

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 07-0546	Issue Date:	CBL: 032 G001001
-----------------------	-------------	---------------------

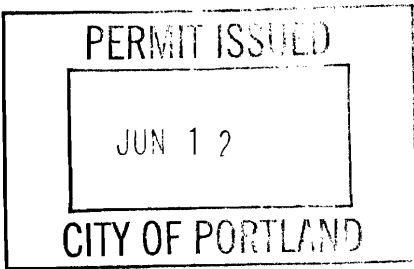
Location of Construction: 396 CONGRESS ST	Owner Name: A & M PARTNERS INC	Owner Address: 120 EXCHANGE ST	Phone:
Business Name:	Contractor Name: Henkel Design and Fabrication	Contractor Address: 134 Hartley Street Portland	Phone 2073182623
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: B-3

Past Use: Commercial	Proposed Use: Commercial - install a Trane package rooftop unit	Permit Fee: \$130.00	Cost of Work: \$10,700.00	CEO District: 1
		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>B</i> Type: <i>HVAC</i>	

Proposed Project Description: install a Trane package rooftop unit	Signature:	Signature: <i>JMB 6/12/07</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: 05/14/2007	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 checked="" type="checkbox"/> MM Date: <i>5/22/07</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 <i>To D.A. 5/22/07</i> <input type="checkbox"/> Not in District or Landmark <input checked="" 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>5/22/07 ST#</i>
---	--	---	---



CERTIFICATION

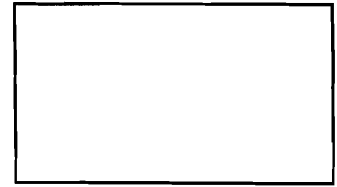
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition,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



AKA 396 Congress

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 120 Exchange St. Portland Use of Building Comm/office Date 3-2-01
 Name and address of owner of appliance AEM PARTNERS
120 Exchange St. Portland
 Installer's name and address HVAC SERVICES
73 BRADLEY DRIVE WESTBROOK, ME Telephone 207-854-4822

Location of appliance:

- Basement Floor
 Attic Roof

Type of Fuel:

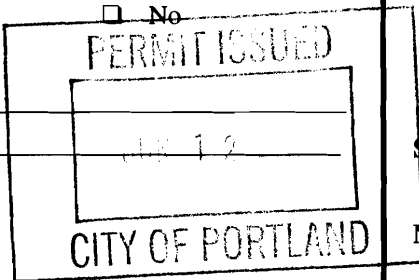
- Gas Oil Solid

Appliance Name: TRANE Package Rooftop Unit

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 1726
 Other Dec MS60004018

Type of Chimney:

- Masonry Lined
 Factory built _____

- Metal
 Factory Built U.L. Listing # _____

- Direct Vent
 Type _____ UL# _____

Type of Fuel Tank

- Oil
 Gas

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 10,700⁰⁰

Permit Fee: \$ 130⁰⁰

Approved

Fire: _____
 Ele.: _____
 Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Signature of Installer

Dustin Dejeu

Inspector's Signature

Date Approved

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

City of Portland, Maine - Building or Use Permit

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

Permit No: 07-0546	Date Applied For: 05/14/2007	CBL: 032 G001001
------------------------------	--	----------------------------

Location of Construction: 396 CONGRESS ST	Owner Name: A & M PARTNERS INC	Owner Address: 120 EXCHANGE ST	Phone:
Business Name:	Contractor Name: Henckel Design and Fabrication	Contractor Address: 134 Hartley Street Portland	Phone: (207) 318-2623
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

