

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that 39 LLC

Located At 39 FOREST AVE

Job ID: 2011-07-1734-HVAC

CBL: 037 - - A - 012 - 001 - - - -

has permission to install Trane gas furnace

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] 8/3/11
Code Enforcement Officer / Plan Reviewer

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

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-07-1784-HVAC	Date Applied: 7/22/2011	CBL: 037 - - A - 012 - 001 - - - - -	
Location of Construction: 39 FOREST AVE	Owner Name: J9 LLC	Owner Address: 100 SILVER ST PORTLAND, ME - MAINE 04101	Phone:
Business Name:	Contractor Name: Johnson & Jordan	Contractor Address: 18 Mussey Road, Scarborough, ME	Phone: 883-8345
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: B-3c
Past Use: Offices	Proposed Use: Same: Offices - to install Trane #TUH 100A gas furnace	Cost of Work: \$34000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: B Type: HVAC
Proposed Project Description:		Signature: <i>[Signature]</i> (SB)	Signature: <i>[Signature]</i> 8/3/11
Proposed Project Description: Pedestrian Activities District (P.A.D.)			
Permit Taken By: Lannie		Zoning Approval	

- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building Permits do not include plumbing, septic or electrical work.
- 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.

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland	<input type="checkbox"/> Variance	<i>Within</i> <input type="checkbox"/> Not in Dist or Landmark
<input type="checkbox"/> Wetlands	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Does not Require Review
<input type="checkbox"/> Flood Zone	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review
<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input type="checkbox"/> Approved
<input type="checkbox"/> Site Plan	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions
<input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied
Date: <i>[Signature]</i> 7/20/11	Date:	Date: <i>Any expansion of work requires a separate review & approval</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	PHON

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.

1. Final inspection at completion of work.

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

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-07-1784-HVAC

Located At: 39 FOREST

CBL: 037 - A - 012 - 001 - - - -

Conditions of Approval:

Fire

1. Installation shall comply with City Code Chapter 10. Unvented fuel-fired boilers are prohibited.
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*; NFPA 54, *National Fuel Gas Code*; NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

Building

1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
2. Equipment and venting must be installed in compliance per the manufacturer's specifications
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. Must comply with the Maine State Gas Regulations



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



B-3c/Hustace

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 39 Forest Av. Portland, ME Use of Building offices Date 7/21/11
 Name and address of owner of appliance Commercial Properties 100 Silver St. Portland, ME.
Fan Point Communications
 Installer's name and address Johnson + Jordan 18 Mussey Road Scarborough, ME.
04074 Telephone 207-883-8345

Location of appliance:
 Basement Floor
 Attic Roof

Type of Fuel:
 Gas Oil Solid

Appliance Name: Trane #TVH100A
 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 1251
 Other _____

Type of Chimney:
 Masonry Lined
 Factory built N/A
 Metal
 Factory Built U.L. Listing # NA
 Direct Vent
 Type N/A UL# _____

Type of Fuel Tank
 Oil
 Gas

Size of Tank N/A - Natural Gas

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$33,820.00
 Permit Fee: \$360

U.C.E.C.

