| City of Portland, Main 389 Congress Street, 0410 | 1 Tel: (207) 874-8703 | , Fax: (207) 874-87 | 16 | 10-0645 | | | 037 D0 | 02001 | |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------|--------------------------------------|---------------------------|-------------------------|----------------------------------|-----------------------|--|
| Location of Construction: | Owner Name: | <u> </u> | Own | er Address: | | | Phone: | | |
| 511 Congress St | 511 Plaza Lim | ited Partnership | One | Canal Plaza | L | | | | |
| Business Name: | Contractor Name | : | Cont | ractor Address: | | | Phone | Phone | |
| | Patriot Mechan | nical LLC | Po | Box 747 Gorh | am | | 20883995 | 00 | |
| Lessee/Buyer's Name | Phone: | | | it Type: | | | | Zone: - | |
| | | | H | /AC | | | | 12- | |
| Past Use: | Proposed Use: | | Perr | nit Fee: | Cost of Wor | k: | CEO District: | 1 | |
| Commercial | | Install two 3 ton | | \$140.00 | _ \$11,34 | 4.00 | 1 | <u> </u> | |
| | cooling units of | n the roof. | FIR | E DEPT: | Approved | INSPEC | | | |
| | | | ļ | Ξ | Denied | Use Gre | oup: | Type: V | |
| | | | | | - | ا → _ ـ ـ | 4 - 2 2 4 7 | Type: | |
| _ _ | | | _ | | | 1 1 | 16-2003 | > | |
| Proposed Project Description: | | | 1 | | | 1 | nc-2003 re: Jub 6 | 1,1 | |
| Install two 3 ton cooling unit | ts on the root. | | | ature: | IIIII S | Signatu | re: MB b | <u>//5//b</u> | |
| | | | PED | ESTRIAN ACTI | VITIES DIST | KICT (F | T (P.ALU.) / / | | |
| | | | Acti | on: 🗌 Approv | ed 🗌 App | roved w/ | Conditions | Denied | |
| | | | Sign | ature: | | | Date: | | |
| Permit Taken By: | Date Applied For: | | L8 | | Approx | | | | |
| gg | 06/04/2010 | | | Zoning | Approva | 11 | | | |
| This permit application | | Special Zone or Re | iews | Zoning Appeal Variance | | | Historic Pres | ervation | |
| Applicant(s) from meeti Federal Rules. | | Shoreland | | | | | Not in District or Landm | | |
| Building permits do not septic or electrical work | | Wetland | Miscellaneous | | | Does Not Require Review | | | |
| 3. Building permits are volume within six (6) months of | | ☐ Flood Zone | | Conditional Use | | | Requires Review | | |
| False information may i permit and stop all work | nvalidate a building | Subdivision | | ☐ Interpretation ☐ Approved | | | Approved | | |
| | | Site P(an | | | | | Approved w/Conditions | | |
| | | Maj ☐ Minor ☐ M | M 🗆 | Denied | | | Denied | | |
| | | Data | MX | Data | | | ate: | | |
| | | Date. | 1.0 | Dator | | | <u> </u> | | |
| | |) 40 | 110 | | | | | | |
| | | CERTIFICAT | 'ION | | | | | | |
| I hereby certify that 1 am the I have been authorized by the jurisdiction. In addition, if a shall have the authority to en such permit. | e owner to make this appl permit for work describe | uned property, or that ication as his authori d in the application is | the pr zed age issued | ent and I agree I, I certify that | to conform the code of | to all a ficial's | pplicable laws authorized rep | of this resentativ | |
| SIGNATURE OF APPLICANT | | ADDRI | | | DATE | | | | |

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

DATE

PHONE



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| | | | * - | |
| Cost of Construction | \$ | Buildin | g Fee: | |
| Permit Fee | \$ | Site | Fee: | |
| | Certific | cate of Occupancy | Fee: | , |
| | | T | otal: | VO. 68 |
| Building (IL) Plun | nbing (15) | Electrical (I2) | Site Pla | n (U2) |
| | VAC | | • | |
| CBL: 637 | • | | • | • |
| Check #: 15 | | | و المعادة | |
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| Place to | b etight | freceipt for | your n | ecords. |
| U | 4 ~ | | a. | |
| Taken by: | Lugh | | ,,,,,,,,,, | |
| | | <u></u> | | • |
| WHITE - Applicant's Co YELLOW - Office Copy | | | 1 | |

