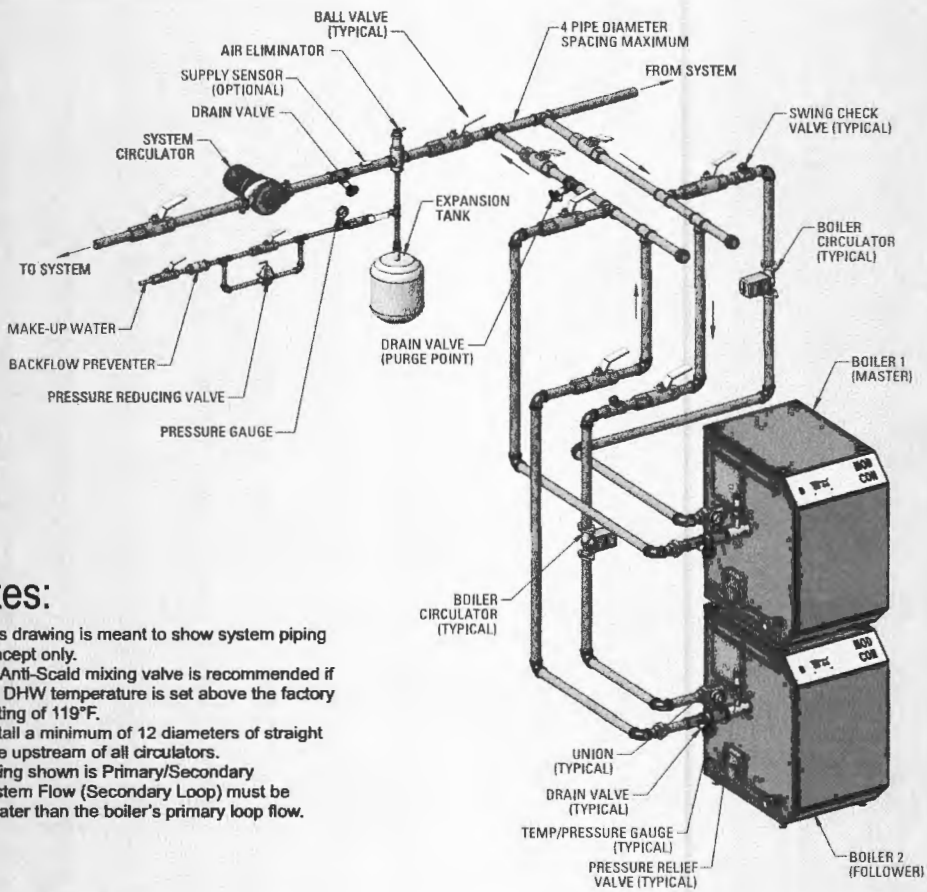
All vent pipes must be glued, properly supported and the exhaust must be pitched a minimum of 1/4" per foot back to the heater (to allow drainage of condensate).