RECEIVED
 JUL 22 2011
 Dept of Building Inspections
 City of Portland, Maine

Approved
 Fire: _____
 Ele.: _____
 Bldg.: _____

Approved with Conditions
 See attached letter or requirement

Inspector's Signature _____ Date Approved _____

Signature of Installer *[Signature]*

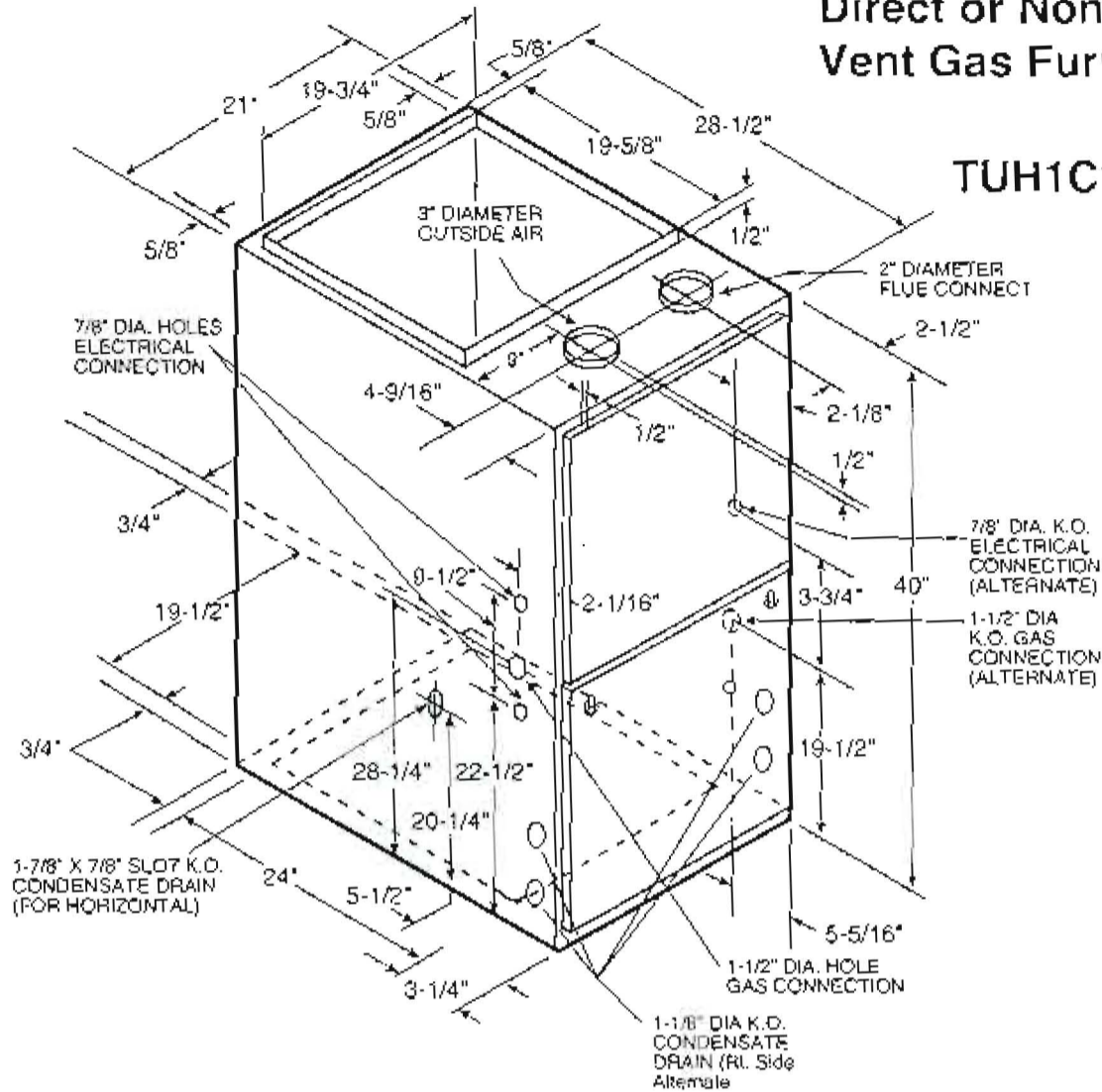
White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

TAG: _____

SUBMITTAL

Upflow / Horizontal
Direct or Non-Direct
Vent Gas Furnace

TUH1C100A9481A



MODEL	SPEED TAP	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
*UH1C100A9481A	4 - HIGH - Black	1982	1912	1836	1761	1679	1593	1496	1389	1267
	3 - MED-HIGH - Blue	1892	1832	1755	1696	1621	1538	1446	1342	1205
	2 - MED-LOW - Yellow	1759	1712	1660	1604	1535	1465	1383	1275	1149
	1 - LOW - Red	1593	1557	1521	1485	1433	1370	1294	1182	1058

*= First letter may be 'A' or 'T'

MODEL	Cubic Feet Per Minute (CFM)										
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
*UH1C100A9481A			68	53	59	55	52	49	45	44	

