

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 07-0204	Issue Date:	CBL: 028 P022001
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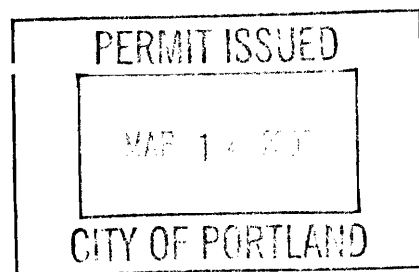
Location of Construction: 41 Middle St	Owner Name: MALONE JOSEPH M & ANN MA	Owner Address: 30 HIGHLAND ST	Phone:
Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone: 2078544822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: B2h

Past Use: Commercial -	Proposed Use: Commercial - install a TRANE natural gas heating system	Permit Fee: \$210.00	Cost of Work: \$19,000.00	CEO District: 1
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R3 Type: SB	

Proposed Project Description: install a TRANE natural gas heating system	Signature: <i>Greg Connors</i>	Signature: <i>3/14/07</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: Idobson	Date Applied For: 02/26/2007	Zoning Approval
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<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>	<p>Special Zone or Reviews</p> <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 checked="" type="checkbox"/> MM <input type="checkbox"/> Date: <i>2/27/07</i>	<p>Zoning Appeal</p> <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: _____	<p>Historic Preservation</p> <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: _____
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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

PERMIT ISSUED

To the INSPECTOR OF BUILDINGS, PORTLAND, ME. 28 P 22

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 41 28 P 22 19128 31 Middle St. Portland Use of Building Office Date 9/1/2008

Name and address of owner of appliance Joseph & ANN MARIE MALONE 30 Highland St. PORTLAND

Installer's name and address HVAC SERVICES INC 73 Bradley Drive WESTBROOK ME Telephone 207 854 4822

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 # PNT1058
 Other _____

Type of Chimney:

- Masonry Lined
Factory built _____

- Metal
Factory Built U.L. Listing # _____

Direct Vent
Type PVC UL# N/A

Type of Fuel Tank

- Oil
 Gas NATURAL

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame N/A feet.

Cost of Work: \$ 19,000

Permit Fee: \$ 210

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Signature of Installer [Signature]

Approved with Conditions

- See attached letter or requirement

Inspector's Signature _____

Date Approved _____

City of Portland, Maine - Building or Use Permit

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

Permit No: 07-0204	Date Applied For: 02/26/2007	CBL: 028 P022001
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Location of Construction: 41 Middle St	Owner Name: MALONE JOSEPH M & ANN MA	Owner Address: 30 HIGHLAND ST	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: Commercial - install a TRANE natural gas heating system	Proposed Project Description: install a TRANE natural gas heating system
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Dept: Historic **Status:** Not Applicable **Reviewer:** Deborah Andrews **Approval Date:**
Note: **Ok to Issue:**

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 02/27/2007
Note: **Ok to Issue:**

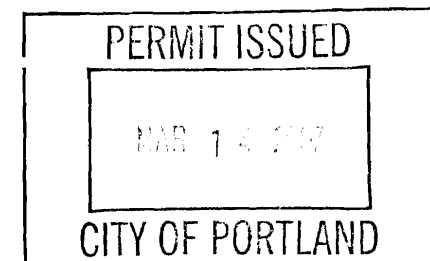
- 1) ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
- 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Tom Markley **Approval Date:** 03/14/2007
Note: **Ok to Issue:**

- 1) The installation must comply with the State of Maine Gas Regulations.
- 2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 03/01/2007
Note: **Ok to Issue:**

- 1) Install shall comply with NFPA 54



Proposal

HVAC SERVICES, INC.
73 BRADLEY DRIVE
WESTBROOK, MAINE 04092
(207) 854-4822 (207) 854-0775 (fax)

December 06, 2005
Summary: INSTALLATION
Reference #: 1760-4168
Tech: RAM
Due Date: 12/21/2005

BY: DOT Job Name:
MONAGHAN WOODWORKS INC. JOB #: 448511 NEW HEATING SYSTEM
MICHAEL MONAGHAN DATE: 11.21.06 2ND FLOOR MALONE APT
100 COMMERCIAL STREET STE 100 39 MIDDLE STREET
PORTLAND, ME 04101 PORTLAND, ME 04101

207-775-2683

207-772-6726

We Hereby Submit Specifications And Estimates For:

THE INSTALLATION OF TWO CENTRAL GAS HEATING SYSTEMS TO SERVE THE 2ND AND 3RD FLOOR APARTMENTS.

