

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

PLPROPERTIES LLC /HVAC Services, Inc.

Located at

561 FOREST AVE

PERMIT ID: 2012-65581

CBL: 126 D012001

has permission to **Install HVAC; install trane equipment**

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues 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 cloed-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 procured prior to occupancy.

Fire Prevention Officer

Jamie Banks

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
THERE IS A PENALTY FOR REMOVING THIS CARD**

PERMIT ID: 2012-65581

Located at: 561 FOREST AVE

CBL: 126 D012001

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 (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.**

REQUIRED INSPECTIONS:

Close-in Plumbing/Framing
Final Inspection

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.

City of Portland, Maine - Building or Use Permit

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

Permit No: 2012-65581	Date Applied For: 12/11/2012	CBL: 126 D012001
---------------------------------	--	----------------------------

Location of Construction: 561 FOREST AVE	Owner Name: PLPROPERTIES LLC	Owner Address: 14 CANDLEBROOK LN	Phone:
Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone (207) 854-4822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Same: 1st floor retail with offices in rest of building	Proposed Project Description: Install HVAC; install trane equipment
---	---

Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 12/12/2012	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
Dept: Building	Status: Approved w/Conditions	Reviewer: Jeanie Bourke	Approval Date: 01/16/2013	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
1) The appliance and venting shall be installed in accordance with the UL listing, manufacturer's specifications and NFPA 211				
2) Application approval based upon information provided by the applicant or design professional. Any deviation from approved plans requires separate review and approval prior to work.				
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.				
4) The installation must comply with the State of Maine Gas Regulations.				
Dept: Fire	Status: Approved w/Conditions	Reviewer: Ben Wallace Jr	Approval Date: 02/20/2013	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
1) Installation shall comply with NFPA 211, Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances; NFPA 54, National Fuel Gas Code; NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems; NFPA 91, Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids; NFPA 70, National Electrical Code; and the manufacturer's published instructions.				
2) Fuel-fired boilers shall be protected in accordance with NFPA 101, Life Safety Code.				
3) Installation shall comply with City Code Chapter 10.				

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 2012-65581	Issue Date:	CBL: 126 D012001
--------------------------	-------------	---------------------

Location of Construction: 561 FOREST AVE	Owner Name: PLPROPERTIES LLC	Owner Address: 14 CANDLEBROOK LN	Phone:
Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone: (207) 854-4822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: B2b
Past Use: 1st floor retail with offices in rest of building	Proposed Use: Same: 1st floor retail with offices in rest of building	Permit Fee: \$230.00	Cost of Work: \$21,000.00
Proposed Project Description: Install HVAC; install trane equipment		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A 2/20/13	INSPECTION: Use Group: M/B Type: HVAC MUBEC 2009
		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: bjs	Date Applied For: 12/11/2012	Zoning Approval		
<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. 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..</p>		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 Date: <i>[Signature]</i> 12/12/12	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 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>

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

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-07-4491-ALTCOMM	Date Applied: 7/18/2012	CBL: 126- D-012-001	
Location of Construction: 561 FOREST AVE	Owner Name: PL PROERTIES LLC	Owner Address: 14 CANDLEBROOK LN SOUTH PORTLAND, ME 04106	Phone: 207-831-0434
Business Name:	Contractor Name: Daigle Construction, Craig Daigle	Contractor Address: 24 Church ST Brunswick ME 04011	Phone: (207) 751-2751
Lessee/Buyer's Name:	Phone:	Permit Type: BLDG - Building- ch of use	Zone: B-2b
Past Use: Office	Proposed Use: First floor retail, 2 nd floor office - change of use 1 st floor, shell renovation & code update of existing structure	Cost of Work: 175000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: M/B Type: 2B MUBEL 2009
Proposed Project Description: Shell renovation and update, change of use		Pedestrian Activities District (P.A.D.) Signature: <i>[Signature]</i> Date: 8/30/12	

