



FILL IN AND SIGN WITH INK

Application for Heating, Ventilation, Air Conditioning (HVAC) or Power Equipment

To the Inspector of Buildings, Portland Maine:

The undersigned hereby applies for a permit to install the following HVAC, or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Address and CBL: 73 Melbourne St Use of Building: Multi-Fam. Dwelling Date: 7/14/2016

Name & Address of Owner: Tom & Meghan Seekins

Phone # of Owner: 239-7749 Email: mseekins@whitcogroup.com

Name & Address of Installer: Rudi The Plumber 1231 Forest Ave Ptld. ME 04103

Phone # of Installer: 797-8311 Email: rolf@ruditheplumber.com

Is this an EXACT replacement? (ie: SAME PRODUCT in the SAME LOCATION?)

(If so, you do NOT need to provide any plans, etc, just this form. NOTE: a final inspection is still a requirement)

Location of Appliance:

Basement Floor Wall

Attic Roof

Fuel or Power Source:

Gas Oil Electric Solid

Appliance Name: IBC 33-124 combi

Name of Listed Approval Entity (ie; UL Approval):
CSA 4.9-2014/ANSI Z21.13

Will appliance be installed in accordance with the manufacturer's instructions? Yes No

Type of License of Installer:

Master Plumber#: MS6694

Solid Fuel : _____

Oil #: _____

Gas #: PNT1311

Other: _____

Type of Venting: (Plan required for submittal)

Masonry Lined
 Factory Built: _____
 Metal
 Factory Built Listing #: PP #3PPS-AD
 Direct Vent

Type: UL1738
(ie: UL)

of Tanks: N/A

Type of Fuel Tank:
 Gas Oil K1 N/A

Size of Tank: N/A

Distance from tank to center of flame: N/A

Cost of Work: \$ 21500.00

Permit Fee: \$ 325.00

Signature of Installer: [Signature] Date: 7/14/16



Jeff Levine, AICP, Director
Planning & Urban Development Department

Tammy Munson, Director
Inspections Division

Electronic Signature and Fee Payment Confirmation

Notice: Your electronic signature is considered a legal signature per state law.

By digitally signing the attached document(s), you are signifying your understanding this is a legal document and your electronic signature is considered a **legal signature** per Maine state law. You are also signifying your intent on paying your fees by the opportunities below.

I, the undersigned, intend and acknowledge that no permit application can be reviewed until payment of appropriate permit fees are **paid in full** to the Inspections Office, City of Portland Maine by method noted below:

- Within 24-48 hours, once my complete permit application and corresponding paperwork has been electronically delivered, I intend to **call the Inspections Office** at 207-874-8703 and speak to an administrative representative and provide a credit/debit card over the phone.
- Within 24-48 hours, once my permit application and corresponding paperwork has been electronically delivered, I intend to **hand deliver** a payment method to the Inspections Office, Room 315, Portland City Hall.
- I intend to deliver a payment method through the U.S. Postal Service mail once my permit paperwork has been electronically delivered.

Applicant Signature:

Date:

7/15/16

I have provided digital copies and sent them on:

Date:

NOTE: All electronic paperwork must be delivered to buildinginspections@portlandmaine.gov or by physical means ie; a thumb drive or CD to the office.



Acknowledgment of Code Compliance Responsibility – Fast Track Project

THIS PROJECT IS ELIGIBLE FOR FAST TRACK PERMITTING BECAUSE IT IS IN THE FOLLOWING CATEGORY / CATEGORIES (CHECK ALL THAT APPLY):

- One/Two Family Swimming Pools, Spas or Hot Tubs
- One/Two Family Decks, Stairs and Porches (attached or detached) First Floor Only
- One/Two Family Detached 1 Story Accessory Structures (garages, sheds, etc.) not to exceed 600sq ft with no habitable space
- Home Occupations (excluding day cares)
- One/Two Family Renovation/Rehabilitation (within the existing shell)
- Attached One /Two Family Garages /Additions/Dormers bearing the seal of a licensed design professional
- New *Sprinklered* One and Two Family Homes (bearing the seal of a licensed design professional stating code compliance) – **MUST STILL RECEIVE LEVEL 1 SITE PLAN APPROVAL FROM PLANNING**
- One/Two Family HVAC (including boilers, furnaces, heating appliances, pellet and wood stoves)
- Interior office renovations with no change of use (no expansions; no site work; no load bearing structural changes are eligible) bearing the seal of a licensed design professional stating code compliance
- Interior Demolition with no load bearing demolition
- Amendments to existing permits
- Commercial HVAC systems (with structural and mechanical plans bearing the seal of a licensed design professional stating code compliance)
- Commercial HVAC for Boilers/Furnaces/Heating Appliances
- Commercial Signs or Awnings
- Exterior Propane Tanks
- Residential or Commercial Subsurface Waste Water Systems (No Rule Variance Only)
- Renewal of Outdoor Dining Areas
- Temporary Outdoor Tents and stages under 750 sq. ft. per tent or stage
- Fire Suppression Systems (Both non-water and water based installations)
- Fences over 6'-0" in height
- Site work only
- Retaining walls over 4ft in height with stamped plans (or approval from inspection staff)