THIS SYSTEM TO INCLUDE: ULTRA EFFICIENT GAS FIRED FURNACE 92%, QUIET DIRECT DRIVE AIR HANDLER, MODULAR DX COOLING COIL (FOR FUTURE COOLING), ELECTRONIC PROGRAMMABLE THERMOSTAT FOR PRECISE CONTROL, COOLING COILS, CONDENSORS ON ROOF, FREON PIPING, FILTER RACKS WITH 2 INCH PLEATED FILTERS, SCHEDULE 40 BLACK IRON GAS MAIN, EXPOSED GRADE SPIRAL METAL DUCT SYSTEM, AND PVC CONDENSATE DRAIN SYSTEM.

*per Brent
11/14/06*

OUR WORK TO INCLUDE: EQUIPMENT HANGING AND SETTING, GAS AND VENT PIPING, LOW VOLTAGE CONTROL WIRING, DUCT WORK FABRICATION AND INSTALLATION, AND A COMPLETE START UP AS RECOMMENDED BY THE MANUFACTURER.

EXCLUSIONS: LINE VOLTAGE POWER WIRING AND STRUCTURAL PENETRATIONS AND ANALYSIS IF REQUIRED.

We propose hereby to furnish material and labor - complete in accordance with the above specifications, for the sum of: \$19,200.00

Payment to be made as follows:

25% UPON ACCEPTANCE OF CONTRACT- REQUISITION BILLING THEREAFTER THROUGH COMPLETION. FINAL PAYMENT NET 20 DAYS COMPLETION

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon delays beyond our control. Purchaser agrees to pay all costs of collection, including attorney's fees. This proposal may be withdrawn by us if not accepted by the above due date.

Authorized
Signature

Acceptance
Signature

Date

11/16/06



**ASSOCIATED DESIGN
PARTNERS INC.**

Office: 207.878.1751
Fax: 207.878.1788
e-mail: adp@adpengineering.com

80 Leighton Road • Falmouth, Maine 04105

January 18, 2007

06146

Brad Finlay
Monaghan Woodworks, Inc.
100 Commercial Street
Portland, ME 04101

RE: 39 Middle Street

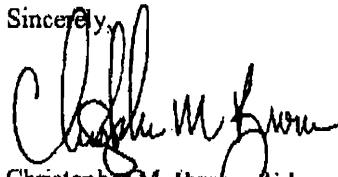
Dear Mr. Finlay,

At your request, Associated Design Partners, Inc. visited the above referenced project on January 4, 2007. This site visit was required in order to measure and document the locations of the second and third floor HVAC units in order to determine the acceptability of the floor framing to support the additional load. During this site visit Mr. Cochran found that the second floor HVAC was being suspended from the third floor joists and the third floor HVAC unit was directly supported by the third floor joists.

Based upon my structural analysis of the third floor joists only and the HVAC unit cut sheets provided by you, the existing and installed floor framing is structurally acceptable to resist the additional loading of the second and third floor HVAC units.

Please call should you have any questions regarding this letter.

Sincerely,



Christopher M. Brown, E.I.
Structural Designer



Submittal

Trane
A Division of American Standard Inc.

Prepared For:
All Bidders

Date: February 09, 2007

Customer P.O. Number:
Customer Project Number:

Sold To:

Job Number:
Job Name:
HVAC Services - Rob - 39 Middle Street

Trane is pleased to provide the enclosed submittal for your review and approval.

Product Summary

Qty	Product
2	Split System Air Conditioning Units (Small)

The attached information describes the equipment we propose to furnish for this project, and is submitted for your approval.