Permit Taken By: Brad	Zoning Approval		
<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: OK w/condition 7/25/12 ABM	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 checked="" type="checkbox"/> Not in Dist 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: ABM

CERTIFICATION

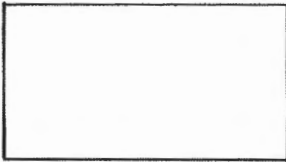
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, 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



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 561 Forest Avenue Use of Building Retail / Office Date 12-6-12
 Name and address of owner of appliance P.L. Properties LLC
14 Candlebrook Lane South Portland 04106
 Installer's name and address HVAC Services 73 Bradley Drive
Westbrook ME 04092 Telephone 854-4822

RECEIVED
DEC 11 2012
 Dept. of Building Inspections
 City of Portland Maine

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: TRANE

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 1053
- Other- _____

Type of Chimney:

Masonry Lined N/A
Factory built _____

Metal
Factory Built U.L. Listing # N/A

Direct Vent
Type PVC UL# H-EFF

Type of Fuel Tank Natural Gas
 Oil
 Gas

Size of Tank NA

Number of Tanks NA

Distance from Tank to Center of Flame NA feet.

Cost of Work: \$ 21,000

Permit Fee: \$ 230.00

Approved

Approved with Conditions

Fire: _____

See attached letter or requirement

Ele.: _____

Bldg.: _____

Inspector's Signature

Date Approved

Signature of Installer _____

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

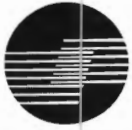
2186



Product Catalog

Packaged Rooftop Air Conditioners Precedent™ — Cooling and Gas/Electric 3 – 10 Tons — 60 Hz





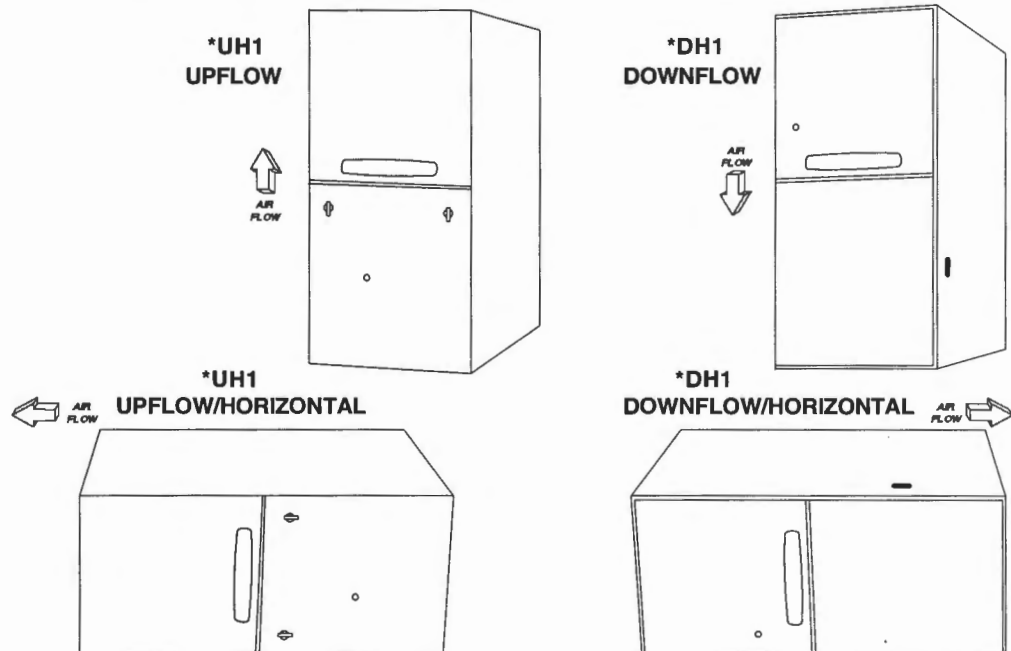
TRANE®

Upflow/ Horizontal Downflow/Horizontal Condensing, Direct Vent Gas-Fired Furnace

XR 95

TUH1B040A9241A, TUH1B060A9361A,
TUH1B080A9421A, TUH1C080A9601A,
TUH1C100A9481A, TUH1D100A9601A,
TUH1D120A9601A, TDH1B040A9241A,
TDH1B065A9421A, TDH1C085A9481A,
TDH1D110A9601A

