City of Portland, Maine - Building or Use Permit Application

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

PERMIT ISSUED
APR 27 2004
CITY OF PORTLAND

Permit No:	Issue Date:	CBL:
04-0416		268 A011001

Location of Construction:	Owner Name:	Owner Address:	Phone:
155 Riverside St	H J Associates Ltd	155 Riverside St	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Avery Services, Inc.	7 Thomas Drive Westbrook	2077728687
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		HVAC	B4

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Hotel	Hotel / Install Direct vent natural gas / Carrier rooftop unit within same footprint.	$138.00	$12,621.00	5

FIRE DEPT: ☑ Approved ☐ Denied

Signature:

INSPECTION: Use Group: Type:

Signature:

Proposed Project Description:
Install Direct vent natural gas / Carrier rooftop unit within same footprint

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
ldobson	04/13/2004

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Date: OK 4/14/04	Date:	Date:

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

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155 Riverside St	H J Associates Ltd	155 Riverside St	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Avery Services, Inc.	7 Thomas Drive Westbrook	(207) 772-8687
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		HVAC	

Proposed Use:	Proposed Project Description:
Hotel / Install Direct vent natural gas / Carrier rooftop unit within same footprint.	Install Direct vent natural gas / Carrier rooftop unit within same footprint

Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 04/14/2004

Note: **Ok to Issue:** ☑

Dept: Building **Status:** Approved with Conditions **Reviewer:** Mike Nugent **Approval Date:** 04/26/2004

Note: **Ok to Issue:** ☑

1) This unit is in the same location as the previous unit. It's weight is less and there is a reduction in duct weight as well.

Dept: Fire **Status:** Approved **Reviewer:** Lt. MacDougal **Approval Date:** 04/15/2004

Note: **Ok to Issue:** ☑

FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT
HEATING OR POWER EQUIPMENT

RECEIVED APR 1 2 2004

PERMIT ISSUED
APR 27 2004
CITY OF PORTLAND

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 268 A 11 Use of Building ~~Hotel~~ Date 4/12/04

Name and address of owner of appliance Howard Johnsons 155 Riverside St Portland, Me 04103

Installer's name and address Avery Services Inc 7 Thomas Drive Westbrook, Me 04092 Telephone (207) 772-8687 Fax (207) 874-0933

Location of appliance:

- ☐ Basement ☐ Floor
- ☐ Attic ☑ Roof

Type of Fuel:

☑ Gas ☐ Oil ☐ Solid

Appliance Name: Carrier 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 1431
- ☐ Other

Type of Chimney:

- ☐ ~~Masonry Lined~~
  Factory built
- ☑ Metal
  Factory Built U.L. Listing #
- ☑ Direct Vent
  Type UL#

~~Type of Fuel Tank~~

- ☐ Oil
- ☑ Gas NATURAL GAS

Size of Tank N/A

Number of Tanks N/A

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

Cost of Work: $ 12621

Permit Fee: $ 138.00

Approved

Fire:

Ele.:

Bldg.:

Approved with Conditions

☐ See attached letter or requirement

Inspector's Signature Date Approved

Signature of Installer Douglas C Avery

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

268 A11

AVERY SERVICES, INC.
A Dolphin Group
WESTBROOK, MAINE 04092
(207) 772-8537

FAX (207) 874-0933

RECEIVED
APR 12 2004

TO: Howard Johnson
Attention: Mark Kinne
155 Riverside Street
Portland ME 04103

PHONE: 774-5861 (fax Is Same#) DATE: 3/19/04

JOB NAME / LOCATION: Replacement of your existing (1987) York Gas/ Electric Rooftop Lobby Unit

JOB NUMBER: Dca- 440265 JOB PHONE:

We hereby submit specifications and estimates for:

Avery Services, Inc. is pleased to quote as requested on the replacement of your existing (17 yr old) Gas/Electric Rooftop Unit supplying heat/cool to Offices/Lobby areas. Scope of work to include.

Removal & disposal of the existing Roof top Unit as per EPA Laws.
Supply & spot a new Manufacturer's Roof Curb or sleepers (roofing by others) set in same area as old unit as per sit visit.
Supply & install a Carrier 48TFE (7.5 ton) Gas/Electric Rooftop Unit set on the new Curb or sleepers and reconnected to your existing sidewall duct system on the roof as per our site visit discussion
Supply & install a Carrier Thermostat and low voltage wiring.
Supply & install a PVC Condensate Trap on the new Unit.
Reconnect Gas Piping from the existing Gas Supply System to the new Rooftop Unit..
Start up and test.