Dan Broderick
Trane
30 Thomas Drive
Westbrook, ME 04092-3824
Phone: (207) 828-1777
Fax: (207) 828-1511

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Tag Data - Split System Air Conditioning Units (Small) (Qty: 2)

Item	Tag(s)	Qty	Description	Model Number
A1	No Tag	2	3 Ton Unitary Split Systems	2TTB3036-TUX1B080942----2TXC-B

Product Data - Split System Air Conditioning Units (Small)

Item: A1 Qty: 2

Split System Cooling Outdoor Unit
3 Ton Nominal Cooling Capacity
200 - 230 Volt 1 Phase 60 Hertz
Furnace unit
80,000 Heating input BTUH
115 Volt/1 phase/60 hertz
3.5 Ton Airflow Cooling Capacity
Cased upflow/dnflow/horiz left
17.5"/16.3" cabinet
42,000 Nominal cooling capacity
Standard
TXV-Non bleed
Heat pump
Convertible-upflow/dnflw,left airflow
Propane conversion kit (Fld)

Mechanical Specifications - Split System Air Conditioning Units (Small)**Item: A1 Qty: 2****General - Split System Cooling**

This unit is fully charged from the factory for matched indoor section and up to 15 feet [4.57m] of piping. Unit is designed to operate at outdoor ambient temperatures as high as 115 deg F [46.1 C]. Cooling capacities 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.

Split System Cooling Unit Casing

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

Split System Cooling Compressor

The Climatuff compressor features internal over temperature and pressure protector, total dipped hermetic motor, and thermostatically controlled sump heater. Other features include: roto-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.

Split System Cooling Condenser Coil

The Spine Fin coil is continuously wrapped, corrosion resistant, all aluminum with minimum brazed joints. The coil is 3/8" [8mm] 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 1year warranty.

Split system cooling refrigerant controls

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure protection is inherent to the compressor. Another standard feature is the factory installed liquid line drier.

LP Conversion Kit

This field installed kit will allow the use of liquified petroleum gas for heating.

Unit Dimensions - Split System Air Conditioning Units (Small)

Item: A1 Qty: 2

COOLING ELECTRICAL / GENERAL DATA

Unit Capacity - Tons	3	[10.59 kW]
Unit Voltage Operating Range	180	— 264
Unit Primary Voltage	200	
Unit Secondary Voltage	230	
Unit Hertz	60	
Unit Phase	1	
Min. Brch. Cir. Ampacity (1)	18	
Br. Cir. - Max. Amps	30	
Protection Rating - Minimum Amps	30	
COMPRESSOR		
		Circuit #1
Number	1	
Phase	1	
Compressor Rated Load Amps	13.5	
Locked Rotor Amps	73.0	
OUTDOOR FAN		
Number	1	
Diameter	23	
Horsepower	0.16	[0.124 kW]
Motor speed (RPM)	825	
Phase	1	
Outdoor Motor Full Load Amps	1.4	
REFRIGERANT		
Type		R-22
Charge (oz.) (2)		104

NOTES:

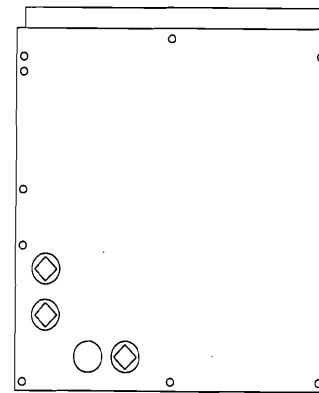
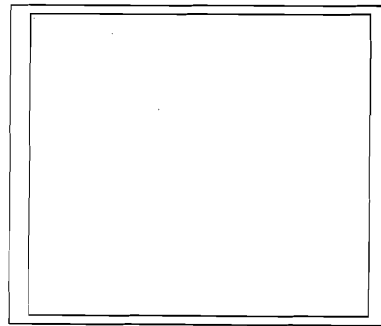
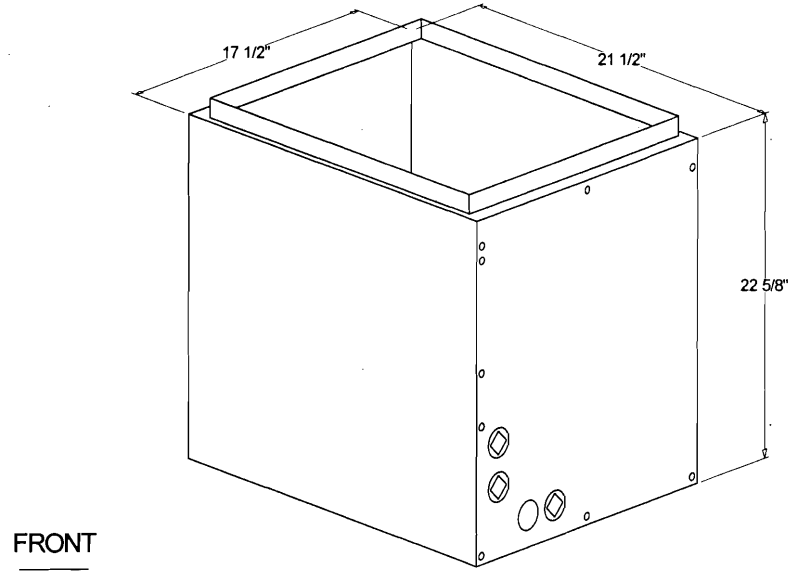
1. Calculated in accordance with National Electric Code. Suitable for use with HACR circuit breakers or fuses.
2. Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