Single-Stage Fan Assisted
Combustion System



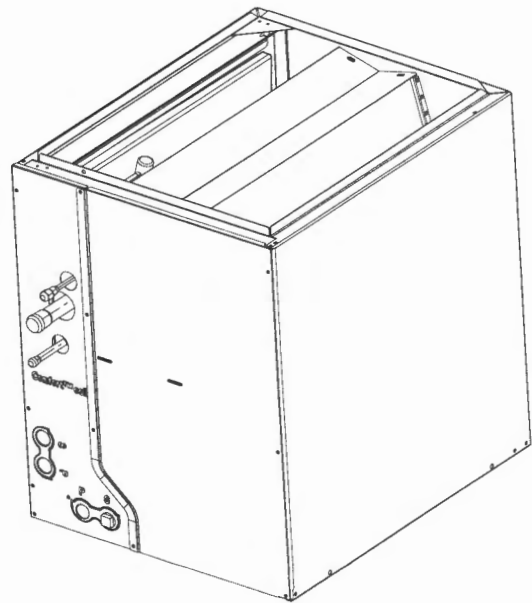
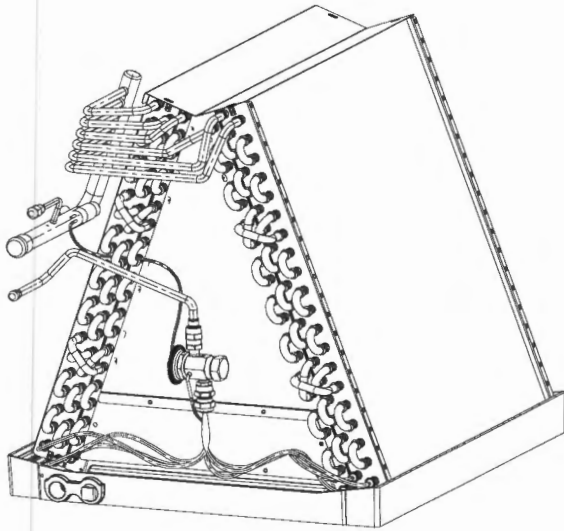
PUB. NO. 22-1836-07



Aluminum Cased and Uncased Heat Pump / Cooling Coils 1 1/2 - 5 Ton

4TXA, 4TXC, 4TXC-CC

Heat Pump /Cooling Coils for R-410A



PUB. NO. 22-1813-06

Table 1. Maximum unit & corner weights (lbs) and center of gravity dimensions (in.) - gas/electric models

Tons	Unit Model No.	Maximum Model Weights ^(a)		Corner Weights ^(b)				Center of Gravity (In.)	
		Shipping	Net	A	B	C	D	Length	Width
3	YSC036E	607	532	165	137	95	134	31	19
4	YSC048E	638	563	175	145	101	142	31	19
5	YSC060E	688	613	190	158	110	155	31	19
6	YSC072E	936	793	304	146	219	124	41	23
7½	YSC090E	916	821	256	222	159	183	41	22
7½	YSC092E	1042	899	366	160	265	108	42	22
8½	YSC102E	1096	953	371	173	277	132	42	23
10	YSC120F	1156	1058	345	242	258	213	41	23
3	YHC036E/YHC037E	676	606	178	162	126	139	33	19
4	YHC048E/YHC047E	858	763	238	200	148	176	40	23
5	YHC060E/YHC067E	917	822	261	218	156	187	40	22
6	YHC072E	997	900	274	250	180	196	42	22
7½	YHC092E	1552	1335	373	368	295	299	50	28
7½	YHC092F	1124	1026	340	233	249	204/	50	28
8½	YHC102E	1579	1362	385	374	297	306	49	28
10	YHC120E	1589	1372	384	378	302	308	49	28

(a) Weights are approximate.
 (b) Corner weights are given for information only.