OPTIONS: 1) Add an Economizer to the new Rooftop Unit at same time as new unit. ADD $ 1,088.00 Int

EXCLUSIONS: Structural, Power Wiring, Roof work, drop ceiling work, fire dampers, fire systems, Exterior Duct sealing, soffiting, carpentry, painting, over time labor, and adequacy of existing systems.

We Propose hereby to furnish material and labor -- complete in accordance with the above specifications, for the sum of:
Eleven Thousand Five Hundred Fifty Three and 00/100 Dollars dollars ($ 11,553.00)
Payment to be made as follows:
25% upon acceptance - progress billing/net 10 days - Full balance due on completion OR Financing w/Dolphin Finance

Note: if payment is not made as outlined above, a service charge of 2% per month on the overdue balance plus all reasonable costs of collection, including attorney's fees will be paid.

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 strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation insurance.

Authorized Signature: Douglas O'Meara

Note: This proposal may be withdrawn by us if not accepted within 30 days.

Acceptance of Proposal The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature: MARK KINNE / General Manager

Date of Acceptance: March 19, 2004

Signature:

To Reorder:

Physical data — 48TM008-014

NEW Unit

268A11

Carrier®

UNIT SIZE 48TM		D/E/F008	D/E/F009	D/E/F012	D/E/014
NOMINAL CAPACITY (tons)		7 1/2	8 1/2	10	12 1/2
OPERATING WEIGHT (lb)					
Unit					
Al/Al*		870	880	1035	1050
Al/Cu*		881	896	1057	1077
Cu/Cu*		893	907	1080	1100
Economizer					
EconoMi$er2		75	75	75	75
Roof Curb†		143	143	143	143
COMPRESSOR		Reciprocating	Scroll	Scroll	Scroll
Quantity		2	2	2	2
No. Cylinders (per Circuit)		2	2	2	2
Oil (oz) (each compressor)		42	53	50	60
REFRIGERANT TYPE		R-22			
Expansion Device		Acutrol™ Metering Device			
Operating Charge (lb-oz)					
Circuit 1		7-10	7-14	8-10	9-8
Circuit 2		8-2	8-5	8-8	9-5
CONDENSER COIL		Enhanced Copper Tubes, Aluminum Lanced Fins			
Rows...Fins/in.		2...17	2...17	2...17	2...17
Total Face Area (sq ft)		20.50	20.50	25.00	25.00
CONDENSER FAN		Propeller Type			
Nominal Cfm		6500	6500	7000	7000
Quantity...Diameter (in.)		2...22	2...22	2...22	2...22
Motor Hp...Rpm		1/4...1100	1/4...1100	1/4...1100	1/4...1100
Watts Input (Total)		650	650	650	650
EVAPORATOR COIL		Enhanced Copper Tubes, Aluminum Double-Wavy Fins, Face Split			
Rows...Fins/in.		3...15	3...15	3...15	4...15
Total Face Area (sq ft)		8.9	8.9	10.0	11.1
EVAPORATOR FAN		Centrifugal Type			
Quantity...Size (in.)	Std	1...15 x 15	1...15 x 15	1...15 x 15	1...15 x 15
	Alt	1...15 x 15	—	1...15 x 15	1...15 x 15
	High-Static	1...15 x 15	1...15 x 15	1...15 x 15	—
Type Drive	Std	Belt	Belt	Belt	Belt
	Alt	Belt	—	Belt	Belt
	High-Static	Belt	Belt	Belt	—
Nominal Cfm		2900	3000	3200	5000
Maximum Continuous Bhp	Std	2.40	2.40	2.40	3.70
	Alt	2.40	—	2.90	5.25
	High-Static	3.70	3.70	5.25	—
Motor Frame Size	Std	56	56	56	56
	Alt	56	—	56	56
	High-Static	56	56	56	—
Fan Rpm Range	Std	590-840	685-935	685-935	860-1080
	Alt	685-935	—	835-1085	900-1260
	High-Static	860-1080	860-1080	830-1130	—
Motor Bearing Type		Ball	Ball	Ball	Ball
Maximum Allowable Rpm		2100	2100	2100	2100
Motor Pulley Pitch Diameter Min/Max (in.)	Std	2.4/3.4	2.8/3.8	2.8/3.8	4.0/5.0
	Alt	2.8/3.8	—	3.4/4.4	3.1/4.1
	High-Static	4.0/5.0	4.0/5.0	2.8/3.8	—
Nominal Motor Shaft Diameter (in.)	Std	5/8	5/8	5/8	7/8
	Alt	5/8	—	7/8	7/8
	High-Static	7/8	7/8	7/8	—
Fan Pulley Pitch Diameter (in.)	Std	7.0	7.0	7.0	8.0
	Alt	7.0	—	7.0	5.9
	High-Static	8.0	8.0	5.8	—
Belt, Quantity...Type...Length (in.)	Std	1...A...49	1...A...49	1...A...49	1...A...52
	Alt	1...A...49	—	1...A...49	1...BX...46
	High-Static	1...A...55	1...A...55	1...BX...46	—
Pulley Center Line Distance (in.)	Std	16.75-19.25	16.75-19.25	15.85-17.50	15.85-17.50
	Alt	16.75-19.25	—	15.85-17.50	15.85-17.50
	High-Static	16.75-19.25	16.75-19.25	15.85-17.50	—
Speed Change per Full Turn of Movable Pulley Flange (rpm)	Std	50	50	50	44
	Alt	50	—	50	50
	High-Static	60	60	60	—
Movable Pulley Maximum Full Turns From Closed Position	Std	5	5	5	5
	Alt	5	—	5	6
	High-Static	5	5	6	—
Factory Setting	Std	5	5	5	5
	Alt	5	—	5	5
	High-Static	5	5	5	—
Factory Speed Setting (rpm)	Std	590	685	685	860
	Alt	685	—	835	960
	High-Static	860	860	887	—
Fan Shaft Diameter at Pulley (in.)		1	1	1	1