Unit Dimensions - Split System Air Conditioning Units (Small)

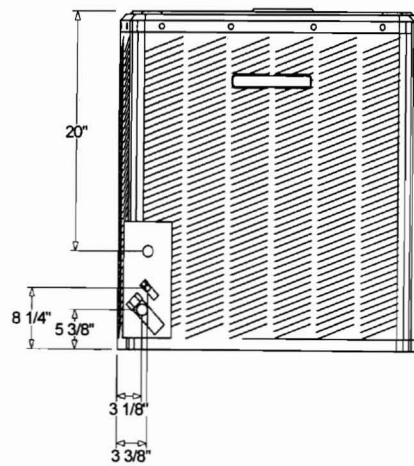
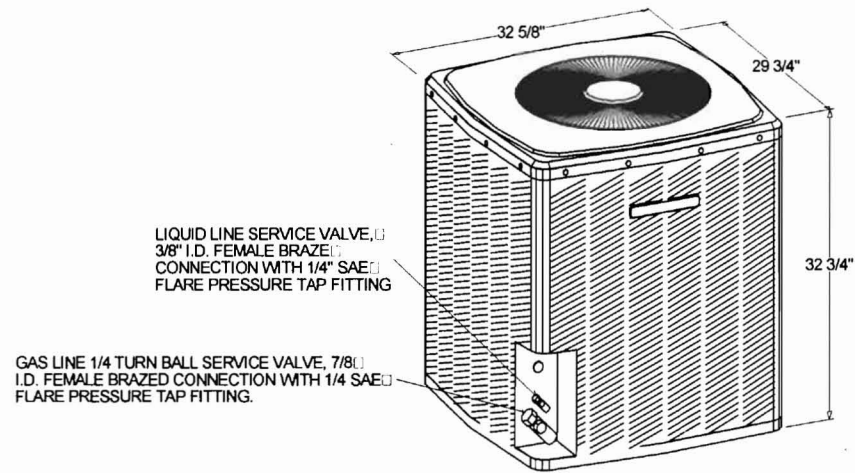
Item: A1 Qty: 2