*= First letter may be 'A' or 'T'

General Data ①

TYPE	Upflow / Horizontal	VENT PIPE DIAMETER — Min. (in.) ②③	3 Round
RATINGS ④			
Input BTUH	97,000	HEAT EXCHANGER	
Capacity BTUH (ICS) ⑤	92,150	Type—Fired	Alum Steel
AFUE	95.0	—Unfired	
Temp. Rise (Min.—Max.) °F.	35 - 65	Gauge (Fired)	20
BLOWER DRIVE			
	DIRECT	ORIFICES — Main	
Diameter-Width (In.)	10 x 10	Nat Gas Qty. — Drill Size	5 — 45
No. Used	1	L.P. Gas Qty. — Drill Size	5 — 56
Speeds (No.)	4	GAS VALVE	
CFM vs. In. w.g.	Sec Fan Performance	Redundant - Single Stage	
Motor HP	1/2	PILOT SAFETY DEVICE	
R.P.M.	1075	Type	Hot Surface Ignition
Volts/Ph/Hz	115/1/60	BURNERS — Type	
COMBUSTION FAN - Type			
Drive - No. Speeds	Direct - 1	Number	Multiport Inshot
Motor HP - RPM	1/20 - 3450	POWER CONN. — V/Ph/Hz ⑥	
Volts/Ph/Hz	115/1/60	Capacity (In Amps)	115/1/60
F.L. Amps	0.71	Max. Overcurrent Protection (amps)	20
FILTER — Furnished?			
Type Recommended	No	PIPE CONN. SIZE (IN.)	
Hi Vel (No.—Size—Thk.)	High Velocity 1 - 20x25 - 1in.	1/2	
DIMENSIONS			
		H x W x D	
		Crated (In.) 41-3/4 x 23 x 30-1/2	
		Uncrated (In.) 40 x 21 x 28	
WEIGHT			
		Shipping (Lbs.) / Net (Lbs.) 171 / 150	

Notes

- ① Central Furnace heating designs are certified by AQA and CSA.
 ② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.
 For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.
 ③ Based on U.S. government standard tests.
 ④ The above wiring specifications are in accordance with National Electrical Code, however, installations must comply with local codes.
 ⑤ Refer to the Vent Length Table in the Installer's Guide or the Allowable Vent Length label located on the furnace.
 ⑥ All "UH1" furnace models have a vent outlet diameter that equals 2".

Mechanical Specifications

NATURAL GAS MODELS — Central heating furnace designs are certified by the American Gas Association for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

SAFE OPERATION — The integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Slow opening, dual solenoid combination gas valve and regulator provide extra safety and quieter operation.

QUICK HEATING — Durable, cycle tested, heavy gauge aluminized steel heat exchanger and stainless steel secondary heat exchanger quickly transfer over 90% of the heat to provide warm conditioned air to the structure. Low energy power vent blower, to increase efficiency and provide a positive discharge of gas fumes to the outside as it draws outdoor air in for sealed combustion, which means it uses no indoor air for combustion.

Since Trane has a policy of continuous product and product data improvement, it reserves the right to change specifications and design without notice.

Technical Literature • Printed in U.S.A.

Trane
6200 Troup Highway
Tyler, TX 75707

BURNERS — Multi-port, in-shot burners will give years of quiet and efficient service. All models can be converted to L.P. gas without changing burners.

INTEGRATED SYSTEM CONTROL — Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. The built-in, selectable "Cooling Fan Off" feature provides time-delay capability like a BAY24X045 Time-Delay Kit for cooling operation. Also contains connection points for E.A.C./humidifier.

AIR DELIVERY — The multispeed, direct-drive blower motor, with sufficient airflow range for most heating and cooling requirements, will switch from heating to cooling speeds on demand from room thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed. (Fan relay and 35VA control transformer is standard).

STYLING — Heavy gauge steel and "wraparound" cabinet construction is used in the cabinet with baked-on enamel finish for strength and beauty. The heat exchanger section of the cabinet is completely lined with foil-faced fiberglass insulation. This results in quiet and efficient operation due to the excellent acoustical and insulating qualities of fiberglass.