I understand that if the property is located in a historic district this application will also be reviewed by Historic Preservation. I further understand that the Dept. of Permitting & Inspections reserves the right to deny a fast track eligible project.

Sign Here:

Owner or Owner's Authorized Agent

Date:

3/14/16

This is not a permit, or permit application; you may not commence ANY work until the permit is issued.



Acknowledgment of Code Compliance Responsibility – Fast Track Project

I, Belf Casparius am the owner or authorized owner's agent of the property listed:
Print Legal Name

73 Melbourne st I am seeking a permit for the construction/installation of:
Physical Address (of property for permit)

Fenced hot water heating system

Proposed Project Description

I understand that the permits obtained pursuant to this acknowledgement of code compliance responsibility will be in my name and that I am acting as the **general contractor** for this project. I accept full responsibility for the work performed.

I am submitting for a permit authorized by the State of Maine Uniform Building and Energy Code (MUBEC), Fuel Board Laws and Rules and all locally adopted codes and standards applying to Plumbing, Electrical, Fire Prevention and Protection in anticipation of having it approved or approved with conditions. I have read the following statement and understand that failing to comply with all conditions once construction is begun may necessitate an immediate work stoppage until such time as compliance with the stipulated conditions is attained. I certify that I have made a diligent inquiry regarding the need for concurrent state or federal permits to engage in the work requested under this building permit, and no such permits are required or I will have obtained the required permits prior to issuance of this permit. I understand that the granting of this permit shall not be construed as satisfying the requirements of other applicable Federal, State or Local laws or regulations, including City of Portland historic preservation requirements, if applicable. I understand and agree that this permit does not authorize the violation of regulations. In addition, I understand and agree that this building permit does not authorize the violation of the **12 M.R.S. §12801 et seq. - Endangered Species.**

I certify under penalty of perjury and under the laws of the State of Maine the foregoing is true and correct. I further certify that all easements, deed restrictions, or other encumbrances restricting the use of the property are shown on the site plans submitted with this application.

I hereby apply for a permit as a owner agent of the below listed property and by so doing will assume responsibility for compliance with all applicable codes, bylaws, rules and regulations.
(Owner or Owner agent)

I further understand that it is my responsibility to schedule inspections of the work as required and that the City's inspections will, at that time, check the work for code compliance. The City's inspectors may require modifications to the work completed if it does not meet applicable codes. _____ (INITIAL HERE)

Sign Here: [Signature] Date: 7/14/16
(Owner or Owner's Authorized Agent)

PLEASE ALSO FILL OUT AND SIGN SECOND PAGE

PERMIT # _____

CBL # _____

This is not a permit, or permit application; you may not commence ANY work until the permit is issued.

Rudi The Plumber Inc.

Rudi Casparius, 1231 Forest Avenue, Portland, Maine 04103 ~ Telephone 797-8311

PROPOSAL

To: Ms. Seekins
Address: 29 Derby Ln.
North Yarmouth, ME 04097
Date 7/1/2016

We will provide materials and labor for the following at:

~ 73 Melbourne Street ~

Installation of two combination forced hot water and domestic heating systems:

- Mount two IBC 20-125, modulating, condensing boilers on utility walls as discussed. Connect to the hot & cold water piping from the house with the necessary valves and fittings, to the domestic hot water heater connections of the boiler. Install 3" PVC/Poly-Pro vent piping through the sidewall/roof for combustion air and exhaust. Set-up a neutralizer and pipe the discharge to a nearby drain for condensate removal.
- Install all necessary boiler piping with valves, fittings and controls necessary in accordance with manufacturer's installation specifications, and all applicable code requirements. Mount a seven loop Uponor EP distribution manifold in a central area of the apartments. Connect to the new system distributing the flow required to and from each radiator using 1/2" hePEX tubing with provisions for future zoning.
- Wire the new system from an electrical supply provided, connecting all controls as required. Configure the systems to function as one zone each with outdoor reset, which will be managed by the boiler's operating control in conjunction with an outdoor sensor on the north side of the building. This will accurately monitor outside temperature and allow the system to operate at the highest possible efficiency by resetting supply water to the radiators based on outside temperature. These systems will use Honeywell TH1110D 1000 non programmable digital thermostats.
- Install Pensotti radiators throughout the apartments as required to meet the demand of the heat loss. There will be seven panels in each unit with provisions for an additional unit on the third floor.

*** All permits pertaining to the work described herein are included in this proposal ***
** Smoke/CO detectors and electrical feeds are to be provided and installed by electrician **

We hereby propose to provide in accordance with the above specifications, for the sum of

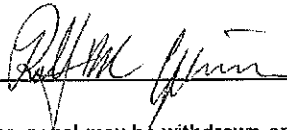
21,500.00

PAYMENT TERMS

We will require a minimum down payment of \$6450.00; with a drawing of \$6450.00 due after the inspection; \$4300.00 at the point of trimming out the system with the remainder due upon completion of the project unless otherwise specified. Special order items must be paid for in advance.

Rudi the Plumber assures that material is guaranteed to be as set forth. All work to be completed in a workmanlike manner according to standard practices. Any changes from the above specifications involving additional costs will be only by request in writing, and will be an additional charge over the original estimate. All agreements contingent upon strikes, accidents or acts of God. Owner to carry fire, and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance.

Authorized Signature _____



Dated 7/1/2016.

* This proposal may be withdrawn or subject to change if not accepted within thirty days *

ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are satisfactory and hereby accepted. You are hereby authorized to do the work as specified. Payments are subject to 1.5 % finance charge on past due bills (18% per annum) in the event of default of payment, collection charges will be paid by debtor.

Customer Signature _____

Date ____/____/____

23,000 to 84,000 BTU/HR 29,000 to 106,000 BTU/HR
 33,000 to 124,000 BTU/HR 20,000 to 125,000 BTU/HR
 33,000 to 160,000 BTU/HR