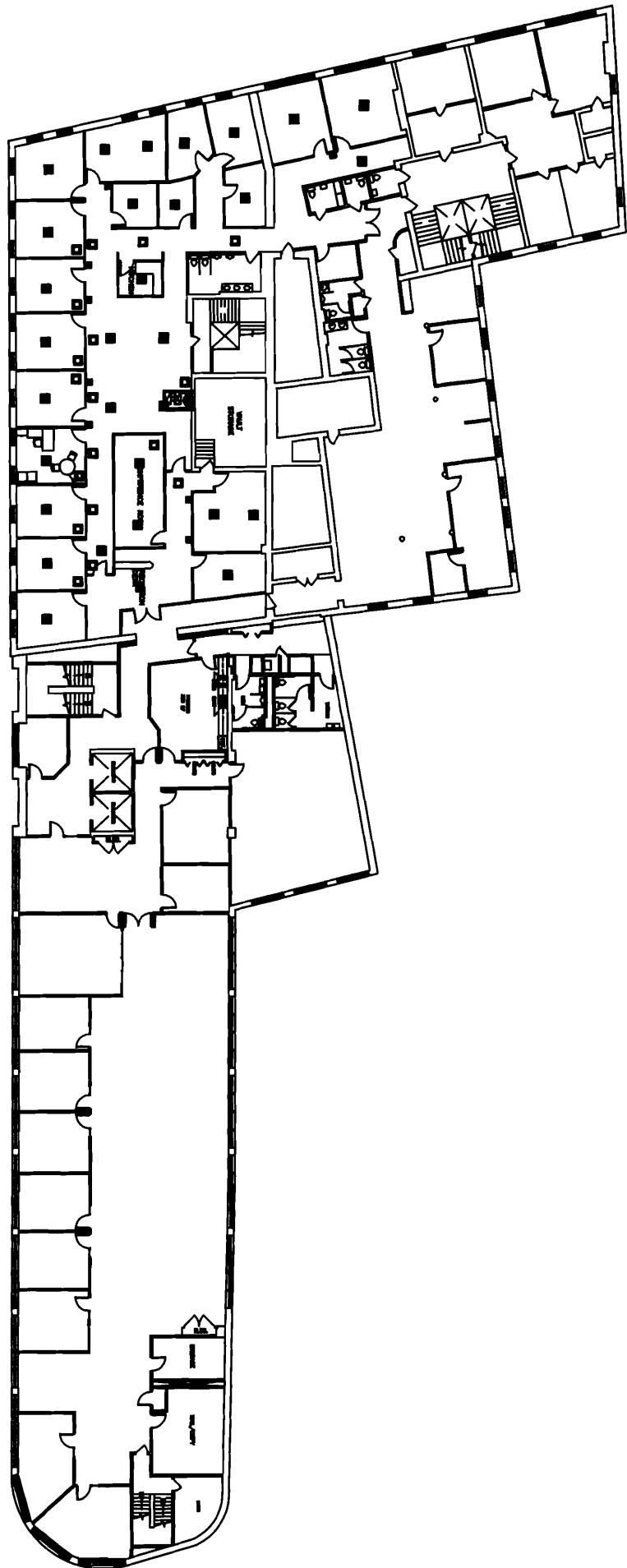
Proposed Use: Commercial - install a Trane package rooftop unit	Proposed Project Description: install a Trane package rooftop unit
---	--