| City of Portland, Main | ne - Building or Use Permi | t | Permit No: | Date Applied For: | CBL: |
|-----------------------------------------------------|-----------------------------------------|---------------------|-------------------------|-----------------------|---------------------|
| 389 Congress Street, 041 | 01 Tel: (207) 874-8703, Fax: (| (207) 874-871 | 6 10-0645 | 06/04/2010 | 037_D002001 |
| Location of Construction: | Owner Name: | | Owner Address: | | Phone: |
| 511 Congress St | 511 Plaza Limited Par | One Canal Plaza | | | |
| Business Name: | Contractor Name: | | Contractor Address: | | Phone |
| | Patriot Mechanical LI | .C | Po Box 747 Gorha | m_ | (208) 839-9500 |
| Lessee/Buyer's Name | Phone: | | Permit Type: | | |
| | |] | HVAC | | |
| Proposed Use: | | Propos | ed Project Description: | | |
| Commercial / Install two 3 | ton cooling units on the roof. | Insta | l two 3 ton cooling | units on the roof. | |
| | | { | | | |
| | | ſ | | | |
| | | ŗ | | | |
| | | | | | |
| Dept: Zoning | Status: Approved with Condition | ıs Reviewe ı | : Marge Schmucka | al Approval D | Pate: 06/08/2010 |
| Note: | | | | | Ok to Issue: 🗹 |
| 1) The underlying B-3 Zo | ne has requirements regarding the | maximum noise | levels allowed. Th | ese proposed units s | hall meet the |
| following requirements | . From 7:00 am to 9:00 pm the ma | ximum dBAs p | ermited is 60. From | 9:00 pm to 7:00 am | the maximum |
| | t is the responsibility of the applic | | | | |
| | es the level of sound generated on | property. The | property owner may | have to take mitigat | ing steps to reduce |
| noise produced by these | e unis. | | | | |
| Dept: Building | Status: Approved with Condition | is Reviewer | : Jeanine Bourke | Approval D | ate: 06/15/2010 |
| Note: | | | | | Ok to Issue: 🗹 |
| 1) Separate permits are re- | quired for any electrical, plumbing | . sprinkler, fire | alarm HVAC syste | ms, heating appliance | es, commercial |
| | nd fuel tanks. Separate plans may | | • | | • |
| Application approval b and approrval prior to v | ased upon information provided by work. | y applicant. Any | deviation from app | roved plans requires | separate review |
| 3) Installation shall compl | y with 2003 International Mechan | ical Code. | | | |

PERMIT ISSUED

JUN - 4 2010

City of Portland



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

White - Inspection

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| APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT |
|---------------------------------------------------|
| _ |

| The undersigned hereby applies for a permit to instal accordance with the Laws of Maine, the Building Code of the | I the following heating, cooking or power equipment in |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| , , , , , , , , , , , , , , , , , , , | |
| Location / CBL 511 CONFILES STATET | Use of Building Susiness Date 6/3/10 |
| Name and address of owner of appliance Boulos Profits ONE CANAL PLAZA PORTLAND | ME. |
| Installer's name and address PATRIOT MECHANICAL | 11C. Romano |
| 7.6. BOX 747 GOAHAM, Mt. OFO38 | Telephone 207-839-9500 |
| Location of appliance: 2-3TON UNITS | Type of Chimney: |
| Basement Floor CONDENSENS | ☐ Masonry Lined |
| Basement Floor Cond The 1200F | Factory built |
| | AT . |
| Type of Fuel: | ☐ Metal |
| Gas Oil Solid COOLING ONLY Duct Less SPLIT Appliance Name: Systems | Factory Built U.L. Listing # |
| Appliance Name: Systems | ☐ Direct Vent |
| U.L. Approved Y Yes No | Type UL# |
| 4 | |
| Will appliance be installed in accordance with the manufacture's | Type of Fuel Tank RECEIVED |
| installation instructions? Yes | □ Oil Ass |
| X | □ Oil 为皇 □ Gas 社会 JUN - 4 2010 主会: |
| IF NO Explain: | 2 Sus - 2 ON 4 2010 |
| | Size of Tank Dept. of Building Inspections City of Portland Maine |
| | City of Portland Maine |
| The Type of License of Installer: | Number of Tanks |
| ☐ Master Plumber # | |
| □ Solid Fuel # | Distance from Tank to Center of Flame feet. |
| Oil # | |
| Gas # | Cost of Work: \$//, 344-00 |
| Other <u>059700346 RSES</u> | Permit Fee: S \\O,O() |
| Approved | Approved with Conditions |
| Fire: | ☐ See attached letter or requirement |
| Ele.: | - |
| | |
| Bldg.: Signature of Installer | Inspector's Signature Date Approved |
| | Pink - Applicant's Gold - Assessor's Copy |