UNIT SIZE 48TM			D/E/F008	D/E/F009	D/E/F012	D/E014
FURNACE SECTION						
Rollout Switch Cutout Temp (F)††			195	195	195	195
Burner Orifice Diameter (in. ...drill size)						
Natural Gas	Std	TMD	.120...31	.120...31	.120...31	.120...31
		TME	.120...31	.120...31	.120...31	.129...30
		TMF	.120...31	.120...31	.129...30	—
Liquid Propane	Alt	TMD	.096...41	.096...41	.096...41	.096...41
		TME	.096...41	.096...41	.096...41	.102...38
		TMF	.096...41	.096...41	.102...38	—
Thermostat Heat Anticipator Setting (amps)						
208/230 v and 575 Stage 1			.14	.14	.14	.14
Stage 2			.20	.20	.20	.20
460 v Stage 1			.14	.14	.14	.14
Stage 2			.20	.20	.20	.20
Gas Input (Btuh) Stage 1		TMD	125,000	125,000	120,000	180,000
		TME	120,000	120,000	180,000	200,000
		TMF	180,000	180,000	200,000	—
Stage 2		TMD	—	—	180,000	220,000
		TME	180,000	180,000	220,000	250,000
		TMF	220,000	220,000	250,000	—
Efficiency (Steady State) (%)			80	80	80	80
Temperature Rise Range		TMD	20-50	20-50	35-65	35-65
		TME	35-65	35-65	35-65	40-70
		TMF	45-75	45-75	40-70	—
Manifold Pressure (in. wg)						
Natural Gas	Std		3.5	3.5	3.5	3.5
Liquid Propane	Alt		3.5	3.5	3.5	3.5
Gas Valve Quantity			1	1	1	1
Gas Valve Pressure Range						
Psig			0.180-0.487	0.180-0.487	0.180-0.487	0.180-0.487
in. wg			5.0-13.5	5.0-13.5	5.0-13.5	5.0-13.5
Field Gas Connection Size (in.)		TMD	1/2	1/2	3/4	3/4
		TME	3/4	3/4	3/4	3/4
		TMF	3/4	3/4	3/4	—
HIGH-PRESSURE SWITCH (psig)						
Standard Compressor				450 ± 50		500 ± 50
Internal Relief (Differential)						
Cutout				428		428
Reset (Auto.)				320		320
LOW-PRESSURE SWITCH (psig)						
Cutout				7 ± 3		
Reset (Auto.)				22 ± 7		
FREEZE PROTECTION THERMOSTAT (F)						
Opens				30 ± 5		
Closes				45 ± 5		
OUTDOOR-AIR INLET SCREENS				Cleanable		
Quantity...Size (in.)				1...20 x 24 x 1 1...16 x 25 x 1		
RETURN-AIR FILTERS				Throwaway		
Quantity...Size (in.)			4...16 x 20 x 2	4...16 x 20 x 2	4...20 x 20 x 2	4...20 x 20 x 2

