

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 07-0202	Issue Date: PERMIT ISSUED MAR 14 2007	CEB: 020 E023001
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Location of Construction: 25 MIDDLE ST	Owner Name: ANDREW HILARY E J & STEPH	Owner Address: 25 MIDDLE ST	Phone: 207 854 4822
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: Commercial Connected w/ permit #051510	Proposed Use: Commercial Connected w/ permit #051510 Install new TRANE HVAC Natural gas boiler	Permit Fee: \$150.00	Cost of Work: \$13,000.00	CEO District: 1
Proposed Project Description: Install new TRANE HVAC Natural gas boiler		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied TO NHPA 54	INSPECTION: Use Group: R3 Type SB IBC 2003	
		Signature: <i>Greg Cross</i>	Signature: <i>Jim 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: ldobson	Date Applied For: 02/26/2007	Zoning Approval		
<ol style="list-style-type: none"> 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 <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 <input checked="" type="checkbox"/> Date: <i>ok 2/27/07</i>	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

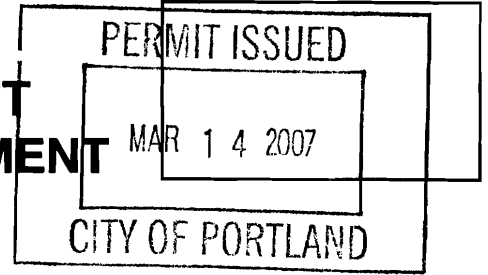
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition,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



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



20 E 23

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 25 Middle St PORTLAND Use of Building Office Date _____
 Name and address of owner of appliance ANDREW Hillery EJ & Stephen Andrew JTS
25 Middle St Portland
 Installer's name and address HVAC SERVICES INC
73 Bradley Dr. 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 # PNT 1058
- 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: \$ 13,000

Permit Fee: \$ 150

Approved

Fire: _____
 Ele.: _____
 Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Signature of Installer [Signature]

Inspector's Signature _____

Date Approved _____

City of Portland, Maine - Building or Use Permit

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Permit No: 07-0202	Date Applied For: 02/26/2007	CBL: 020 E023001
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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 Connected w/ permit #051510 Install new TRANE HVAC Natural gas boiler	Proposed Project Description: Install new TRANE HVAC Natural gas boiler
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 02/27/2007
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
Dept: Building	Status: Approved with Conditions	Reviewer: Tom Markley	Approval Date: 03/14/2007
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.			
2) The installation must comply with the State of Maine Gas Regulations.			
Dept: Fire	Status: Pending	Reviewer: Cptn Greg Cass	Approval Date: 03/01/2007
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
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 14, 2006
Summary: INSTALLATION
Reference #: 1760-673
Tech: BRENT
Due Date: 1/13/2007
P.O.#: 450712A

MONAGHAN WOODWORKS INC.
MICHAEL MONAGHAN
100 COMMERCIAL STREET STE 105
PORTLAND, ME 04101

Job Name:
NEW 5 ZONE HVAC SYSTEM
INNEREDGE COUNSELING
25 MIDDLE
PORTLAND

207-775-2683

207-772-6726

We Hereby Submit Specifications And Estimates For:

THE INSTALLATION OF ONE CENTRAL GAS HEATING W/DX COOLING SYSTEM TO SERVE THE NEW (3) LEVEL OFFICE SPACE LAYOUT.

THIS SYSTEM TO INCLUDE: (1) CONDENSING ULTRA EFFICIENT GAS FIRED FURNACE, QUIET DIRECT DRIVE AIR HANDLER, MODULAR DX COOLING COIL, TRANE HIGH EFFICIENCY AC CONDENSING UNIT W/ 5 YEAR COMPRESSOR WARRANTY, TEMPERATURE CONTROLS TO BREAK THE SPACE INTO 5 THERMOSTATIC ZONES, SCHEDULE 40 BLACK IRON GAS PIPING FROM METER LOCATION, NEW BRAZED TYPE ACR REFRIGERANT LINES, ALL NEW FOIL INSULATED METAL DUCT SYSTEM, COMMERCIAL GRADE LAYIN DIFFUSION, AND PVC CONDENSATE DRAIN SYSTEM.