Dual Condensing Combi Boile

JOB NAME: SEEKINS

LOCATION: 73 Melbourne

ENGINEER: _____

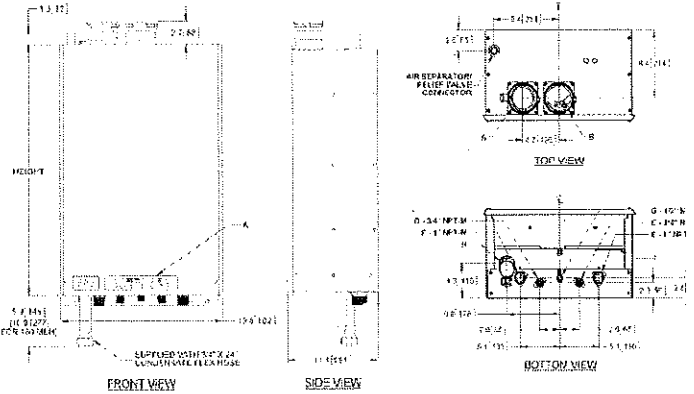
WHOLESALE: _____

CONTRACTOR: Ruedi He Plumber Inc

FUEL: Natural Gas Propane

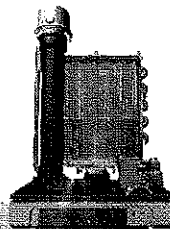
BTUH/INPUT: 25 MDH

BTUH/OUTPUT: Variable



ECIFICATIONS	DC 23-84	DC 29-106	DC 33-124	DC 20-125	DC 33-160
A Input (Natural Gas or Propane) – MBH	23 - 84	28.5 - 106	33 - 124	20 - 125	33 - 160
A Input (Natural Gas or Propane) – KW	6.7 - 24.9	8.4 - 31.0	9.7 - 36.3	5.6 - 36.6	9.7 - 46.9
A Output – MBH	21.2 - 74.8	26.3 - 94.3	31 - 115	18.6 - 110.8	30.4 - 140.0
A Output - KW	6.2 - 21.9	7.7 - 27.6	9.0 - 33.8	5.4 - 32.5	8.9 - 41.0
W - CSA Input (Natural Gas or Propane) - MBH	23 - 84	28.5 - 106	33 - 124	20 - 125	33 - 124
W - CSA Input (Natural Gas or Propane) - KW	6.7 - 24.9	8.4 - 31.0	9.7 - 36.3	95.6 - 36.3	9.7 - 36.3
U.E	94%	94%	94%	95%	94%
Gas Pressure (Nat. Gas or Propane) – inch w.c.	5	5	5	5	5
Gas Pressure (Nat. Gas or Propane) – inch w.c.	14	14	14	14	14
Power (120Vac/60Hz) - Watts @ full fire with internal pump	126	128	130	130	164
Weight (empty) – lbs/Kg	85 / 39	85 / 39	85 / 39	85 / 39	85 / 39
Maximum Vessel water content – USG/Liters	0.37/1.4	0.37/1.4	0.5/1.9	0.5/1.9	0.5/1.9
Maximum boiler flow rate - USgpm	9	10	11	11	11
Minimum boiler flow rate - USgpm	2	3	3	3	3
Maximum Operating Pressure – Space Heating Coil - psig	43.5	43.5	43.5	43.5	43.5
Maximum Operating Pressure – Domestic Hot Water Coil - psig	150	150	150	150	150
Approved installation altitude - ASL	12,000 ft	12,000 ft	12,000 ft	12,000 ft	12,000 ft
Minimum Ambient Temperature – Low (°F/°C)	32/0	32/0	32/0	32/0	32/0
Minimum Ambient Temperature – High (°F/°C)	122/50	122/50	122/50	122/50	122/50
Maximum relative humidity (non-condensing)	90%	90%	90%	90%	90%
Minimum water Temperature - Space Heating (°F/°C)	50/10	50/10	50/10	50/10	50/10
Maximum water Temperature – Space Heating (°F/°C)	194/90	194/90	194/90	194/90	194/90
Minimum water Temperature – Domestic Hot Water (°F/°C)	104/40	104/40	104/40	104/40	104/40
Maximum water Temperature – Domestic Hot Water (°F/°C)	149/65	149/65	149/65	149/65	149/65
Minimum flow rate to activate DHW heating - USgpm	0.5	0.5	0.5	0.5	0.5
Maximum flow rate DHW heating - USgpm	2.6	3.3	4	4	4
Minimum equivalent vent length 2" (each side)	35'	35'	35'	35'	35'
Minimum equivalent vent length 3" (each side)	120'	120'	120'	120'	120'
Domestic Hot Water Delivery: @70°F/39°C temperature rise	2.1 GPM	2.7 GPM	3.2 GPM	3.2 GPM	3.2 GPM

Boilers are shipped with 30 psi pressure relief valve.



DESCRIPTION	DC Series
A Exhaust Outlet	3" Schedule 40
B Combustion Air	3" Schedule 40
C Cold Domestic Water Connection	3/4" Male NPT
D Hot Domestic Water Connection	3/4" Male NPT
E Heating Water Inlet (Return)	1" Male NPT
F Heating Water Outlet (Supply)	1" Male NPT
G Gas Inlet	1/2" Male NPT
H Condensate Outlet	3/4" Hose
I Knock-Outs (3)	1/2"

Connections

SURFACE	DISTANCE FROM COMBUSTIBLE SURFACES	RECOMMENDED DISTANCE FOR INSTALLATION AND SERVICE
Front	2"	24"
Rear	0"	0"
Left Side	1.5"	6" (labels may be difficult to read with reduced clearance)
Right Side	4"	6" (labels may be difficult to read with reduced clearance)
Top	2"	24"
Bottom	8"	24"

Clearance from boiler cabinet

EXHAUST PIPE SIZE	MAXIMUM EQUIVALENT LENGTH
Sched.40; Rigid PPs	(each side)
2"	35'
3"	120'
2"/ 3" 90° Long Sweep Vent Elbow	Allow 5' equivalent feet
2"/ 3" 90° Short Sweep Vent Elbow	Allow 8' equivalent feet
2"/ 3" 45° Vent Elbow	Allow 3' equivalent feet
PPS	
PPs 87-90° Elbow	Allow 8' equivalent feet
Flexible PPs	
3" Flexible	35 actual feet

Maximum exhaust venting length