LEGEND

Al — Aluminum
Bhp — Brake Horsepower
Cu — Copper

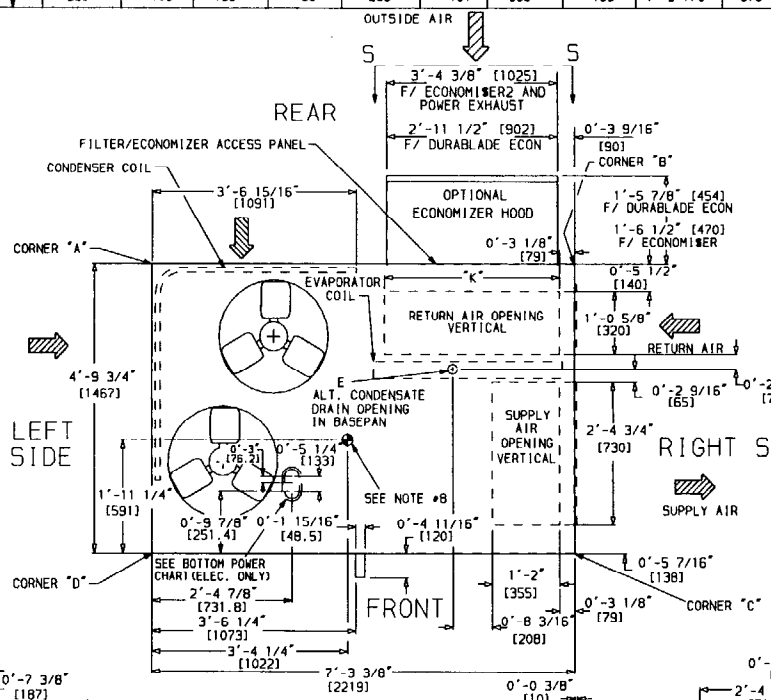
*Evaporator coil fin material/condenser coil fin material. Contact your local representative for details about coated fins.
†Weight of 14-in. roof curb.
**Single phase/three-phase.
††Rollout switch lockout is manually reset by interrupting power to unit or resetting thermostat.

Base unit dimensions — 48TM008-014

UNIT	STD. UNIT WEIGHT		DURABLADE ECON WEIGHT		ECONOMI$ER2 WEIGHT		ECONOMI$ER2 W/ P.E. WEIGHT		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		"H"		"J"		"K"		"L"	
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	FT.-IN.	MM	FT.-IN.	MM	FT.-IN.	MM	FT.-IN.	MM
48TM*008	870	395	44	20	75	34.1	145	65.9	189	86	161	73	239	109	280	127	2'-0 7/8"	632	3'-5 5/16"	1050	2'-9 11/16"	856	2'-2 7/16"	672
48TM*009	880	399							191	87	163	74	242	110	284	129	1'-2 7/8"	378	3'-5 5/16"	1050	2'-9 11/16"	856	2'-2 7/16"	672
48TM*012	1035	469							225	102	192	87	285	129	333	151	1'-2 7/8"	378	4'-1 5/16"	1253	3'-0 3/8"	924	2'-10 7/16"	875
48TM*014	1050	476							228	103	195	88	289	131	338	153	1'-2 7/8"	378	4'-1 5/16"	1253	3'-0 3/8"	924	2'-10 7/16"	875

NOTES:
1. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. ⊕ CENTER OF GRAVITY.
3. ▨ DIRECTION OF AIR FLOW.
4. ON VERTICAL DISCHARGE UNITS, DUCTWORK TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. FOR HORIZONTAL DISCHARGE UNITS FIELD SUPPLIED FLANGES SHOULD BE ATTACHED TO HORIZONTAL DISCHARGE OPENINGS, AND ALL DUCTWORK SHOULD BE ATTACHED TO THE FLANGES.
5. MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL),
   a. BETWEEN UNIT, FLUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES. 18 INCHES WHEN USING ACCESSORY FLUE DISCHARGE DEFLECTOR.
   b. BOTTOM OF UNIT TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB) 1 INCH.
      BOTTOM OF BASE RAIL TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB) 0 INCHES.
   c. CONDENSER COIL, FOR PROPER AIR FLOW, 36 INCHES ONE SIDE, 12 INCHES THE OTHER. THE SIDE GETTING THE GREATER CLEARANCE IS OPTIONAL.
   d. OVERHEAD, 60 INCHES TO ASSURE PROPER CONDENSER FAN OPERATION.
   e. BETWEEN UNITS, CONTROL BOX SIDE, 42 IN. PER NEC.
   f. BETWEEN UNIT AND UNGROUNDED SURFACES, CONTROL BOX SIDE, 36 IN. PER NEC.
   g. BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, CONTROL BOX SIDE, 42 IN. PER NEC.
   h. HORIZONTAL SUPPLY AND RETURN END, 0 INCHES WHEN THE ALTERNATE CONDENSATE DRAIN IS USED.
6. WITH THE EXCEPTION OF THE CLEARANCE FOR THE CONDENSER COIL AND COMBUSTION SIDE AS STATED IN NOTE #5a, b, AND c, A REMOVABLE FENCE OR BARRICADE REQUIRES NO CLEARANCE.
7. UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE FROM WOOD OR CLASS A, B, OR C ROOF COVERING MATERIAL IF SET ON BASE RAIL.
8. THE VERTICAL CENTER OF GRAVITY IS 1'-7" [483] FOR 008 AND 009, 1'-11" [584] FOR 012 AND 014 UP FROM THE BOTTOM OF THE BASE RAIL.