CASED COIL

lb
62



Unit Dimensions - Split System Air Conditioning Units (Small)
Item: A1 Qty: 2



Unit Dimensions - Split System Air Conditioning Units (Small)**Item: A1 Qty: 2**

FURNACE ELECTRICAL / GENERAL DATA

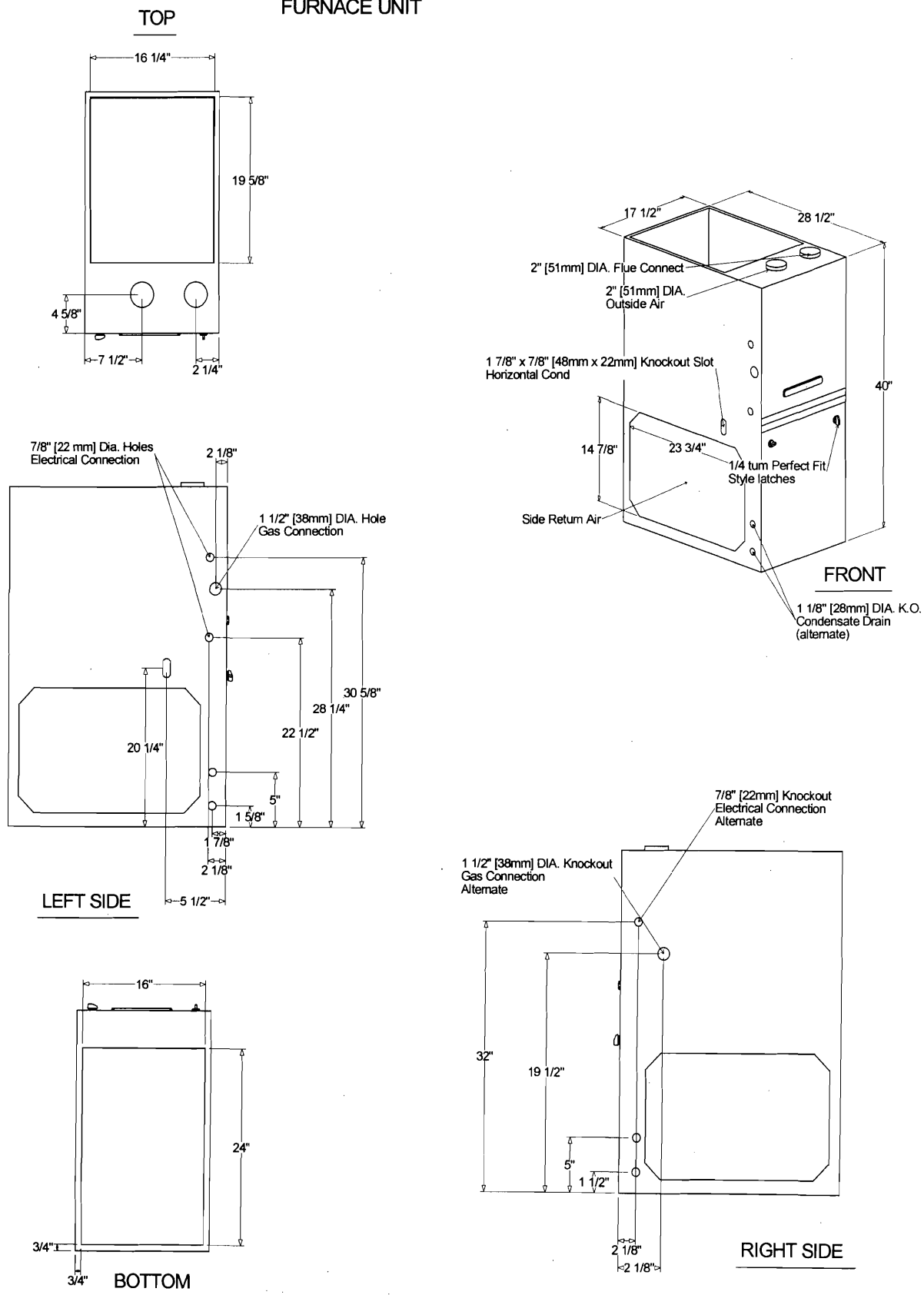
COMBUSTION FAN -Type Drive - No. Speeds Motor HP - RPM Volts/Phase/Hertz Full Load Amps	Centrifugal Direct - 1 1/24 — 3200 115/1/60 1.35
BLOWER DRIVE Diameter - Width (In.) No. Used Speeds (No.) Motor HP R.P.M. Volts/Phase/Hertz	Direct 10 x 8 1 4 1/2 1100 115/1/60
FILTER - Furnished Type Recommended Filter (Number-Size-Thickness)	NO HIGH VELOCITY 1 - 17 x 25
ORIFICES - Main Natural Gas Quantity - Drill Size L.P. Gas Quantity - Drill Size	4 — 45 4 —
GAS VALVE	Redundant - Single Stage
BURNERS - Type Burner Quantity	Multiport Inshot 4
POWER CONNECTION - Volts/Phase/Hertz Ampacity Max. Overcurrent Protection	10.0

NOTES:

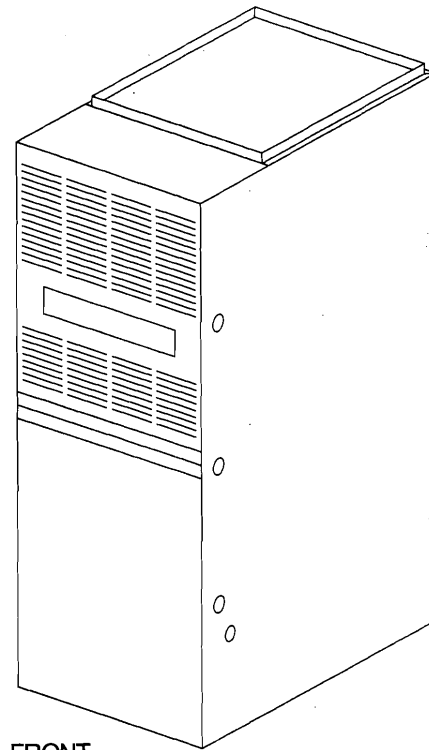
Unit Dimensions - Split System Air Conditioning Units (Small)

Item: A1 Qty: 2

FURNACE UNIT



Weight, Clearance & Rigging Diagram - Split System Air Conditioning Units (Small)
Item: A1 Qty: 2



FRONT

HORIZONTAL (FLUE
DISCHARGE ON THE LEFT)

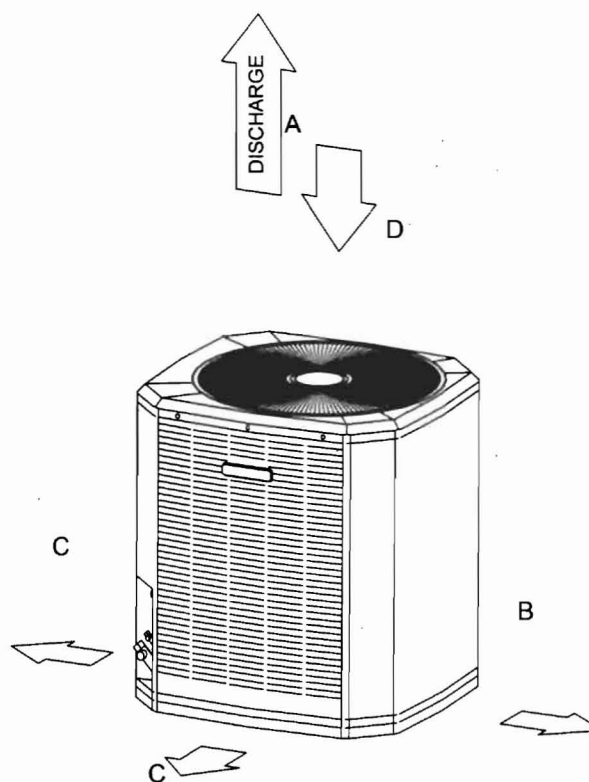
MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS	ALCOVE SIDES	CLOSET SIDES
LEFT SIDE 0"	0"	1"
RIGHT SIDE 0"	0"	1"
BACK 0"	0"	3"
FRONT 6"	18"	3"
TOP 1"	1"	2"
FLUE 0"	0"	0"

FURNACE ONLY	lb
SHIPPING WEIGHT	158
NET WEIGHT	148

Weight, Clearance & Rigging Diagram - Split System Air Conditioning Units (Small)