LP-205-Y
Rev. 7/07/08

MOD CON Single Boiler Space Heating with Indirect Priority



LP-205-L
Rev. 10/28/08



LP-205-CC
Rev. 7/8/08

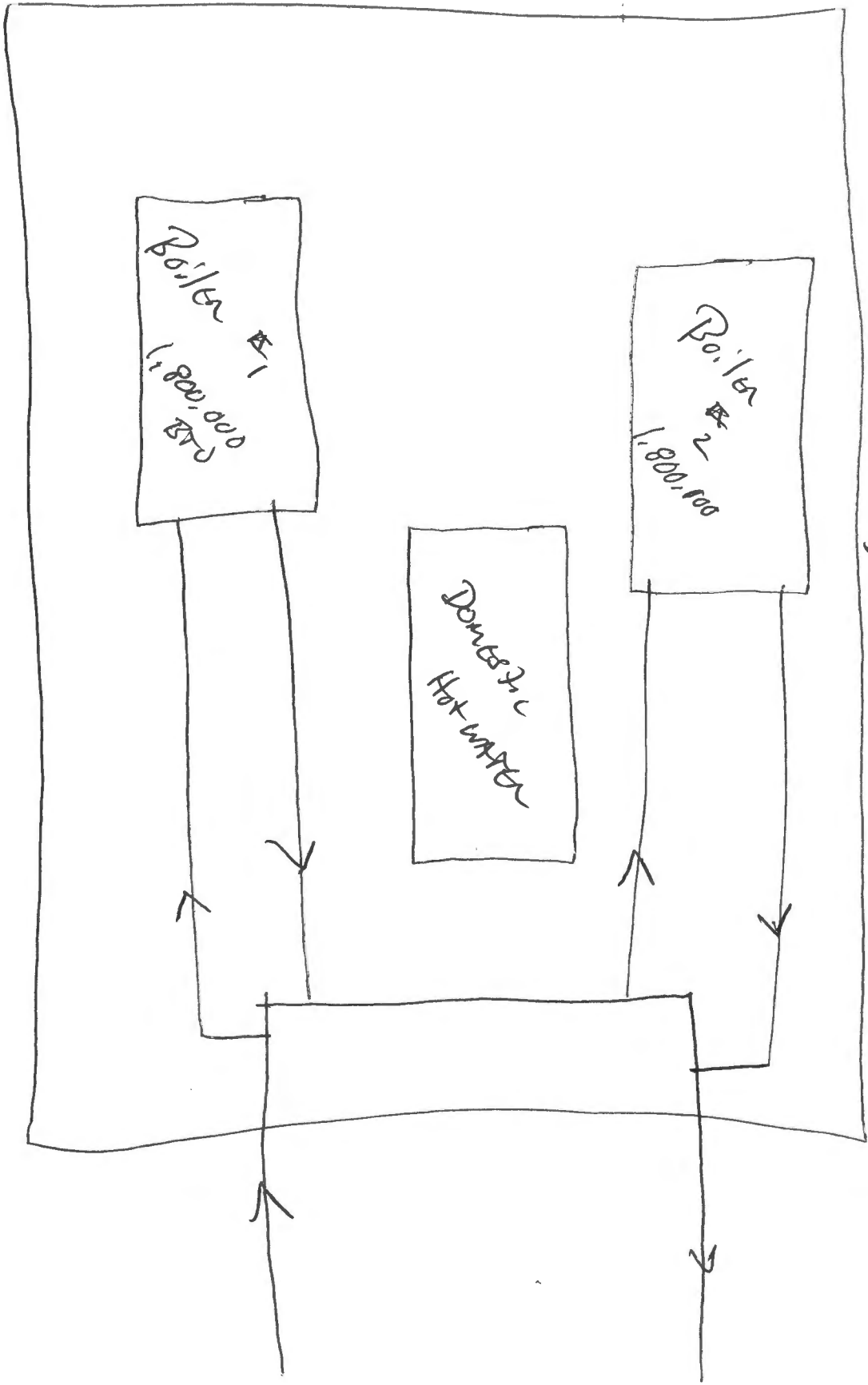
Notes:

1. This drawing is meant to show system piping concept only.
2. An Anti-Scald mixing valve is recommended if the DHW temperature is set above the factory setting of 119°F.
3. Install a minimum of 12 diameters of straight pipe upstream of all circulators.
4. Piping shown is Primary/Secondary
5. System Flow (Secondary Loop) must be greater than the boiler's primary loop flow.