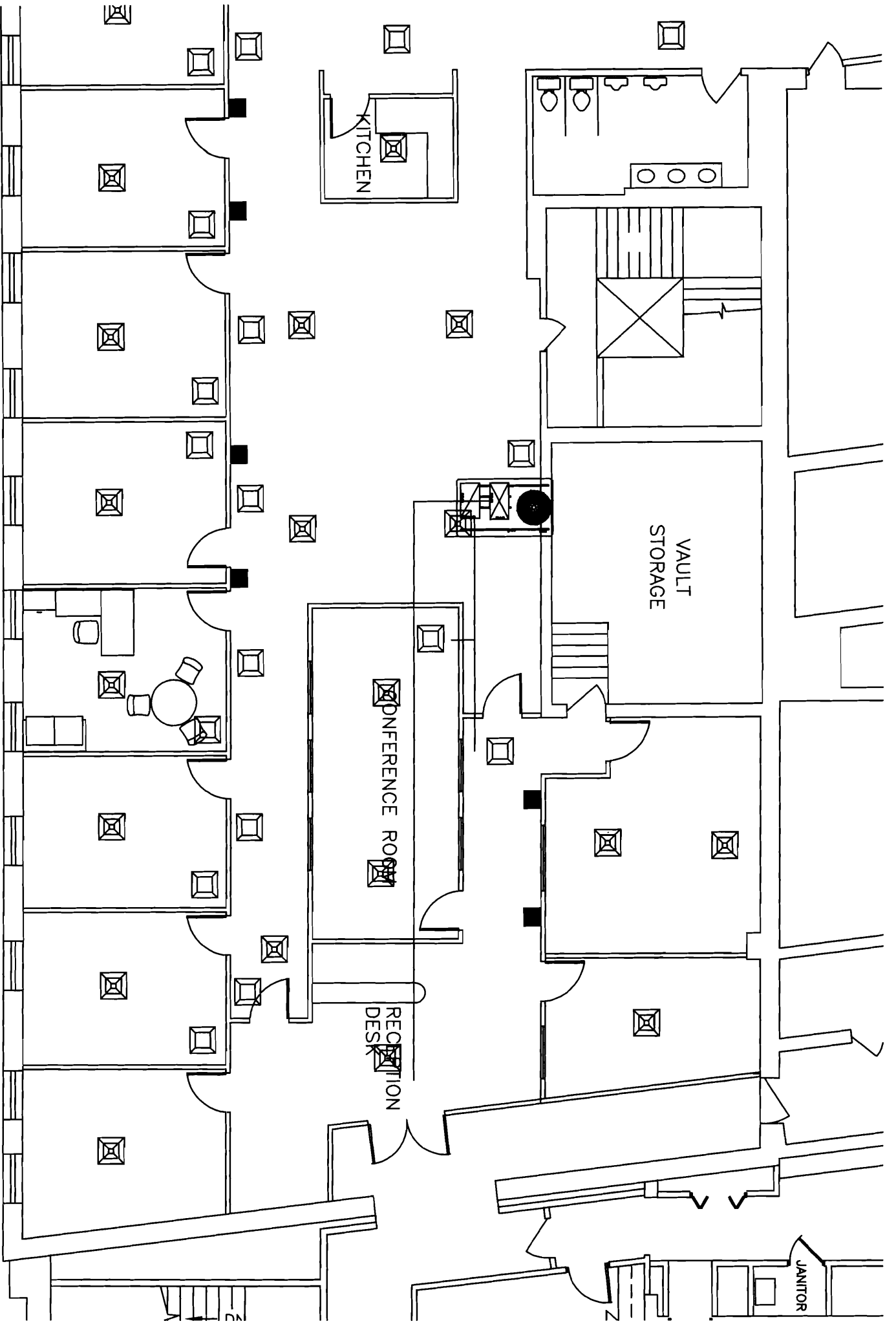
Dept: Historic **Status:** Not Applicable **Reviewer:** Scott Hanson **Approval Date:**
Note: Building is not in an historic district and is not an individually designated landmark. Application does not require HP approval. **Ok to Issue:**

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 05/22/2007
Note: **Ok to Issue:**
1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2) ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 06/12/2007
Note: **Ok to Issue:**
1) New framing specs needs to be inspected

DATE	BY	REVISION







General Data

(5 - 6 Tons) Standard Efficiency



Table GD-2 – General Data – 5-6 Tons

	5Ton Convertible		6Ton Convertible
	T/YSC060A1	T/YSC060A3, A4, AW, AK	T/YSC072A3, A4, AW, AK
Cooling Performance¹			
Gross Cooling Capacity	63,100	63,100	72,000
SEER/VEER ²	9.90/—	10.20/—	—/10.2 ¹²
Nominal CFM / ARI Rated CFM	2,000/2,000	2,000/2,000	2,400/2,100
ARI Net Cooling Capacity	60,000	60,000	69,000
Integrated Part Load Value ³	—	—	—
System Power (KW)	6.86	6.78	6.77
Compressor			
No./Type	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)⁶			
	84	84	88
Outdoor Coil - Type			
Tube Size (in.) OD	Lanced	Lanced	Lanced
Face Area (sq ft)	0.3125	0.3125	0.3125
Rows/FPI	8.81	8.81	13.88
	2/17	2/17	2/17
Indoor Coil - Type			
Tube Size (in.)	Lanced	Lanced	Lanced
Face Area (sq ft)	0.3125	0.3125	0.3125
Rows/FPI	5.00	5.00	9.89
Refrigerant Control	3/16	3/16	2/16
Drain Connection No./Size (in.)	Short Orifice	Short Orifice	Short Orifice
	1/3/4 NPT	1/3/4 NPT	1/3/4 NPT
Outdoor Fan - Type			
No. Used/Diameter (in.)	Propeller	Propeller	Propeller
Drive Type/No. Speeds	1/22	1/22	1/26
CFM	Direct/1	Direct/1	Direct/1
No. Motors/HP	3,470	3,470	6,100
Motor RPM	1/0.33	1/0.33 ¹⁵	1/0.70 ¹⁴
	1075	1,075	1,075
Direct Drive Indoor Fan - Type			
No. Used/Diameter (in.)	FC Centrifugal	FC Centrifugal	—
Drive Type/No. Speeds	1/11 x 11 ⁸	1/11 x 11 ⁸	—
No. Motors	Direct/2	Direct/2	—
Motor HP (Standard/Oversized)	1	1	—
Motor RPM (Standard/Oversized)	0.90/1.00	0.90/1.00 ¹⁸	—
Motor Frame Size (Standard/Oversized)	985/1,080 ⁹	985/1,080 ⁹	—
	48/48	48/48	—
Belt Drive Indoor Fan - Type			
No. Used/Diameter (in.)	—	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	—	1/11 x 11	1/12 x 12
No. Motors	—	Belt/Variable Sheave	Belt/Variable Sheave
Motor HP (Standard/Oversized)	—	1	1
Motor RPM (Standard/Oversized)	—	1.00/—	1.00/2.00 ¹⁷
Motor Frame Size (Standard/Oversized)	—	1,750/—	1,750/1,750
	—	48/—	56/56
Filters - Type Furnished ¹¹			
(No.) Size Recommended	Throwaway	Throwaway	Throwaway
	(2) 20 x 25 x 1 ¹⁰	(2) 20 x 25 x 1 ¹⁰	(4) 16 x 25 x 2