Item: A1 Qty: 2

OUTDOOR UNIT ONLY	lb
SHIPPING WEIGHT	220
NET WEIGHT	193

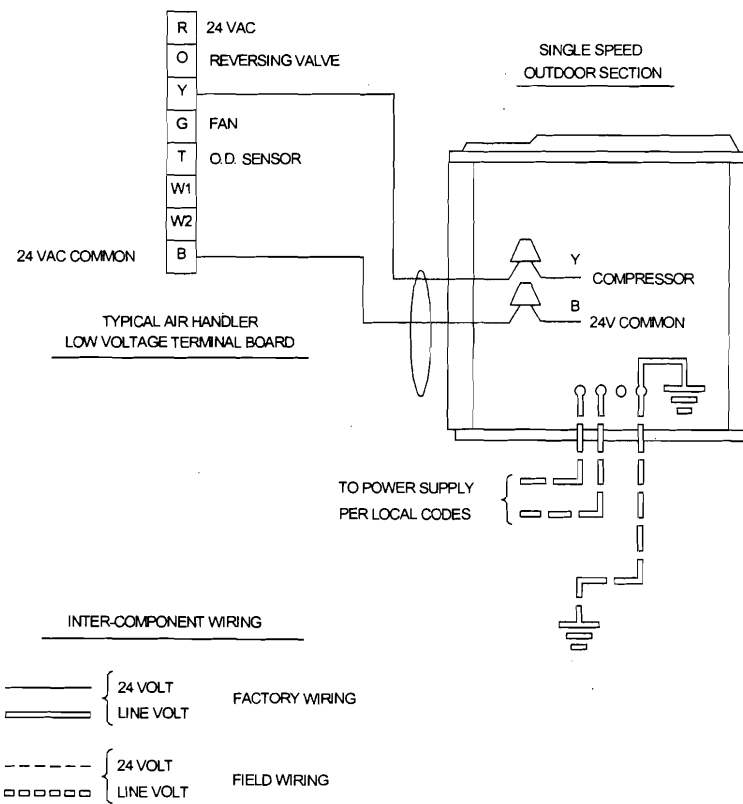


NOTES:

- A. TOP DISCHARGE SHOULD BE UNRESTRICTED FOR AT LEAST FIVE (5) FEET [1.5m] ABOVE UNIT
- B. PLACE UNIT 12" [305mm] FROM WALL
- C. PLACE SHRUBBERY AT LEAST 12" [305mm] FROM UNIT ON TWO SIDES, OTHER SIDES UNRESTRICTED
- D. PLACE UNIT SO ROOF RUN-OFF DOES NOT FALL DIRECTLY ON UNIT

CLEARANCES

Field Wiring - Split System Air Conditioning Units (Small)
 Item: A1 Qty: 2



NOTES:

1. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES
2. LOW VOLTAGE WIRING TO BE 18 A.W.G. MINIMUM CONDUCTOR
3. USE COPPER CONDUCTORS ONLY
4. IF ODT IS NOT USED, THEN CONNECT APPROPRIATE JUMPER FROM W1 TO W2 ON LVTB

Field Installed Options - Part/Order Number Summary

This is a report to help you locate field installed options that arrive at the jobsite. This report provides part or order numbers for each field installed option, and references it to a specific product tag. It is NOT intended as a bill of material for the job.