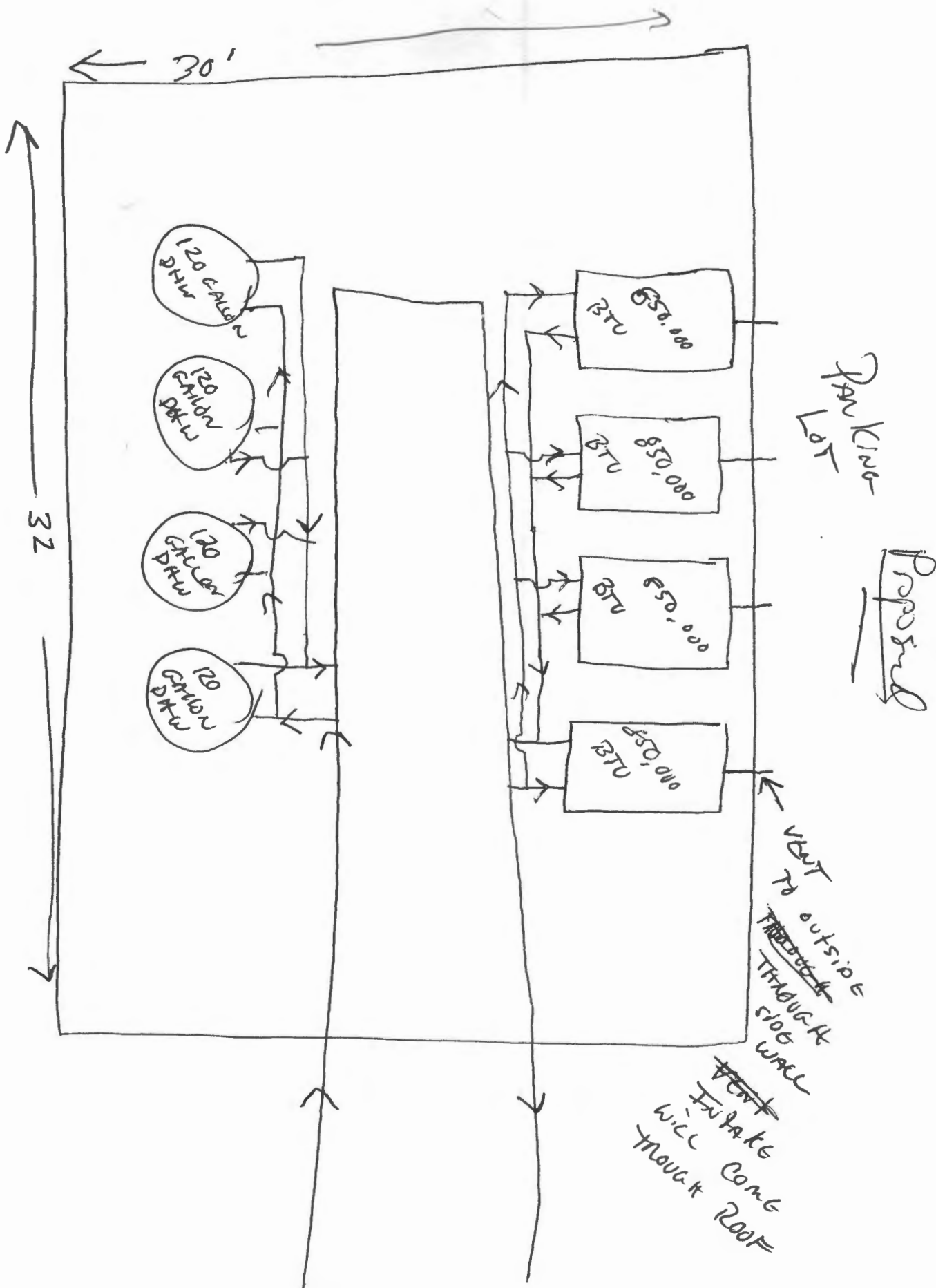
© 2012 HTP, Inc.
www.htproducts.com

LP-250 Rev. 04/18/12



Existing
Boiler Room

Pan Kiwa Lot



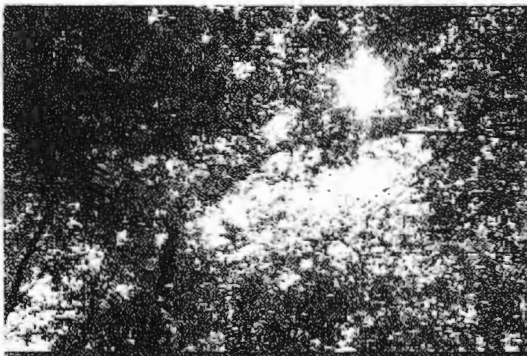
Innovation and the Environment

Over 100 years ago, a humble but determined engineer solved one of mankind's most elusive challenges by controlling the indoor environment. A leading engineer of his day, Dr. Willis Carrier would file more than 80 patents over the course of his career. His genius would enable incredible advancements in health care, manufacturing processes, food preservation, art and historical conservation, indoor comfort and much more.

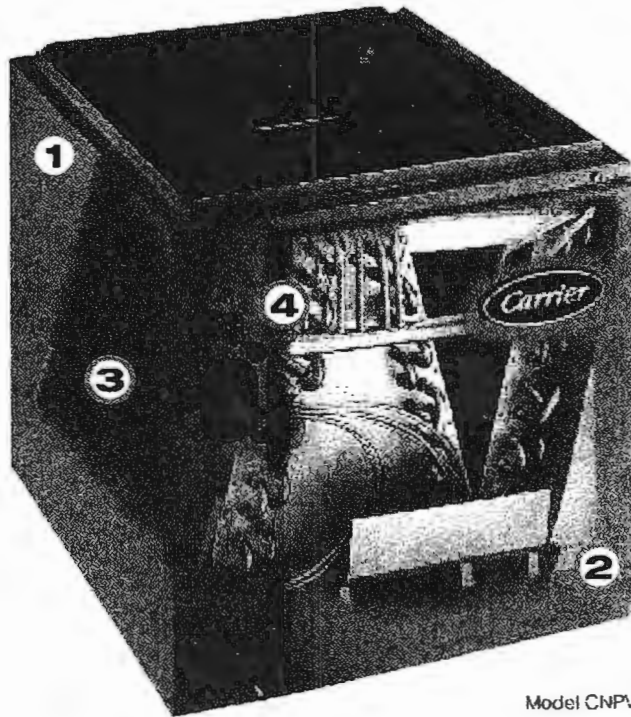


Carrier's foresight changed the world forever and paved the way for over a century of once-impossible innovations. Yet in addition to being an accomplished inventor, he was also an avid outdoorsman. Carrier recognized the power and beauty of the natural environment. This appreciation of our world and its resources continues to guide Carrier Corporation today. We will never rest on our accomplishments, but instead consistently look for ways to improve our products, our environment and our world.