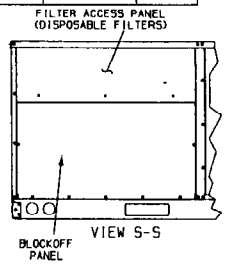
	CONNECTION SIZES
A	1 3/8" DIA. [35] FIELD POWER SUPPLY HOLE
B	2 1/2"DIA [64] POWER SUPPLY KNOCK-OUT
C	1 3/4"DIA [44] CHARGING PORT HOLE
D	7/8" DIA. [22] FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT CONDENSATE DRAIN
F	1/2"-14 NPT GAS CONN; 48HJD008,009, 48TMD008 3/4"-14 NPT GAS CONN., 48HJE/HJF008,009, 48HJD/HJE/THD/THE012,014, 48HJF/THF012, 48THE/THF008
G	2" DIA [51] POWER SUPPLY KNOCK-OUT

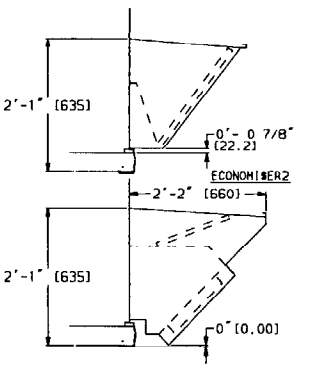


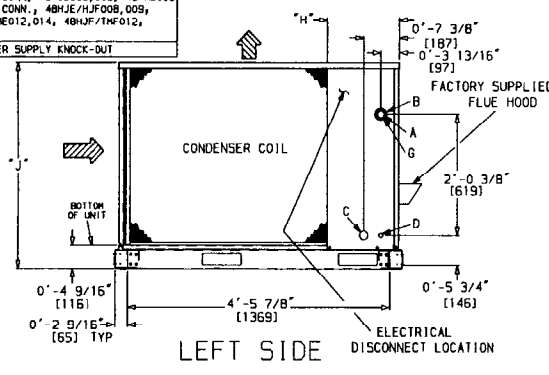
BOTTOM POWER CHART: THESE HOLES REQ'D FOR USE WITH ACCESSORY PACKAGES - CRBTMPWR003A00 (1/2",3/4") OR CRBTMPWR002A00, 4A00 (1/2",1-1/4")

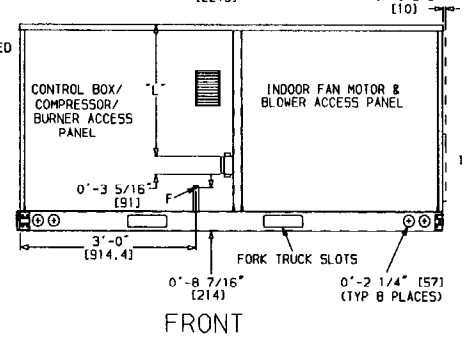
THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
1/2"	24V	7/8" [22.2]
3/4"	POWER*	1 1/8" [28.4]
1 1/4"	POWER*	1 3/4" [44.4]
(003) 1/2"FPT	GAS	1 1/4" [31.8]
(004) 3/4"FPT	GAS	1 5/8" [41.3]

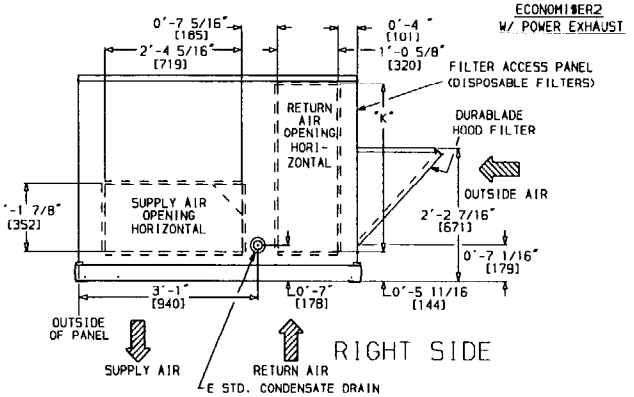
* - SELECT EITHER 3/4" OR 1 1/4" FOR POWER, DEPENDING ON WIRE SIZE.