Notes:

- Cooling Performance is rated at 95 F ambient, 80 F entering dry bulb, 67 F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240 except AK (380V/60 Hz) units.
- EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.
- Integrated Part Load Value is rated in accordance with ARI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at ARI rated cfm.
- Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.
- AFUE is rated in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to Table PD-128.
- Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
- YSC060A1, 3,4,W Oversized Motor and YSC060AK Standard Motor Fan Diameter is 12 x 11.
- Motor RPM shown is low speed. High speed RPM is 1100/1135. 10. Filter size shown is for low and medium heat models. High heat model filter size recommended is 20 x 30 x 1.
- Optional 2" pleated filters also available.
- YSC072A when used in a horizontal application has an EER of 10.1 and System Power (kW) of 6.83.
- Medium heat is not available for AK (380V/ 60 Hz) units.
- Outdoor motor is 0.75 hp for AK (380V/ 60 Hz) units.
- Outdoor motor is 0.40 hp for AK (380V/ 60 Hz) units.
- Standard Motor is 1.00 hp for YSC060AK (380V/ 60 Hz) units.
- Standard Motor is 2.00 hp for the YSC072AK (380V/ 60 Hz) units.
- Second stage/first stage if applicable.

GD-2 continued on next page



General Data

(5 - 6 Tons) Standard Efficiency

Table GD-2 – Continued



	5 Ton Convertible						6Ton Convertible		
	T/YSC060A1			T/YSC060A3, A4, AW, AK			T/YSC072A3, A4, AW, AK		
Refrigerant Charge (Lbs of R-22) ⁷	4.7			4.9			7.1		
Gas/Electric Only									
Heating Performance⁴									
Heating Models	Low	Medium	High	Low	Medium ¹³	High	Low	Medium ¹³	High
Heating Input (Btu) ¹⁸	60,000	80,000	130,000	60,000	80,000	130,000	80,000	120,000/84,000	150,000/105,000
Heating Output (Btu) ¹⁸	47,000	63,000	103,000	48,000	64,000	104,000	64,800	97,200/68,000	121,500
AFUE ⁵	81	81	80	81	81	80	81	81	81
Steady State Efficiency (%)	81	81	80	81	81	80	81	81	81
No. Burners	2	2	3	2	2	3	2	3	3
No. Stages	1	1	1	1	1	1	1	1	2
Gas Supply Line Pressure									
Natural (minimum/maximum)	4.5/14.0			4.5/14.0			4.5/14.0		
LP (minimum/maximum)	10.0/14.0			10.0/14.0			10.0/14.0		
Gas Connection Pipe Size (in.)	1/2		1/2	1/2	1/2	1/2	1/2	1/2	3/4

Notes:

- Cooling Performance is rated at 95 F ambient, 80 F entering dry bulb, 67 F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240 except AK (380V/60 Hz) units.
- EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.
- Integrated Part Load Value is rated in accordance with ARI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at ARI rated cfm.
- Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.
- AFUE is rated in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to Table PD-128.
- Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
- YSC060A1, 3,4,W Oversized Motor and YSC060AK Standard Motor Fan Diameter is 12 x 11.
- Motor RPM shown is low speed. High speed RPM is 1100/1135. 10. Filter size shown is for low and medium heat models. High heat model filter size recommended is 20 x 30 x 1.
- Optional 2" pleated filters also available.
- YSC072A when used in a horizontal application has an EER of 10.1 and System Power (kW) of 6.83.
- Medium heat is not available for AK (380V/60 Hz) units.
- Outdoor motor is 0.75 hp for AK (380V/60 Hz) units.
- Outdoor motor is 0.40 hp for AK (380V/60 Hz) units.
- Standard Motor is 1.00 hp for YSC060AK (380V/60 Hz) units.
- Standard Motor is 2.00 hp for the YSC072AK (380V/60 Hz) units.
- Second stage/first stage if applicable.



Dimensional Data (6 - 10 Tons) Standard and High Efficiency

Figure DD-11 – Cooling with Electric Heat and Gas/Electric Models— 6 Ton Standard and High Efficiency; 7½ Ton Standard Efficiency

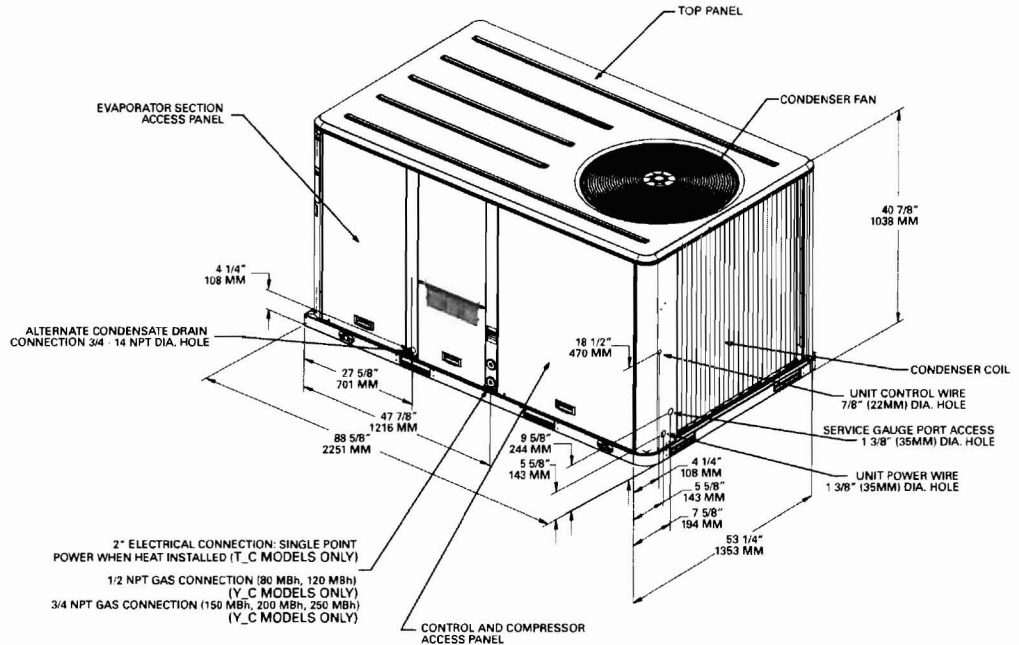
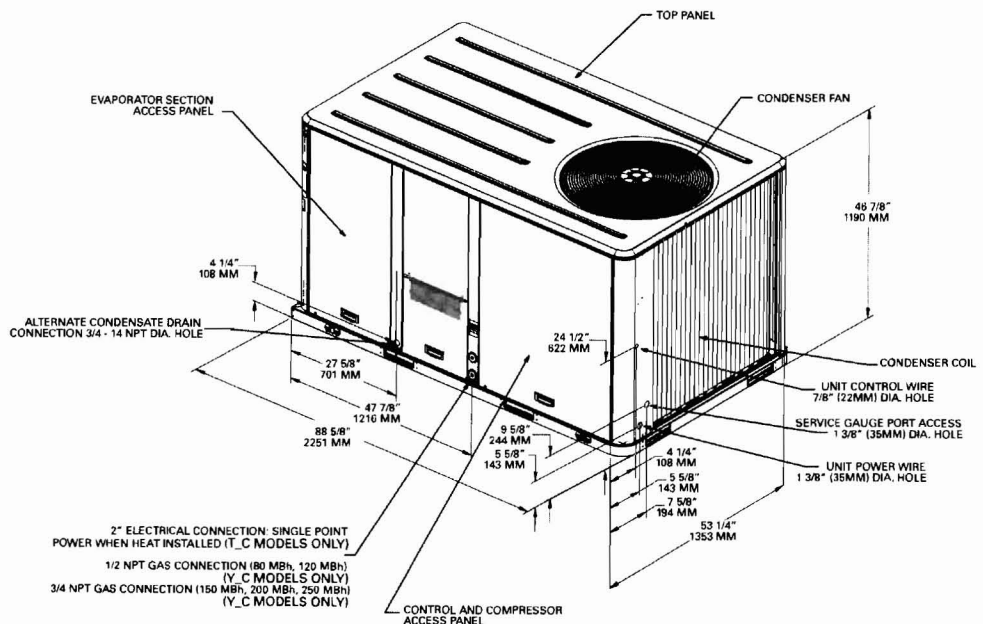


