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Jeff Levine, AICP, Director Director of Planning and Urban Development

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, upon receipt of an e-mailed invoice from Building Inspections, which signifies that my electronic permit application and corresponding paperwork have been received, determined complete, entered by an administrative representative, and assigned a permit number, I then have the following four (4) payment options:

to provide an on-line electronic check or credit/debit card (we now accept American Express, Discover, VISA, and MasterCard) payment (along with applicable fees beginning July 1, 2014),

□ call the Inspections Office at (207) 874-8703 and speak to an administrative representative to provide a credit/debit card payment over the phone,

] hand-deliver a payment method to the Inspections Office, Room 315, Portland City Hall,

or deliver a payment method through the U.S. Postal Service, at the following address:

City of Portland Inspections Division 389 Congress Street, Room 315 Portland, Maine 04101

Once my payment has been received, this then starts the review process of my permit. *After all approvals have been met and completed*, *I will then be issued my permit via e-mail.* No work shall be started until I have received my permit.

Date: 11/10/2014 Applicant Signature

I have provided digital copies and sent them on:

Date:

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

Room 315 - 389 Congress Street- Portland, Maine 04101 (207) 874-8703 - Fax: 874-8716 - TTY: 874-8936



FILL IN AND SIGN WITH INK

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



To the Inspector of Buildings, Portland Maine:

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

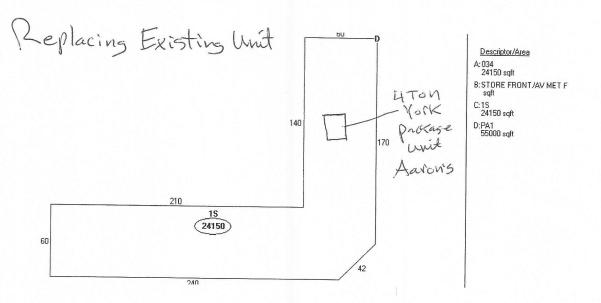
| Address/CBL: 1041 Brighton Ave Use of E | Building: Aaron's Unit Date: 11/10/2014 | | |
|--|---|--|--|
| Name and Address of Owner: 1041 Brighton Ave, LLC One | e Canal Plaza Portland, Maine 04101 | | |
| Phone Number Owner: 207-871-1290 E-Mail | : Owner: gmckellar@boulos.com | | |
| Name and Address of Installer: Patriot Mechanical 59 Sanfe | ford Drive Suite #5 Gorham, Maine 04038 | | |
| Phone Number Installer: 207-839-9500 E-Mail: | : Installer: paul@patriotmechanicalmaine.com | | |
| Location of Appliance: | Type of Venting: (<i>Plan required for submittal</i>) □Masonry Lined | | |
| 🗆 Attic 🔳 Roof | □Factory Built: □Metal | | |
| Type of Fuel: Gas Dil Solid | □Factory Built UL Listing: ■Direct Vent Type: Side Vent on and *UL #: | | |
| Appliance Name: 4 Ton York Package Unit | # of Tanks: | | |
| UL Approved: Yes 🗆 No | Type of Fuel Tank: | | |
| Will appliance be installed in accordance with the | □ Gas □ Oil | | |
| manufacturer's installation instructions? Yes No | Size of Tank: Piped in Natural Gas | | |
| Type of License of Installer: Master Plumber #: | Distance from tank to center of flame: | | |
| Solid Fuel #: | | | |
| Oil #: | Cost of Work: \$ 5,789.00 | | |
| Gas #: Lic# PNT2353 | | | |
| Other: | Permit Fee: \$ 80.00 | | |

Paul Bufes Signature of Installer:

E:Mail: paul@patriotmechanicalmaine.com

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SUBMITTAL DATA

For: Approval

Order #:

Date: 11/10/2014

Project: PATRIOT CASTLE NAILS

Project #:

Location:



Submittal Summary Page

| Qty | Tag # | Model # | Description |
|-----|-------|----------------|---|
| 1 | | ZF048N10N2AAA2 | 4 Ton, York Sunline Single Packaged R-410A Air Conditioner, 13.0 SEER / 11.0 EER, Single Stage Cooling, 100 MBH Output Aluminized Steel, Single Stage Gas Heat, 1.5 HP Standard Static Belt Drive Blower, 1" Throwaway Filters, 208/230-3-60, Microchannel Condenser Coil, Galvanized Steel Drain Pan |
| 1 | | 2EE04703724 | Single Enthalpy Economizer (Downflow or Horizontal Unit) with Hood Kit |
| 1 | | 1RD0410 | Barometric Relief Damper with Hood Kit (Downflow Unit or Duct Mounted) |

Equipment start-up and commissioning by a factory trained technician is recommended. Contact your supplying distributor or sales representative for additional information & guidance.