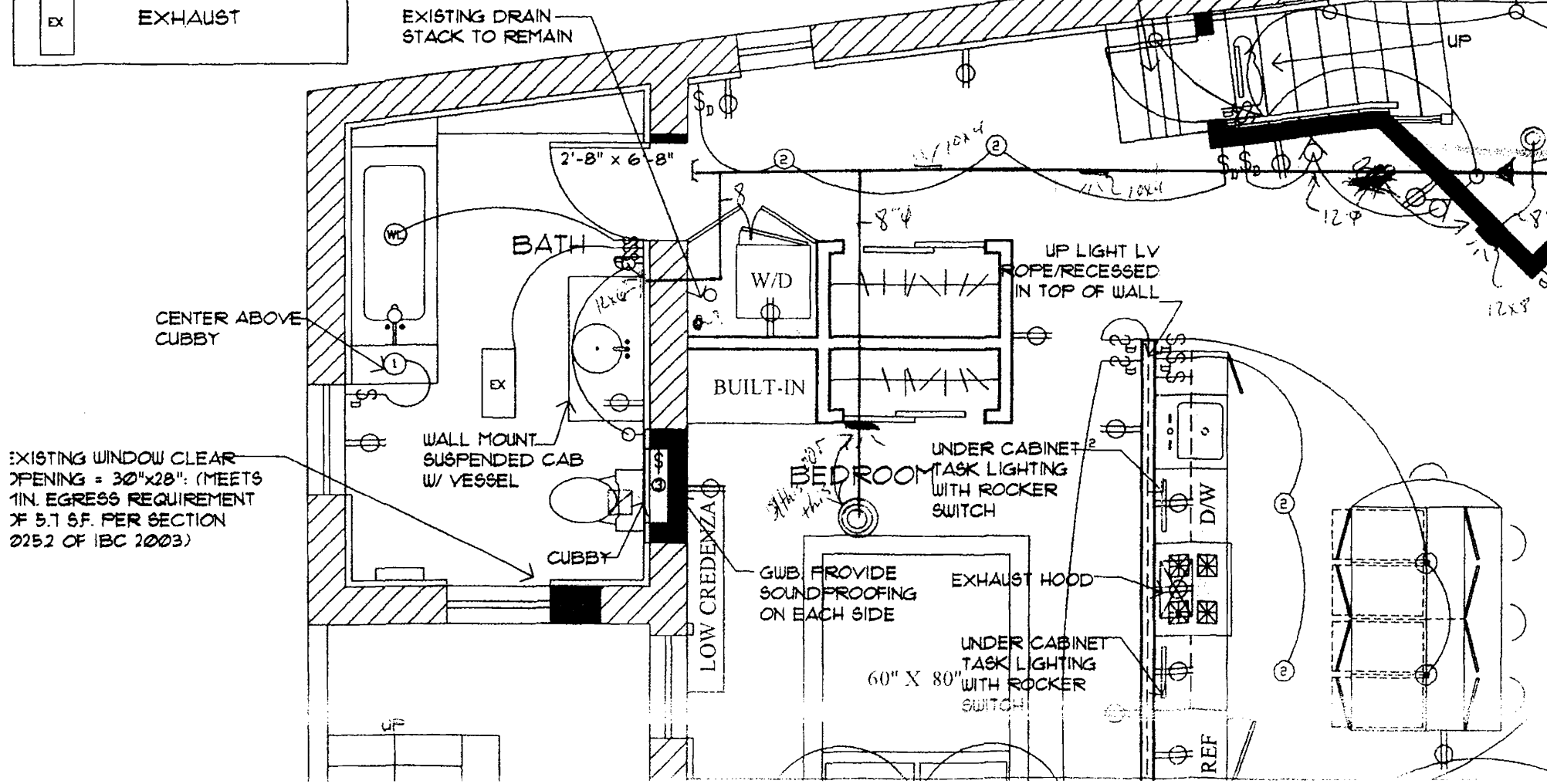
Product Family - Split System Air Conditioning Units (Small)

Item	Tag(s)	Qty	Description	Model Number
A1	No Tag	2	3 Ton Unitary Split Systems	2TTB3036-TUX1B080942----2TXC-B

Field Installed Option Description	Part/Ordering Number
Propane conversion kit	BAYLPKT210B

SYMBOL	DESCRIPTION
①	RECESSED LIGHT
②	RECESSED LIGHT
⊙	ACCENT PUCK LIGHT
⊙	PENDANT LIGHT
○	SCONCE
—	TASK LIGHTING
⊕	DUPLEX RECEPTACLE
⊕	DIMMING SWITCH
⊕	SINGLE SWITCH
△	CABLE RECEPTACLE
△	TELEPHONE RECEPTACLE
△	TELEPHONE/CABLE RECEPTACLE
○	WALL WASHER
⊕	WET LOCATION
EX	EXHAUST

1 HR FIRE RATING • UNDERSIDE OF STAIRS MEET REQUIREMENTS OF DETAIL OR (2) LAYERS TYPE 'X' G.W.B. W/ ONE LAYER 3/4" PLYWOOD • STAIR TREADS & RISERS



SYMBOL	DESCRIPTION
①	RECESSED LIGHT
②	RECESSED LIGHT
⊙	WALL MOUNT PUCK
○	PENDANT LIGHT
○	SCONCE
—	TASK LIGHTING
⊕	DUPLEX RECEPTACLE
⌘	DIMMING SWITCH
⌘	SINGLE SWITCH
△	CABLE RECEPTACLE
△	TELEPHONE RECEPTACLE
△	TELEPHONE/CABLE RECEPTACLE
○	WALL WASHER
⊙	WET LOCATION
EX	EXHAUST

STAIR AS SHOWN IS EXISTING AND TO REMAIN. TO MAINTAIN MAX. CLEARANCE, ONE HANDRAIL HAS BEEN PROVIDED.

NOTE:
UNDERSIDE OF STAIR TO MEET A ONE HOUR FIRE RATING SIM. TO WALL TYPE [2]