Figure 15. Rigging and center of gravity

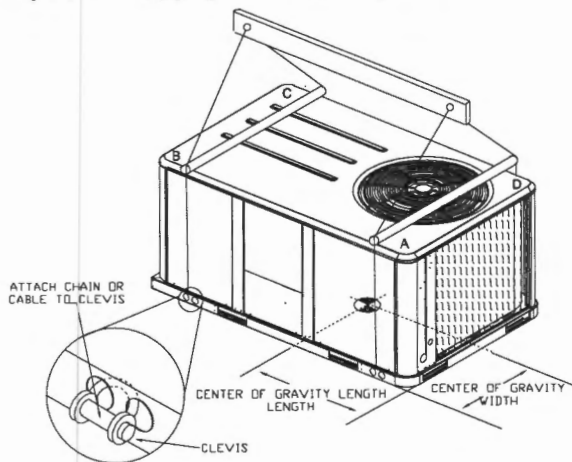


Table 2. Factory installed options (fiops)/accessory net weights (lbs)^{(a),(b)}

Accessory	YSC036E-060E YHC036E,YHC037E	YHC047E-067E	YSC072E-102E YHC072E	YHC092F, YSC120F	YHC092E-120E
	Net Weight	Net Weight	Net Weight	Net Weight	Net Weight
	3-5 T	4-5 T	6-8 T	7.5, 10 T	10 T
Barometric Relief	7	10	10	10	10
Belt Drive Option (3 phase only)	31	31	—	—	—
Coil Guards	12	20	20	20	30
Economizer	26	36	36	36	36
Electric Heaters	15	30	30	40	40

HELEN WATTS ENGINEERING

455 Litchfield Road
Bowdoin, ME 04287
(207) 522-9366 · fax (207) 666-3920
hewatts@gei.net
July 2, 2012

Coastline Air Mechanical Services, LLC
Attn: Thomas J. Smart
P.O. Box 125
Westbrook, ME 04098-0125
coastlineair@myfairpoint.net

Re: Structural Evaluation, HVAC
561 Forest Avenue, Portland, Maine
IIVE P/N 12-027

Dear Tom:

At your request, I inspected the visible structural framing of the roof of the building at 561 Forest Avenue in Portland, Maine, as well as the roof itself, on June 29, 2012. The building contractor, architect and designer were present. The building has been fully gutted. The proposed HVAC unit will go in the place of the present unit.

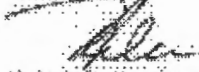

The proposed unit is a 7.5 Ton Coleman model # ZW-07N18CT1AA5. The footprint of the unit is 89" x 59". The unit, with curbing, duct and accessories is assumed to weigh 1500#.

The building is 40' wide, along Forest Drive, and has single-span 24" open-web steel joist trusses. The trusses were measured, and appear to be similar to the Steel Joist Institute's joist designated 24K7. For a 40' span, this joist will accommodate 253 pounds per linear foot (PLF) (ASD Method). The actual design span is 39', conservative. Assuming 42 psf roof snow load and 15 psf dead load, and the HVAC unit load bearing on only two joists, the expected loading is equivalent to 247 PLF.

The existing roof framing is adequate to support the proposed HVAC equipment.

Thank you for giving us the opportunity to be of service to you.

Yours truly,


Helen C. Watts, FE


C:\Users\Ralph\Documents\IIVE\561 Forest Ave HVAC Unit.doc

Civil and Structural Engineering