OUR WORK TO INCLUDE: EQUIPMENT HANGING AND SETTING, GAS AND REFRIGERANT 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.

BASE CONTRACT ACCEPTED: \$13,450.00

We propose hereby to furnish material and labor - complete in accordance with the above specifications, for the sum of: \$0.00

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 _____



Submittal

Trane
A Division of American Standard Inc.

Prepared For:
All Bidders

Date: February 15, 2007

Customer P.O. Number:
Customer Project Number:

Sold To:

Job Number:
Job Name:
HVAC Services - Rob - 25 Middle

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

Product Summary

Qty	Product
1	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

Table Of Contents

Product Summary 1

Split System Air Conditioning Units (Small) (Item A1)

- Tag Data 4
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Tag Data - Split System Air Conditioning Units (Small) (Qty: 1)

Item	Tag(s)	Qty	Description	Model Number
A1	No Tag	1	3 Ton Unitary Split Systems	2TTB3036A1000-TUX0B080A9000-2TXCB042AC3HC

Product Data - Split System Air Conditioning Units (Small)**Item: A1 Qty: 1**

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

Mechanical Specifications - Split System Air Conditioning Units (Small)**Item: A1 Qty: 1****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 1 year 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.

Unit Dimensions - Split System Air Conditioning Units (Small)

Item: A1 Qty: 1

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:

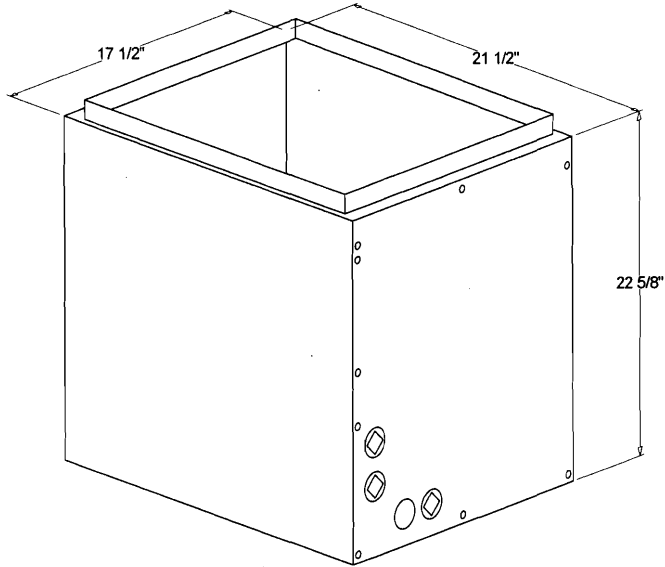
1. Calculated in accordance with National Electric Code. Suitable for use with HACR circuit breakers or fuses.
2. Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

Unit Dimensions - Split System Air Conditioning Units (Small)