Single Package R-410A Air Conditioner



Project Name: PATRIOT CASTLE NAILS

Unit Model #: **ZF048** System: **ZF048** Date Approved with Condition 12/12/14

Quantity: 1

No Performance Data Available

Run Performance to view metrics





4 Ton

• York Units are Manufactured at an ISO 9001 Registered Facility and Each Rooftop is Completely Computer-Run Tested Prior to Shipment.

Unit Features

- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards)
 - Through-the-Curb and Through-The-Base Utility Connections
- Either Supply and/or Return can be Field Converted from Vertical to Horizontal Configuration without Cutting Panels.
- · Full Perimeter Base Rails with Built in Rigging Capabilities
- Galvanized Steel Drain Pan
- Reciprocating Compressor
- Single Stage Cooling
- Solid Core Liquid Line Filter Driers
- Microchannel Condenser Coil
- 100 MBH Output Aluminized Steel, Single Stage Gas Nominal Heat
- 1.5 HP Standard Static Belt Drive Blower
- Unit Ships with 1" Throwaway Filters with a Standard Filter Rack That Will Accept up to 2" Filters
- Single Point Power Connection
- Short Circuit Current: 5kA RMS Symmetrical

Standard Unit Controller: Simplicity Control Board

- An Integrated Low-Ambient Control, Anti-Short Cycle Protection, Lead-Lag, Fan On and Fan off Delays, Low Voltage Protection, On-Board Diagnostic and Fault Code Display.
- Safety Monitoring Monitors the High and Low-Pressure Switches, the Freezestats, the Gas Valve, if Applicable, and the Temperature Limit Switch on Gas and Electric Heat Units. The Unit Control Board will Alarm on Ignition Failures, Safety Lockouts and Repeated Limit Switch Trips.

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty Compressors and Electric Heater Elements
- Ten (10) Year Warranty Aluminized Steel Tubular Heat Exchangers



Single Package R-410A Air Conditioner



2/12/14

| Project Name: PATRIOT CASTLE NAILS | | Unit Model #: ZF048 |
|--|---------------|--|
| Quantity: 1 Factory In | stalle | System: ZF048 Date: |
| | <u>istanc</u> | |
| ZF0481 | <u>N10N</u> | 2AAA2 |
| Product Category: | Z | York Sunline Single Packaged R-410A Air Conditioner |
| Product Identifier: | F | 13.0 SEER / 11.0 EER |
| Nominal Cooling Capacity: | 048 | 4 Ton Single Stage Cooling |
| Heat Type and Nominal Heat Capacity: | N10 | 100 MBH Output Aluminized Steel, Single Stage Gas Heat |
| Airflow: | Ν | 1.5 HP Standard Static Belt Drive Blower 1" Throwaway Filters |
| Voltage: | 2 | 208/230-3-60 |
| Installation Options: | Α | |
| Additional Options: | AA | Microchannel Condenser Coil Galvanized Steel Drain Pan |
| Product Generation: | 2 | |
| | | |
| Field Instal | led Ac | cessories |
| 2EE04703724 - Single Enthalpy Economizer (Downflow or Horizontal Unit) with Hood Kit (50.0 lbs) | | |
| 1RD0410 - Barometric Relief Damper with Hood Kit (Downflow Unit or Duct Mounted) (6.0 lbs) | | |