Figure DD-12 – Cooling with Electric Heat and Gas/Electric Models – 7½ Tons High Efficiency; 8½ and 10 Tons Standard and High Efficiency



Dimensional Data (6 - 10 Tons) Standard and High Efficiency

Figure DD-13 – Cooling with Electric Heat and Gas/
Electric Models – 6-10 Tons –
Downflow Airflow Supply/Return
Through the Base Utilities

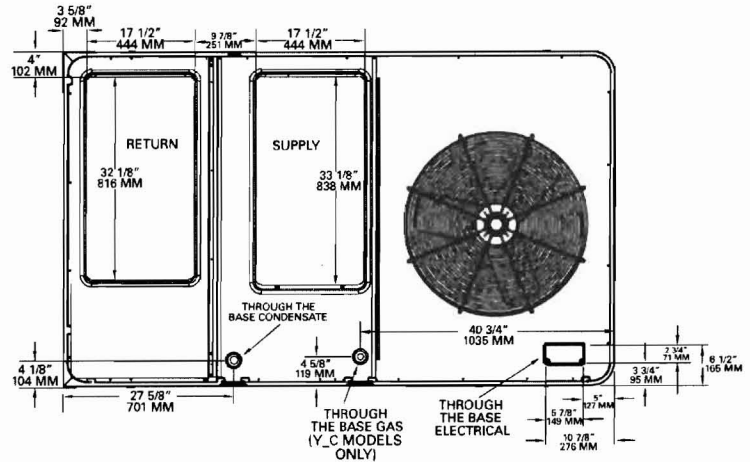


Figure DD-14 – Cooling with Electric Heat and
Gas/Electric Models – 6-10 Tons
Horizontal Airflow Supply and
Return

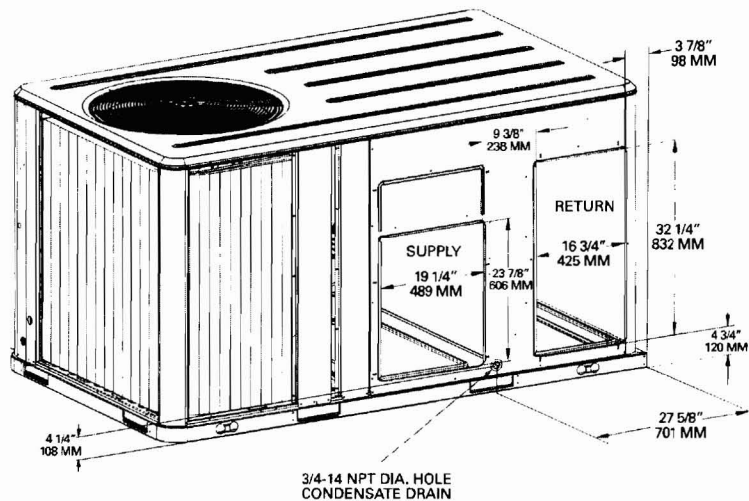
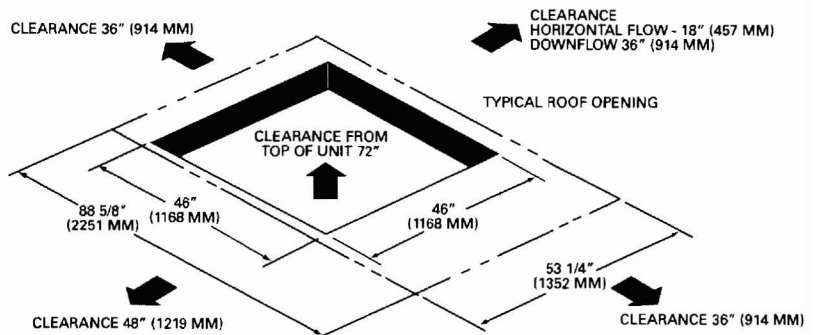