FEATURES AND GENERAL OPERATION — These High Efficiency, Direct Vent, Condensing Gas Furnaces employ a Hot Surface Ignition system, which eliminates the waste of a constantly burning pilot. They are convertible for HORIZONTAL use by rotating the unit to its left side. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- a. Low energy power venter.
- b. Vent proving differential switch.

Library	Unitary
Product Section	Furnaces
Product	Furnace
Model	TUH1
Literature Type	Submittal
Sequence	
Date	05/09
File No.	TUH1C100A-SUB-1A
Supersedes	TUH1C100A-SUB-1



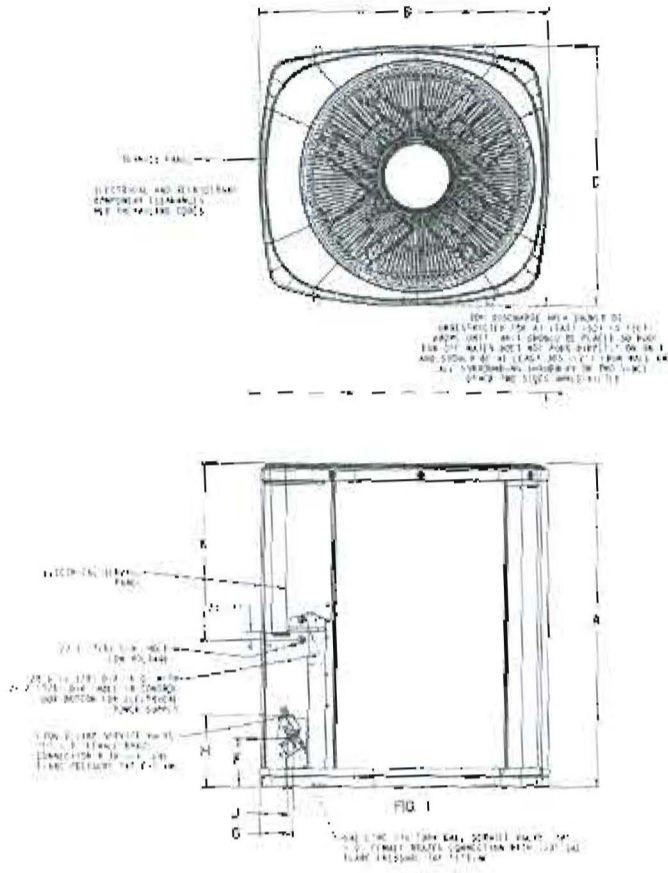
TAG: _____

SUBMITTAL

NOTE: All dimensions are in mm/inches.

4 Ton Split System Cooling — 3 Phase

4TTA3048A



From Dwg. 210153074 Rev. 13

Product Specifications

OUTDOOR UNIT ①②	4TTA3048A3000A	4TTA3048A4000A
POWER CONNS. — V/PH/Hz ③	200/230/3/60	460/3/60
MIN. BRCH. CIR. AMPACITY	20	9
BR. CIR. MAX. (AMPS)	30	15
FACT. RTG. MIN. (AMPS)	30	15
COMPRESSOR	CLIMATUFF®-SCROLL	CLIMATUFF®-SCROLL
NO. USED - NO. SPEEDS	1 - 1	1 - 1
VOLTS/PH/Hz	200/230/3/60	460/3/60
R.L. AMPS ④ - L.R. AMPS	14.6 - 9.7	6.4 - 4.6
FACTORY INSTALLED START COMPONENTS ⑤	NO	NO
INSULATION/SOUND BLANKET	NO	NO
COMPRESSOR HEAT	YES	YES
OUTDOOR FAN	PROPELLER	PROPELLER
DIA. (IN.) - NO. USED	27.6 - 1	27.6 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1	DIRECT - 1
CFM @ 0.0 IN. W.G. ⑥	4600	4600
NO. MOTORS - HP	1 - 1/4	1 - 1/4
MOTOR SPEED R.P.M.	825	825
VOLTS/PH/Hz	200/230/3/60	460/3/60
F.L. AMPS	1.30	0.6
OUTDOOR COIL — TYPE	SPINE FIN™	SPINE FIN™
ROWS - F.P.I.	1 - 24	1 - 24
FACE AREA (SQ. FT.)	21.99	21.99
TUBE SIZE (IN.)	3/8	3/8
REFRIGERANT		
LBS. — R-410A (O.D. UNIT) ⑦	7 LBS., 4 OZ.	7 LBS., 4 OZ.
FACTORY SUPPLIED	YES	YES
LINE SIZE - IN. O.D. GAS ⑧	7/8	7/8
LINE SIZE - IN. O.D. LIQ. ⑨	3/8	3/8
CHARGING SPECIFICATION		
SUBCOOLING	10°F	10°F
DIMENSIONS	H X W X D	H X W X D
CRATED (IN.)	38.4 x 35.1 x 38.7	38.4 x 35.1 x 38.7
WEIGHT		
SHIPPING (LBS.)	253	252
NET (LBS.)	219	218

- ① Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on ARI Standard 210.243.
- ② Rated in accordance with ARI Standard 270.
- ③ Calculated in accordance with Natl. Elec. Code. Use only NACR output breakers or fuses.
- ④ Standard Air — Dry Coil — Outdoor.
- ⑤ This value approximate. For more precise value see unit nameplate.
- ⑥ Max. linear length 60 ft.; Max. lift — Suction 60 ft.; Max. lift — Liquid 80 ft.
- ⑦ For greater length consult refrigerant piping software Pub. No. 32-33/2-07 (" denotes latest revision).
- ⑧ This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.
- ⑨ No means no start components, Yes means quick start kit components, PTC denotes positive temperature coefficient starter.

MODELS	BASE	FIG.	A	B	C	D	E	F	G	H	J	K
4TTA3048A3M	4	1	841 (33-1/8)	846 (33-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)

A-weighted Sound Power Level [dB(A)]

MODEL	SOUND POWER LEVEL [dB(A)]	A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)]							
		63	125	250	500	1000	2000	4000	8000
4TTA3048A3/4	79	47.4	60	68.3	75.3	73.5	70.3	62	51.4

Note: Tested in accordance with ARI Standard 270.95. (Not listed with ARI)

Mechanical Specification Options

General

The 4TTA3 shall be fully charged from the factory for matched indoor section and up to 15 feet of piping. This unit must be designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities shall be matched with a wide selection of air handlers and furnace coils that are A.R.I. certified. The unit shall be UL listed. Exterior must be designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint. Corrosion and weatherproof CMBP-G30 Duraluff™ base.

Refrigerant Controls

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. Another standard feature is the liquid line dryer.

Compressor

The Climatuff® compressor features internal over temperature and pressure protector, total dipped hermetic motor and thermostatically controlled sump heater. Other features include: rpto lock suction and discharge refrigeration connections, centrifugal oil pump, and low vibration and noise. The Climatuff® compressor is standard with a 5 year limited warranty.

Condenser Coil

The Spine Fin™ coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 5/16 inch O.D. seamless aluminum glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels and has a 5 year limited warranty.

Low Ambient Cooling

As manufactured, this unit has a cooling capability to 55°F. The addition of an evaporator defrost control permits operation to 40°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.

Accessories

Thermostats — Heating/Cooling (manual and automatic changeover). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control — See Low Ambient Cooling.

Outdoor Thermostat — Supplemental heat outdoor ambient lockout from 46 to -10°F.



Trane
A business of
American Standard Companies
www.trane.com

Trane has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.



CITY OF PORTLAND, MAINE
Department of Building Inspections

Original Receipt

7-22-20 11

Received from Johnson - [unclear]

Location of Work 37 F- [unclear]

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 360

Building (1L) _____ Plumbing (15) _____ Electrical (12) _____ Site Plan (U2) _____

Other _____

CBL: 37 11 12

Check #: 17501 Total Collected \$ 360

**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