Single Package R-410A Air Conditioner



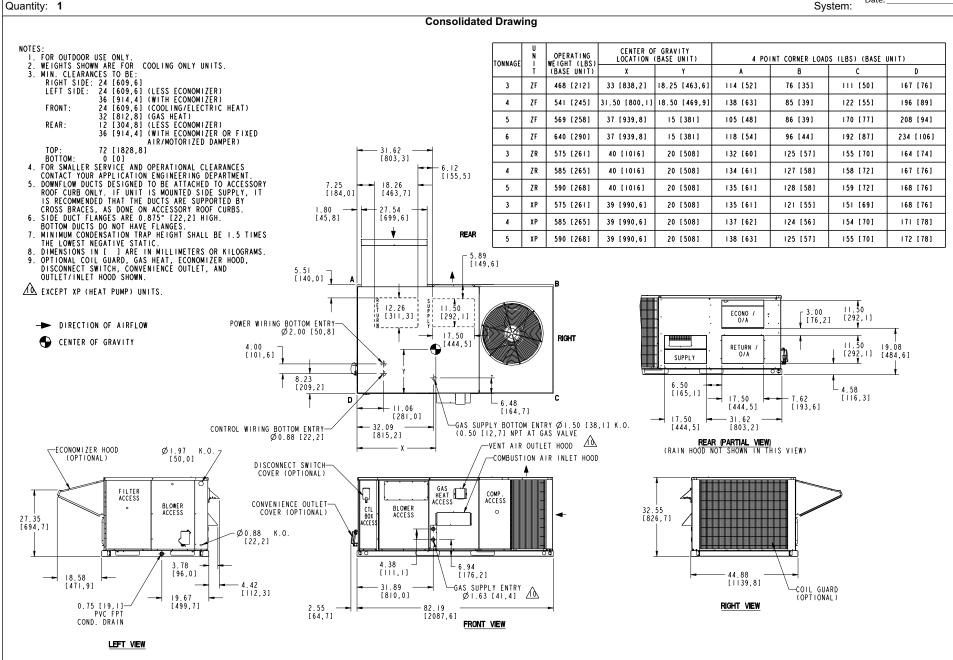
Inspections Division Approved with Conditions

12/12/14

Unit Model #:

Date

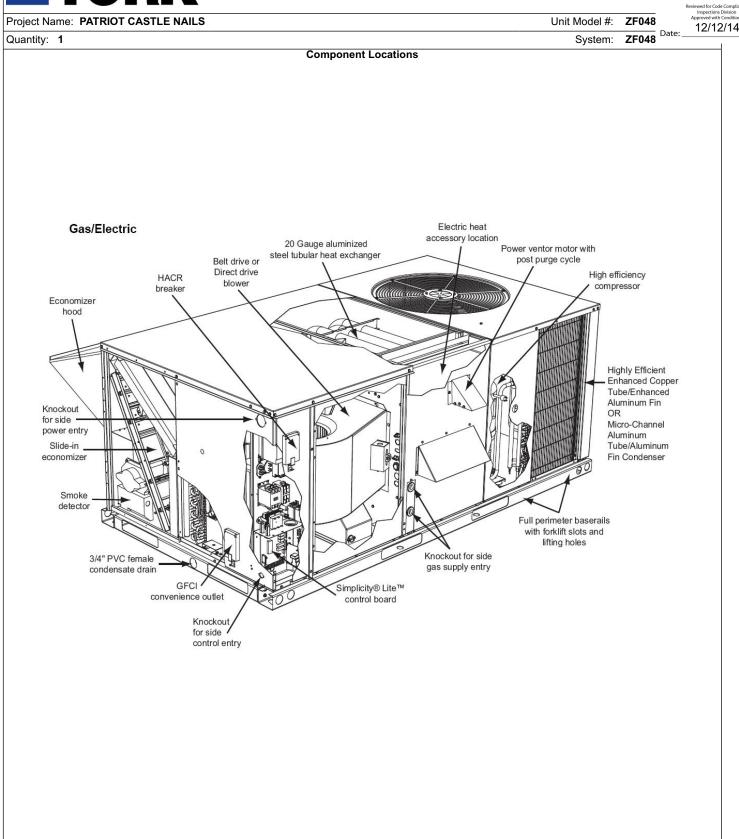
Project Name: PATRIOT CASTLE NAILS





Single Package R-410A Air Conditioner





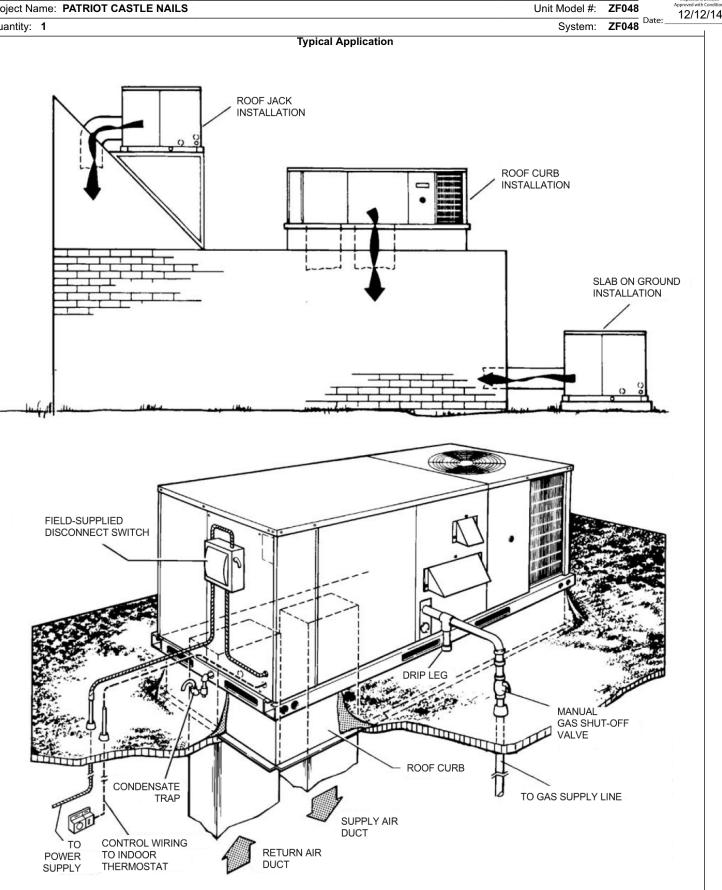


Single Package R-410A Air Conditioner



Project Name: PATRIOT CASTLE NAILS







Single Package R-410A Air Conditioner





CONTACTOR \sim

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Unit Model #: ZF048

System:

12/12/14

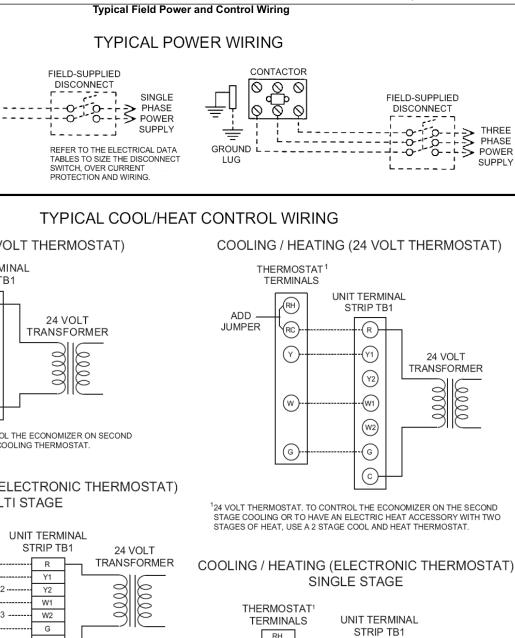
Date

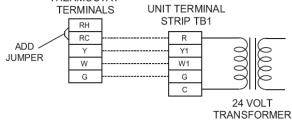
ZF048



GROUND

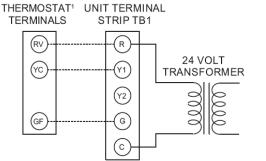
LUG





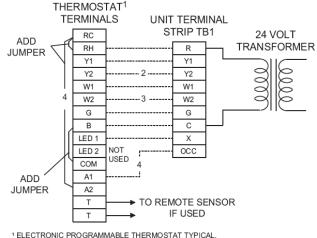
¹ELECTRONIC PROGRAMMABLE THERMOSTAT TYPICAL. TO CONTROL THE ECONOMIZER ON SECOND STAGE COOLING, USE A 2 STAGE COOL AND HEAT THERMOSTAT.

COOLING ONLY (24 VOLT THERMOSTAT)



124 VOLT THERMOSTAT. TO CONTROL THE ECONOMIZER ON SECOND STAGE COOLING, USE A 2 STAGE COOLING THERMOSTAT.

COOLING / HEATING (ELECTRONIC THERMOSTAT) MULTI STAGE



² SECOND STAGE COOLING IS NOT REQUIRED ON UNITS LESS ECONOMIZER.