Pink - Applicant's

Patriot Mechanical LLC

PO Box 747 Gorham ME 04038 Ph: 207-839-9500

Fax: 207-857-7201

Proposal =

| Boutos Property Managem | ent – | | 76 | ate | 3/8/2010 |
|---------------------------------------------------------------|-------------|------------------|-------------|-------------|---------------------------------------|
| One Canal Plaza | | · ·· | - | ontact | Greg Mckellar |
| Portland St | ate ME | ZIP 04101 | — J I | | |
| Site location - 511 Congre | s Matec 6 | erver room |) | | |
| Description of work to be | overed in s | this contract; | | | |
| Patriot Mechanical shall pr system's for a total of 6 tor | | | install Tv | io Bryent l | 3 ton ductiess split |
| This unit's shall be totally -20 degree ambient Tempo | • | nt for redundand | y. R-410 | A low amb | ient to |
| A partition wall will have to The partion wall to be built | be built to | | ware foot | age silowi | ng for 6 ton of cooling |
| included in this Proposel i | | | | | |
| all related Refrigerant pipi start up report with a One | • | ~ . | | piping, co | ondensate pump. |
| EXCLUDED FROM THIS I AND LINE VOLTAGE WIR | ING AND | PARTION WALL | | | , , , , , , , , , , , , , , , , , , , |
| Total cost labor and materi Three hundred Forty four D | | osed work shall | be \$11. 34 | 14.80 (Ele | even Thousand |
| Please note: These units d conditions. | o not quity | for any rebates | due to un | its era spi | eced for low ambient |
| Material cost \$9,244.00 Labor cost \$2,080.00 | _4 | _ | | | |
| Customer signature: | MI | MM | | | Date: 5/24/10 |
| Patriot Mechanical LLC | Peni | Builey | <u></u> | | Date: 3/2/10 |

HVAC SERVICE- PREVENTIVE MAINTENANCE-OILIGAS BURNERS 24

By signing this estimate, you agree to the above terms.

June 1, 2010

Paul Baillargeon Patriot Mechanical LLC P.O. Box 747 Gorham ME. 04038

Re: Structural Evaluation, 511 Congress Street, Portland, ME

HWE P/N 10-027

Dear Paul:

At your request. I inspected the visible structural framing of the roof of 511 Congress Street in Portland. Maine. The two-story building part of the building where the HVAC system will be installed steel truss framing supporting a corrugated metal deck with 3-inch concrete. The roofing is partly a built-up roofing system and partly a rubber membrane system. No structural drawings were found, and limited architectural drawings were viewed. There is a fire wall running parallel to the street in the area where the units will go, with the trusses at 30-36" parallel to this wall. The trusses are 24" deep, with various equipment supported off the bottom of the trusses and a ceiling below this equipment. The framing and corrugated metal deck are in good condition where visible.

A Bryant 538E018 unit weighing 250# will be installed on the roof. With accessories and surbing, the equipment may reach 350#. The unit is approximately 3'-8" x 1'-5". The roof framing appears to be structurally adequate to support this load.

Sleepers will be installed on the deck, cut into the insulation and bolted to the deck, to bring the surface to or above the roofing level, then the roofing will go over the sleepers and the equipment sleepers will be bolted to the shim sleepers. The bolts should penetrate the concrete by 1½".

If needed. I can inspect the completed supports and provide a letter stating that the supports are adequate. Let me know when the work is ready for inspection if this is needed.

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

Fours truly,

Illelen C. Warts. PF.

HELEN C.

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Fig. 2 — \$36E,A Unit Dimensions

RICHT STOE VELL

FROM VIEW



installation, start-up and 508E service instructions 538A

Carrolla: New

II 538A,E-18-1 1/15/06

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| II. Step 2 - Rig and Mount Unit | | 1 |
| III. Step 8 — Complete Refrigerant Piping Connections | | |
| | | |
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| START-UP | | 11 |
| SERVICE | | .11-14 |
| MAINTENANCE | | 14 |
| TROUBLESHOOTING | | 14.15 |

SAFETY CONSIDERATIONS

Installing and servicing air conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install or service air conditioning equipment.

Untrained personnel can perform basic maintenance, such as cleaning and replacing filters. All other operations should be performed by trained service personnel. When working on air conditioning equipment, observe sefety precautions in literature, tags, and lobels attached to unit.

Follow all safety rades. Wear anfety glasses and work gloves. Use quenching rinth for brazing operations. Have fire extinguisher available. Rend these instructions thoroughly. Consult local building codes and the National Electrical Code (NEC) for special installation requirements.





INSTALLATION

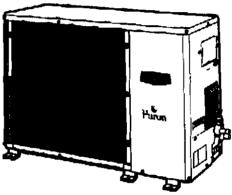
I. STEP 1 — COMPLETE PRE-INSTALLATION CHECKS

A. Unpack Unit (See Fig. 1)

Move the unit to final location. Remove unit from carton, being careful not to damage service valves and grilles.

B. Inspect Shipment

File a claim with the shipping company if shipment is damaged or incomplete. Check unit nameplate to ensure unit matches job requirements



Flat 1 - STOE A Units

C. Consider System Pequirements

Consult local building codes and NEC for special installation requirements.