26MA11

AVERY SERVICES, INC.
7 Thomas Drive
WESTBROOK, MAINE 04092
(207) 772-8687
FAX (207) 874-0933

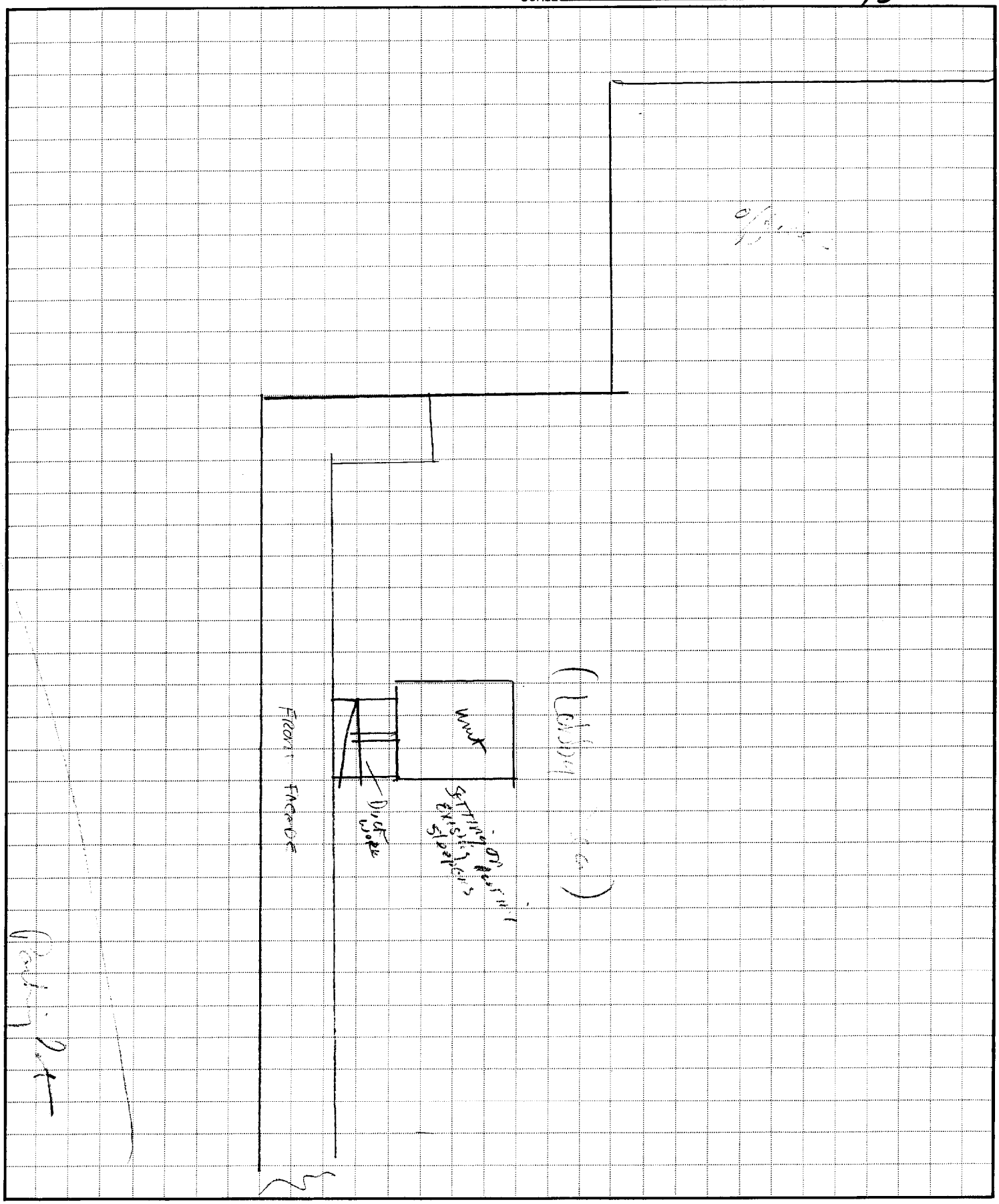
JOB Howard Johnsons

SHEET NO. 155 Riverside St OF - Portland

CALCULATED BY _____ DATE _____

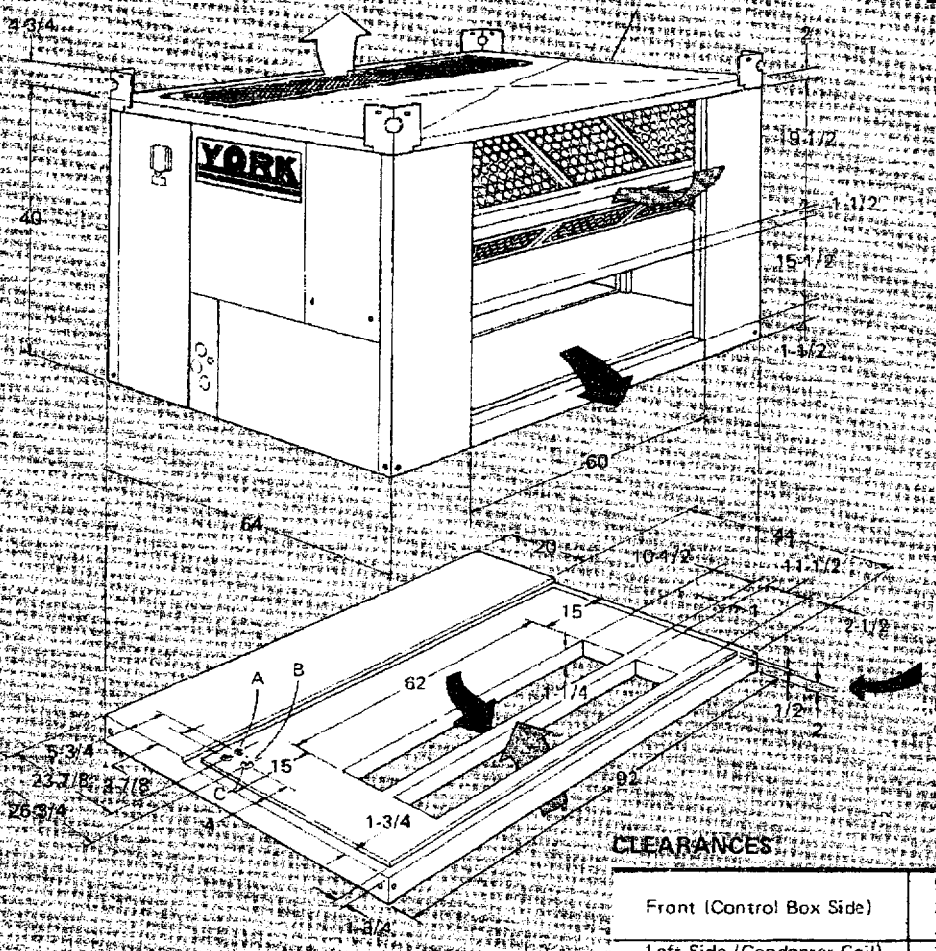
CHECKED BY _____ DATE _____

SCALE NONE (Basic Drawing)



Quick all old unit being removed

UNIT DIMENSIONS — D1SS090 & D1SS120



HOLE*	DIAMETER, INCHES	USED FOR
A	1-13/16	Thermostat & Status Panel Wiring
B	1-13/16	Power Wiring For Units Without Electric Heat
C	4-1/16	Gas Piping or Power Wiring For Units With Electric Heat

*Supplied with conduit fittings and plastic inserts.
Hole "B" is not provided on units with electric heat.