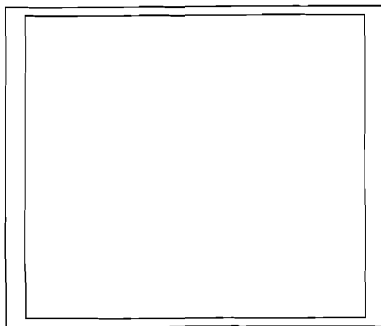
Item: A1 Qty: 1

CASED COIL

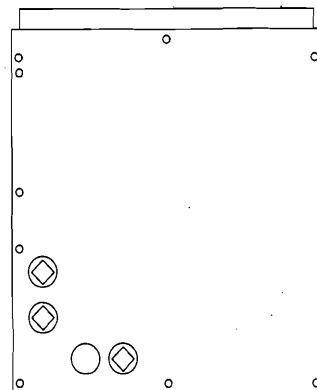
lb
62



FRONT



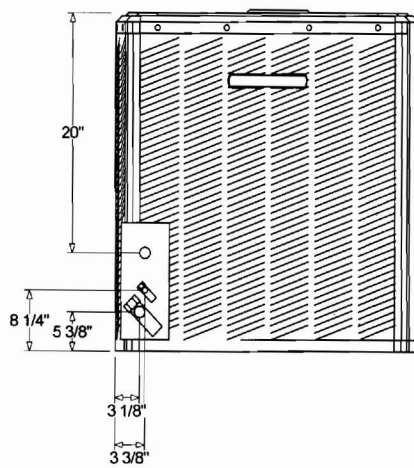
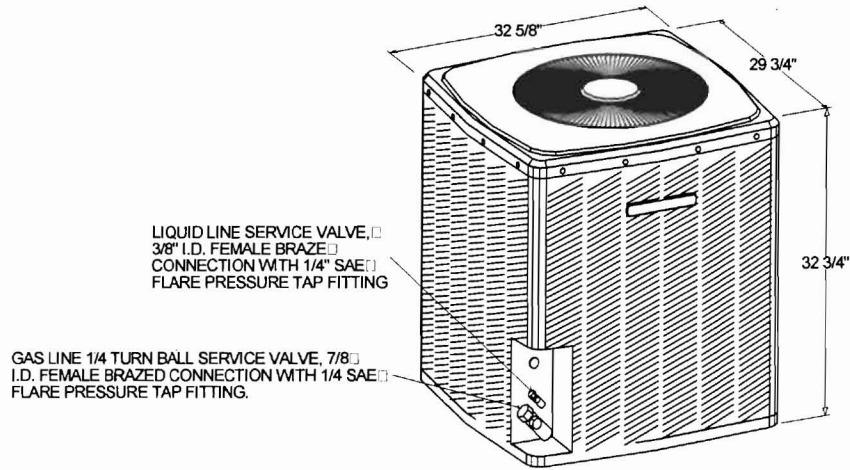
BOTTOM



RIGHT SIDE

Unit Dimensions - Split System Air Conditioning Units (Small)

Item: A1 Qty: 1



Unit Dimensions - Split System Air Conditioning Units (Small)