Allow sufficient space for airflow clearence, wiring, refrigerant piping, and servicing unit. See Fig. 2.

Locate unit so that condenses airflow is unrestricted on both sides. Refer to Fig. 2.

Unit may be mounted on a level paid directly on base legs or mounted on raised paids at Support points. See Fig. 2 for cantar of gravity.

D. Matching the Condensing Unit to an Indoor Unit

The 538E018-036 dust free condensing units and 538A018-060 ducted condensing units can be matched to corresponding indoor units. The 538E018-036 units can be matched with an in-ceiling cassetts or high wall indoor unit. The 538A unit can be matched with under-ceiling and residential fan coils. Referto separate indoor unit literature for more information.

IL STEP 2 --- FING AND MOUNT UNIT

A. Mounting on Ground

Mount unit on a solid, level concrete gaid. Position unit so water or fee from roof does not fall directly onto unit. Accessory stacking kits can be used when units are to be stacked See installation instructions provided with the accessory kit. Use field provided snow stand or ice rack where prolonged subfreezing temperatures or heavy snow uccurs.

If conditions or local codes require unit be featured to a pad, 6 field supplied tiedown bolts should be used and featured through slots provided in unit mounting feet.

B. Mounting on Roof

Mount unit on a level platform or frame at least 6 in. Ahove roof surface. Isolate unit and tubing from structure.

Only use factory specified liquid-line filter driers with rated working pressures less than 600 page.

NOTE: Do not install a suction-line filter drier in liquid line.

C. Make Piping Sweet Connections

Remove plastic caps from liquid and suction service valves. Use refrigerant grade tubing. Service valves are closed from the factory and are ready for brazing. After wrapping the service valve with a wet cloth, the tubing set can be brazed to the service valve using either silver bearing or non-silver hearing brazing material. Consult boul code requirements. Refrigerant tubing and the induor coil are now ready for leak testing.

NOTE: Unit is shipped with R-410A factory charge indicated on nameplate.

Pass nitrogen or other there yas through piping while brazing to prevent formation of copper oxide



D. Provide Balety Relief

A fusible plug is located in unit suction line; do not cap this plug. If local code requires additional safety devices, install as directed.

Table 1A - 535E018-036 Physical Data

| UPST SIGE | 018 | 024 | 020 | 036 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------|
| COMMAL CAPACITY (Time) | 1.5 | 2.0 | 2.50 | 6.0 |
| PERATING WEIGHT (Ib) | 166 | 176 | 187 | 250 |
| MAPPHOERANT TYPE | | | R-410A | |
| METHING DEVICE | | AccuRa | Mar (Located at Fam Co | ii) |
| CHAPTER (D)" | 4.8 | 5,9 | 5.0 | 7.1 |
| DUTDOOR PAN Flynn/Olm Clamater (in.) No. States Notor (im) | 840/1720 18 3 | 940/1720 18 3 | 840/1780 18 3 | 850/3600 24 3 1/4 |
| SUTDOON COIL. Pace Ares (sq ft) No. Roses FPI | 5.82 2 20 | 7.27 3 20 | 7.27 3 20 | 12.1 2 20 |
| echi PARSSUAE SWITCH Cut-in (paig) Cutout (paig) | 490 ± 25 660 ± 10 | 420 ± 25 650 ± 10 | 420 ± 25 650 ± 10 | 420 ± 25 660 ± 10 |
| OW PRESIDENCE SWITCH Cut-in (paig) Cutout (paig) | 45 ± 25 20 ± 5 | 45 ± 25 20 = 5 | 45 ± 25 20 ± 5 | 45 ± 25 20 ± 5 |
| REPROBRANT LINES Commission Type Liquid Line (in.) GD Vapor Line (in.) GD Max Longth (if) Max Lift (it) Max Drop (it) | ¥ ₆ ¥ ₂ 200 65 150 | ³ / _h 5/ _b 200 63 150 | Swaat *6 *74 200 65 150 | ³ / ₆ ³ / ₄ 200 86 150 |
| CONSTRESSOR Type Model Oil Charge (POE - 62) Acountulator | ZP16K5E-PFV 25.0 | ZP21K5E-PFV 26.0 | 80rol 2P25K5E-PFV 25.0 Ybs | ZP34K5P-PFV 42.0 |
| CONTROLS Fuelishe Plug (F) Control Vallage† System Vollage | 208/230 v | 208/230 ∨ | 210 24 vec 208/230 v | 206/230 v, Single and 3 Phase, 460 v, 3 Phase |
| FINISH | | | Gray | |

LEGEND

FPI - Fins Per Inch POE - Polyol Ester "Unit shipped with full factory charge. San API (Air Conditioning and Refrigeration institute) capacity table for proper charge and piston for each tan coll type

124 v and a minimum of 40 vs is provided in the fan con unit.