Hole "C" is not provided on cooling only units.

CLEARANCES

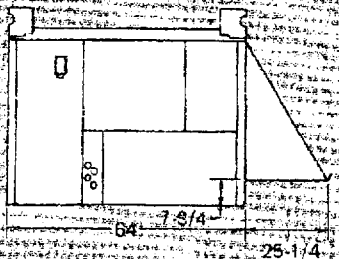
Front (Control Box Side)	90" Units with Gas Heat Option. 36" Units with Electric Heat. 36" Cooling only units.
Left Side (Condenser Coil)	36" For proper condenser air flow.
Rear	36"
Right Side	36" From unit or economizer rain hood.
Above Unit	120" For condenser air discharge.

These units can be installed under an outside overhang providing the overhang: (1) is at least 10 feet above the top of the unit and (2) extends no more than 3 feet beyond the end of the unit.

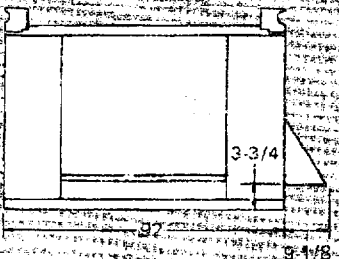
NOTE: A 6" clearance must be provided between any combustible material and the supply air ductwork of units with gas or electric heat.