- 3 SECOND STAGE HEATING IS ONLY REQUIRED ON UNITS WITH A TWO STAGE ELECTRIC HEATER OR 2 STAGE GAS HEAT.
- 4 REMOVE JUMPER J2 FROM TERMINALS 4 AND 9 ON JUMPER PLUG CONNECTOR P6 ON UNITS WITH ECONOMIZER. TERMINALS A1 AND A2 PROVIDE A RELAY OUT-PUT TO CLOSE THE OUTDOOR ECONOMIZER DAMPERS WHEN THE THERMOSTAT SWITCHES TO THE SET-BACK POSITION



Single Package R-410A Air Conditioner



Project Name: PATRIOT CASTLE NAILS

Unit Model #: ZF048 System: ZF048

12/12/14

Quantity: 1

ZF048 Date: ____

Seismic Certification

((
)) DCL Dynamic Certification Laboratories

SPECIAL SEISMIC CERTIFICATION OF NON-STRUCTURAL COMPONENTS AND SYSTEMS



CERTIFICATE OF COMPLIANCE

Dynamic Certification Laboratories has qualified the listed packaged rooftop units as CERTIFIED for seismic applications in accordance with the following codes and standards:

CBC 2010, IBC 2009, ICC-ES AC-156 2010, ASCE 7-05

The following model designations are included in this certification. A complete list of certified models, options, and installation methods are detailed in report number 90300-1108a by Dynamic Certification Laboratories, provided by the equipment manufacturer upon request.

Unitary Product Group Packaged Rooftop Units (UPG)

Seismic Qualification Testing was conducted in accordance with and in strict adherence to the standards set forth within the American Society of Civil Engineers (ASCE 7) by the independent approval agency, Dynamic Certification Laboratories. The above referenced equipment is APPROVED for seismic applications when properly installed and used as intended.

The basis of this certification is through testing of the active and energized components per AC156. This certification covers multiple UPG brands, including York, Johnson Controls, Coleman, Luxaire, Evcon and Fraser-Johnston.

The seismic values are obtained from the Maximum Considered Earthquake Short Period Spectral Response Acceleration, Sds, as determined by the ASCE 7 seismic maps. Various installation locations/isolation configurations are covered under this certification, limited by the Sds value stated in the following table. A seismic importance factor, Ip, of 1.5 applies to this certification to include essential facility requirements and life safety applications for post event functionality. The units are approved for both a rigid and flexible mount configuration.

| Maximum Design Sds Values of UPG Packaged Rooftop Units | | | | | |
|---|--------------------|------------|---------|-------|--|
| Series | Model | Tons | Sds (g) | Fp/Wp | |
| XP/XA/J0*XP/T0* | 036, 048, 060 | 3, 4, 5 | 2.5 | 1.88 | |
| ZF/ZS/J0*ZF/JA*ZF/T0* | 036, 048, 060, 072 | 3, 4, 5, 6 | 2.5 | 1.88 | |
| ZR/ZK/J0*ZR/T0* | 036, 048, 060 | 3, 4, 5 | 2.5 | 1.88 | |

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Dynamic Certification Laboratories 1315 Greg Street, Suite 109, Sparks, NV 89431 – ph: 775-358-5085

www.shaketest.com



Single Package R-410A Air Conditioner



Project Name: PATRIOT CASTLE NAILS

Quantity: 1

Unit Model #: ZF048

System:

ZF048 Date: 12/12/14

Seismic Certification

(()) DCL Dynamic Certification Laboratories

SPECIAL SEISMIC CERTIFICATION OF NON-STRUCTURAL COMPONENTS AND SYSTEMS



CERTIFICATE OF COMPLIANCE

| Table of Seismic Design Parameters | | | | | | |
|------------------------------------|-----|----------------|----------------|----------------|-----|--|
| Site Class | Fa | l _p | a _p | R _p | z/h | |
| D | 1.0 | 1.5 | 2.5 | 6.0 | 1.0 | |

Site and Project Requirements

It is the responsibility of the Design Professional of Record to:

- Provide engineering for the anchorage and restraint of the unit
- Validate Cerftfication Design Parameters with actual site conditions
- Provide engineering of all equipment support structures
- Confirm component configuration

Cerftficafton Issued by: Dynamic Cerftficafton Laboratories Document Control Number: 90300-1108a-1 Issue Date: 12/19/11



Dr. Ahmad Itani, SE Dynamic Cerftficafton Laboratories

Randy Forristall YORK Unitary Engineering Johnson Controls, Incorporated

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