Figure DD-15 – Cooling with Electric Heat and Gas/
Electric Models – 6-10 Tons – Unit
Clearance and Roof Opening



All dimensions are in inches/millimeters.

Weights

Table W-1 – Maximum Unit and Corner Weights (Lbs) and Center of Gravity Dimensions (In.) Cooling w/Electric Heat Units only

Tons	Unit Model No.	Basic Model Weights ^{2,3}		Corner Weights (Lbs) ¹				Center of Gravity (In.)	
		Shipping ²	Net	A	B	C	D	Length	Width
3	TSC036A	501	409	132	104	79	94	31	19
	THC036A	518	426	139	108	84	95	32	19
4	TSC048A	526	434	140	110	91	94	33	19
	THC048A	560	468	146	113	97	111	31	20
5	TSC060A	543	451	149	114	88	99	31	18
	THC060A	610	518	165	124	105	124	31	19
6	TSC072A	824	681	236	177	119	150	38	21
	THC072A	861	718	235	182	128	173	38	22
7½	TSC090A	897	754	257	188	129	180	37	22
	TSC092A	899	756	261	202	131	162	39	21
	THC092A	1000	857	289	222	148	197	38	21
8½	TSC102A	978	835	281	223	149	181	40	21
	THC102A	1036	893	294	233	159	207	39	22
10	TSC120A	1023	880	298	238	158	187	40	21
	THC120A	1125	982	323	253	178	229	39	22

Notes:

1. Corner weights are given for information only.
2. Weights are approximate.
3. Weights do not include additional Factory or Field Installed options/accessories. For option/accessory additional weights, reference Table W-3 to be added to unit weights.

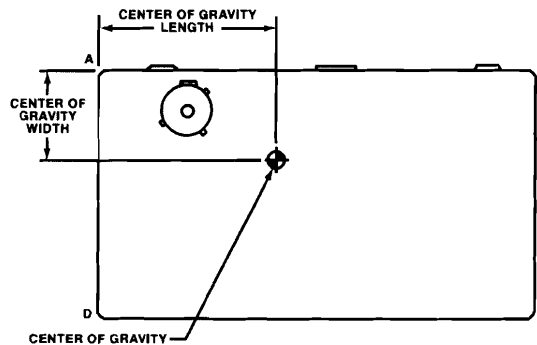


Table W-2 – Maximum Unit and Corner Weights (Lbs) and Center of Gravity Dimensions (In.) Gas/Electric Units only

Tons	Unit Model No.	Basic Model Weights (Lbs) ^{2,3}		Corner Weights (Lbs) ¹				Center of Gravity (In.)	
		Shipping	Net	A	B	C	D	Length	Width
3	YSC036A	572	480	151	124	96	109	32	19
	YHC036A	589	497	158	128	101	110	32	19
4	YSC048A	597	505	159	130	108	109	33	19
	YHC048A	631	539	166	133	114	126	32	20
5	YSC060A	614	522	169	134	105	114	32	18
	YHC060A	666	574	179	140	119	136	32	20
6	YSC072A	878	735	249	193	132	161	39	21
	YHC072A	915	772	249	198	141	184	39	22
7½	YSC090A	963	820	273	208	146	193	38	22
	YSC092A	965	822	277	222	147	175	40	21
	YHC092A	1066	923	306	243	165	210	39	22
8½	YSC102A	1042	899	297	243	165	194	40	21
	YHC102A	1100	957	310	252	175	220	40	22
10	YSC120A	1063	958	317	261	177	202	41	21
	YHC120A	1203	1060	342	277	197	245	40	22

Notes:

1. Corner weights are given for information only.
2. Weights are approximate.
3. Same as above.