Item: A1 Qty: 1

FURNACE ELECTRICAL / GENERAL DATA

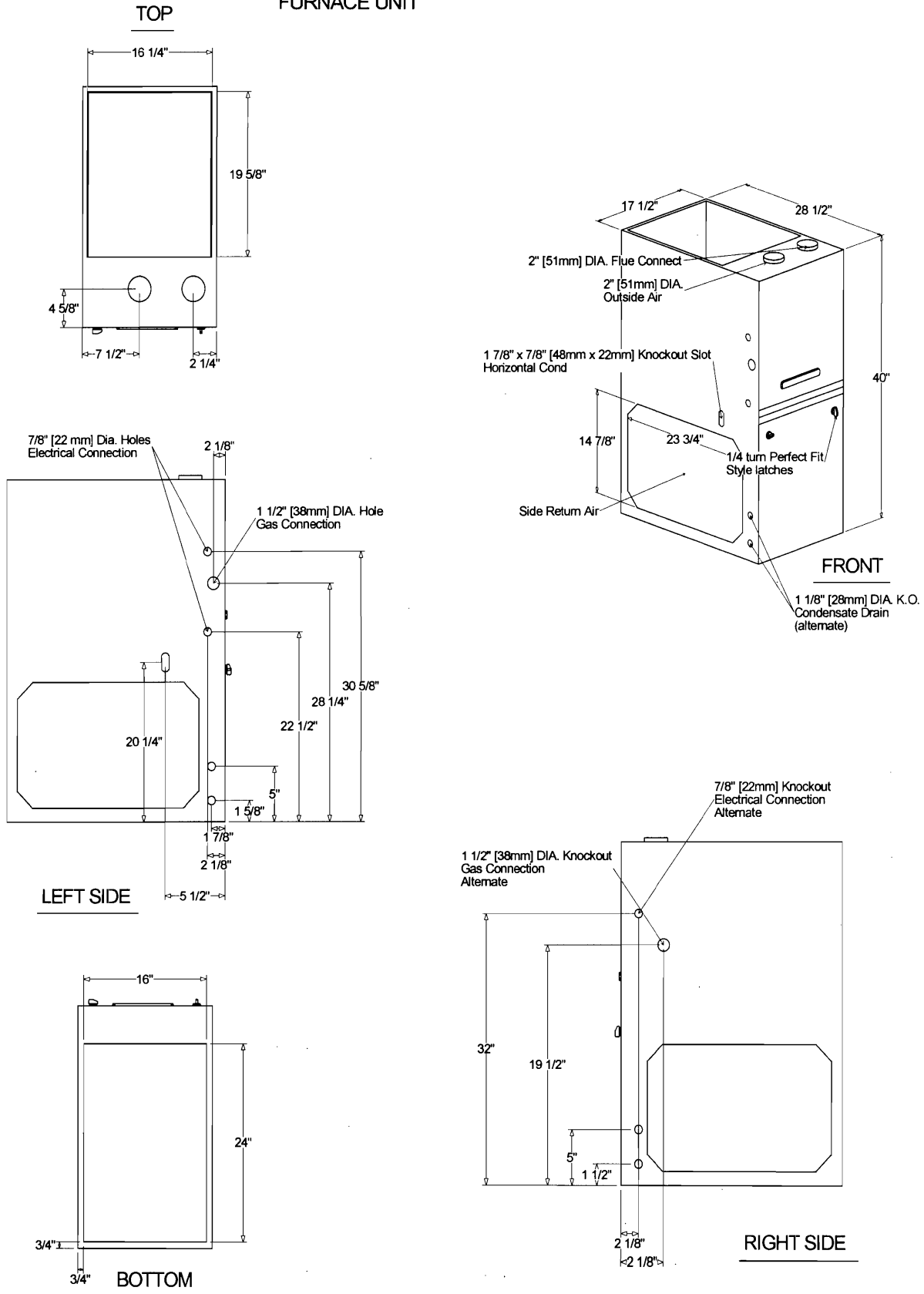
COMBUSTION FAN -Type	Centrifugal
Drive - No. Speeds	Direct - 1
Motor HP - RPM	1/24 — 3200
Volts/Phase/Hertz	115/1/60
Full Load Amps	1.35
BLOWER DRIVE	Direct
Diameter - Width (In.)	10 x 8
No. Used	1
Speeds (No.)	4
Motor HP	1/2
R.P.M.	1100
Volts/Phase/Hertz	115/1/60
FILTER - Furnished	NO
Type Recommended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

NOTES:

Unit Dimensions - Split System Air Conditioning Units (Small)

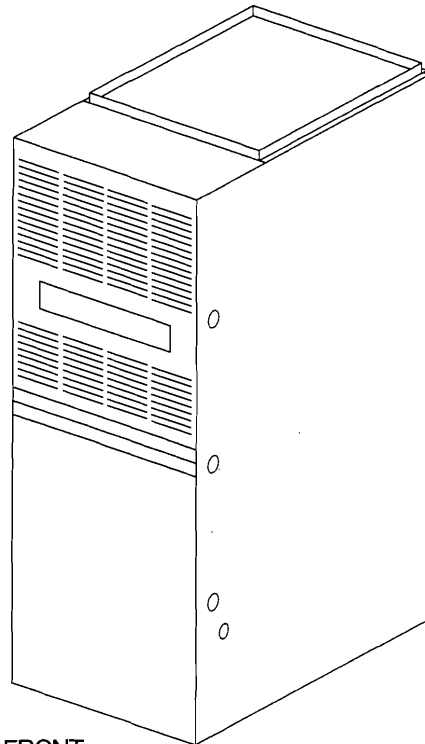
Item: A1 Qty: 1

FURNACE UNIT



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

Item: A1 Qty: 1



FRONT

HORIZONTAL (FLUE DISCHARGE ON THE LEFT)

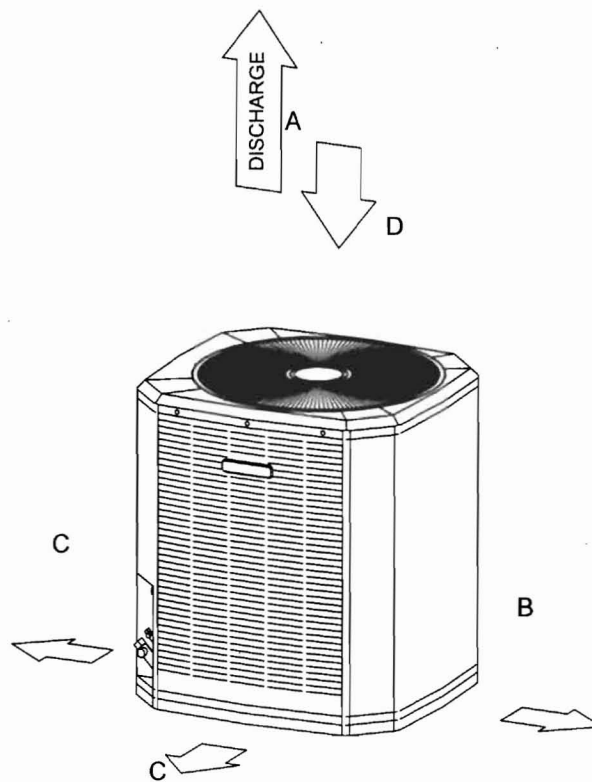
MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS	ALCOVE SIDES	CLOSET SIDES
LEFT SIDE	0"	1"
RIGHT SIDE	0"	1"
BACK	0"	3"
FRONT	6"	3"
TOP	1"	2"
FLUE	0"	0"

FURNACE ONLY	lb
SHIPPING WEIGHT	158
NET WEIGHT	148

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

Item: A1 Qty: 1

OUTDOOR UNIT ONLY	lb
SHIPPING WEIGHT	220
NET WEIGHT	193



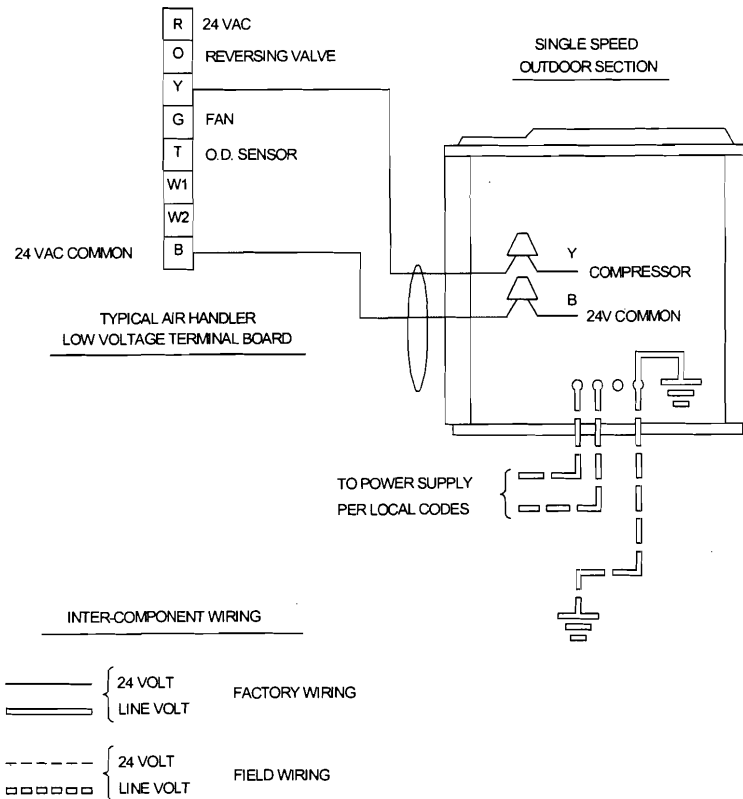
NOTES:

- 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: 1



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