All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

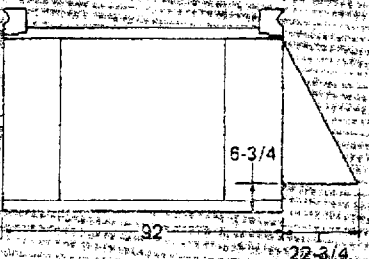
UNITS WITH ECONOMIZER RAIN HOOD



UNITS WITH EXHAUST AIR RAIN HOOD



UNITS WITH FIXED OUTDOOR RAIN HOOD



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OLD Unit Being Removed

ELECTRIC HEAT OPTIONS

ELECTRIC HEATER	NOMINAL VOLTAGE	NOMINAL KW	NOMINAL MBH	HEATING CAPACITY, HIGH STAGE									
				STANDARD				OPTIONAL[2]					
				STAGE 1		STAGE 1		STAGE 1A		STAGE 2		STAGE 2A	
				KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH
MODELS D1SS090, D1SS120													
E010	240 480	10	34	10	34	–	–	–	–	–	–	–	–
E020	240 480	20	68	10	34	10	34	–	–	–	–	–	–
E030	240 480	30	112	20	68	10	34	–	–	–	–	–	–
E040	240 480	40	137	20	68	20	68	–	–	–	–	–	–
MODELS D1SS180, D1SS240													
E040	240 480	40	137	20	68	20	68	–	–	–	–	–	–
E060	240 480	60	205	20	68	40	137	20	68	–	–	20	68
E080	240 480	80	273	40	137	40	137	20	68	20	68	20	68

[1] Capacities do not include the heat of the supply air blower motor. MBH = 3.415 X KW.

[2] One or two outdoor thermostats can be added to the control circuit for additional stages (stages 1A and 2A) of heating capacity.

COMPONENT WEIGHTS

COMPONENT	MODEL			
	SS090	SS120	SS180	SS240
Basic Unit	1100	1150	2100	2220
Outdoor Air Option				
No Outdoor Air	20	20	20	20
Economizer (Spring Return)	160	160	200	210
Supply Air Motor and Drive				
1½ HP	45	–	–	–
2 HP	50	50	–	–
3 HP	–	60	60	–
5 HP	–	–	80	80
7½ HP	–	–	–	100
Heating Option				
Cooling Only	15	15	15	15
Natural Gas Heat				
G200	125	–	–	–
G265	–	150	–	–
G280	–	–	160	160
G400	–	–	205	205
Electric Heat				
E010, E020	120	120	–	–
E030, E040	125	125	135	135
E060	–	–	140	140
E080	–	–	145	145
Supply/Return Duct Connections				
Bottom Side-By-Side	60	60	70	70
End	80	80	105	105
Accessories				
Roof Mounting Curb	210	210	195	220
Concentric Transition	70	70	100	100
Concentric Duct	55	55	70	70
Concentric Diffuser	50	50	65	65
Fixed Outdoor Air	30	30	50	50
Bottom To End Discharge Conversion Kit	40	40	–	–
Exhaust Air Relief Damper	30	30	45	45

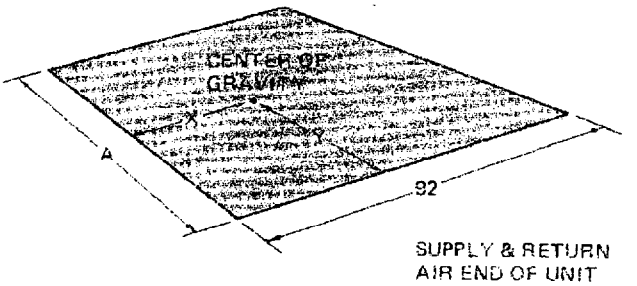
All weights are given in pounds.

ELECTRIC HEAT CORRECTION FACTORS

Nominal Voltage	Voltage	KW Capacity Multiplier
240	208	0.75
	230	0.92
	240	1.00
480	440	0.84
	460	0.92
	480	1.00

CENTERS OF GRAVITY

CONDENSER END OF UNIT



SUPPLY & RETURN AIR END OF UNIT

MODEL	DIMENSIONS, INCHES		
	A	X	Y
D1SS090	64	48	38
D1SS120	64	48	38
D1SS180	88	45	48
D1SS240	110	42	61

*Deduct 4" for economizer option.