Carrier® Performance™ series aluminum evaporator coils are designed to complement your Carrier system for optimum efficiency and comfort. These recyclable coils support Carrier's respect for our environment while providing tough, durable and lasting resistance to multiple sources of corrosion.



Leaders in Technology



Model CNPVP

What Efficiency Means to You

The evaporator coil is the unsung hero within your home comfort system. It is the key to maximizing the performance of your air conditioner or heat pump to ensure the efficiency and savings you expect. Carrier Performance series aluminum evaporator coils provide the excellent heat transfer needed to keep your system operating at peak energy efficiency and comfort capacity. And because they offer superior corrosion resistance, they protect against efficiency loss that can occur with standard copper/aluminum coils in corrosive environments.



Puron® refrigerant is environmentally sound and won't deplete the ozone layer. Carrier systems with Puron refrigerant set the standard for environmentally sound performance well ahead of industry competitors and over time have shown exceptional reliability. They are a testament to our industry-leading experience in this area and our continued insistence upon delivering superior quality products.

1 Durable and Attractive

The sturdy, 22-gage cabinet is insulated for sound and painted to match your Carrier® indoor unit for years of scratch-resistant good looks.

2 Enhanced Indoor Air Quality

Our high-tech, corrosion-free composite base pan with its integrated sloped drainage system helps circumvent the build-up of mold, bacteria and other airborne pollutants.

3 Lasting Performance

Aluminum construction and enhanced fin design provide superior corrosion resistance enabling our coil to last longer and your system to perform at its peak ability.

4 Assured Efficiency

To ensure maximum reliability and energy-efficient operation, the thermostatic expansion valve (TXV) maintains proper refrigerant flow during fluctuating pressures and conditions.

Performance Series Aluminum Evaporator Coils	Upflow / Downflow	Horizontal	Factory-Installed TXV*	Cased Coil	Puron Refrigerant
CAPVU	✓		✓		✓
CAPMP	✓	✓	✓	✓	✓
CNPVP	✓		✓	✓	✓
CNPHP		✓	✓	✓	✓
CSPHP		✓	✓	✓	✓
CNRVU	✓		✓		

*Thermostatic Expansion Valve

It's About Lasting Comfort

The evaporator coil is a core component of your comfort system. That's why it is vitally important to protect it from the elements that can erode its surfaces, reduce efficiency, and ultimately cause damage beyond repair. It's especially important in geographical areas that are vulnerable to the effects of formicary corrosion. Backed by millions of dollars of research and manufacturing technology, Carrier Performance™ series aluminum evaporator coils deliver comfort and efficiency with longer life expectancy than standard copper or standard aluminum coils.

Our aluminum evaporator coils provide excellent resistance to common household corrosives, offer enhanced durability with thicker coil walls, and exceed the Department of Energy standards for pressure-based leaks. Additionally, Carrier advancements in aluminum manufacturing result in higher reliability – the kind of reliability you expect when you choose Carrier for your family's comfort. Available for upflow/downflow applications as well as horizontal system usage, our full line of aluminum evaporator coils offers the right solution for your home.



Limited Warranty

To the original owner, Carrier Performance series aluminum evaporator coils are covered by a 10-year parts limited warranty upon timely registration. The limited warranty period is five years if not registered within 90 days of installation. Jurisdictions where warranty benefits cannot be conditioned on registration will receive the registered limited warranty period. See warranty certificate at carrier.com for complete details and restrictions. Be sure to ask your Carrier dealer about optional labor warranties.



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

6/21 20 12

Received from Patriot Mechanical

Location of Work 638 Congress

* Historic Fee For 2012-06-4286 HVAC

Cost of Construction \$ 208,000 Building Fee: 2100.00

Permit Fee \$ _____ Historic Site Fee: 50.00

RECEIVED

Certificate of Occupancy Fee: 50.00

Total: 2200.00

JUN 21 2012

Building (H) of Building Inspections
City of Portland, Maine
Plumbing (15) _____ Electrical (I2) _____ Site Plan (U2) _____

Other _____

CBL: _____

Check # 092448 Total Collected \$ 2200.00

**No work is to be started until permit issued.
Please keep original receipt for your records.**

Taken by: (Signature)

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy