

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that BJ PORTLAND LIMITED PARTNER

Located At 513 WARREN AVE

Job ID: 2012-10-5095-HVAC


CBL: 304- B-033-001

has permission to nine heating/ac roof top units
provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer

_____
Code Enforcement Officer / Plan Reviewer

10/19/2012

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD**

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Director of Planning and Urban Development
Jeff Levine

Job ID: 2012-10-5095-HVAC

Located At: 513 WARREN AVE

CBL: 304- B-033-001

Conditions of Approval:

Zoning

1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2. This B-4 zone has maximum noise allowances. The City of Portland strictly enforces the level of sound generated on the property. Any verified noise violations shall require the owner to take mitigating measures to bring the property and the noise it generates into compliance.

Building

1. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
2. Application approval based upon information provided by the applicant or design professional. Any deviation from approved plans requires separate review and approval prior to work.
3. A final statement by the designing engineer shall be submitted upon completion of work stating that the work was installed per plans.

Fire

1. Installation shall comply with City Code Chapter 10.
2. Fuel-fired boilers shall be protected in accordance with NFPA 101, *Life Safety Code*.
3. Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*;
4. NFPA 54, *National Fuel Gas Code*;
5. NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*;
6. NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;
7. NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-10-5095-HVAC	Date Applied: 10/1/2012	CBL: 304- B-033-001	
Location of Construction: 513 WARREN AVE	Owner Name: BJ PORTLAND LIMITED PARTNER	Owner Address: 25 RESEARCH DRIVE WESTBOROUGH, MA 01581	Phone:
Business Name:	Contractor Name: Keep U Warm Heating & AC, LLC	Contractor Address: PO BOX 721, SPRINGVALE, ME 04083	Phone: (207) 459-6210
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: B-4
Past Use: Retail/ Warehouse	Proposed Use: Same: Retail/Warehouse – to add 9 HVAC roof top units	Cost of Work: \$200,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: <i>M</i> Type: <i>HVAC</i>
		Signature: <i>Capt. Prime 10/18/12</i>	Signature: <i>[Signature]</i>
Proposed Project Description: nine roof top units		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Gayle		Zoning Approval	

<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 informatin may invalidate a building permit and stop all work.</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>___ Maj ___ Min ___ MM</p> <p>Date: <i>OK with conditions</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>
	<p>CERTIFICATION <i>10/4/12</i></p>		

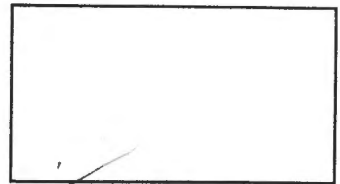
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition,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



Entered emailed copies

*2012 10 3095
304B033*

B-4

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 513 WARREN AVE. Use of Building RETAIL Date 10/1/12

Name and address of owner of appliance BJ'S WHOLESALE CLUB

Installer's name and address KEEP U WARM HEATING + AC, LLC
P.O. Box 721, ~~200~~ ~~100~~ SPRINGDALE ME 04083 Telephone 207-459-6210

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name:

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 # PNT7335
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type _____

RECEIVED
OCT 01 2012

Type of Fuel Tank

- Oil
- Gas

Dept. of Building Inspections
City of Portland Maine

*a heating / air condit.
roof top units*

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$200,000.00

Permit Fee: \$2,020.00

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Signature of Installer

Approved with Conditions

- See attached letter or requirement

Inspector's Signature

Date Approved



SUBMITTAL DATA

For: Approval

Order #: _____ **Date:** 7/23/2012
Project: BJ'S #29 Portland, ME Rev1
Project #: JC072312A
Location: Portland, ME
Unit Tags: RTU-1 thru 8, RTU-1 thru 8, RTU-1 thru 8, RTU-1 thru 8, RTU-1 thru 8,
RTU-9, RTU-9, RTU-9, RTU-1 thru 9

Engineer: Jim Hoffman
Engineered Design Group
11 Mechanic Street
Freehold, NJ 07728

Purchaser: George Archambeault
BJ's Wholesale Club, Inc.
25 Research Drive P.O. Box 5230
Westborough, MA 01581

Submitter: Julian Campos
York / JCI
5005 York Drive
Norman, OK 73069
405-419-6514

Engineered Design Group

Comments made on this shop drawing do not relieve the contractor from full compliance with the requirements of the project drawings and specifications. The contractor is responsible for: confirming and correlating all quantities and dimensions; coordinating his work with that of all other trades; performing his work in a safe and satisfactory manner; and completing work in a manner acceptable to all local and state codes and requirements.

REVIEWED
 REJECTED
 REVISE & RESUBMIT
 SUBMIT SPECIFIED ITEM
 FURNISH AS CORRECTED



Date: 7-24-12 By: Brian Kennedy
Consulting Engineers

Date
 7/23/2012
Project Name
 BJS #29 Portland, ME Rev1
Project Number
 JC072312A
Client / Purchaser
 George Archambeault



Submittal Summary Page

Qty	Tag #	Model #	Description
8	RTU-1 thru 8	ZR240N24S4DZZ10003	20 Ton, York Large Sunline Single Packaged R-410A Air Conditioner, 12.1 EER / 12.9 IEER MagnaDRY with Reheat, 240 MBH Output Aluminized Steel, Two Stage Gas Heat, 10 HP High Static Belt Drive Blower, 2" Throwaway Filters, 460-3-60, Galvanized Steel Drain Pan • Single Enthalpy Economizer w/Barometric Relief and Hoods (Bottom return only) • Non Powered Convenience Outlet (110 VAC) • HACR Circuit Breaker/Disconnect • Phase Monitor • Hinged & Tool Free Filter, Blower, Motor and Electrical Access Panels
8	RTU-1 thru 8	1WS0404	Wood Skid - Allows unit to be handled with 90 inch forks
8	RTU-1 thru 8	2AQ04700424C	CO ² Control Kit - Unit Mounted with Mounting Hardware
8	RTU-1 thru 8	2DH04700024	De-Humidistat, used to control Humidity in a thermostat controlled Reheat unit
8	RTU-1 thru 8	2EC04700924	Dual Enthalpy Sensor
1	RTU-9	ZJ120C00P4DAA5	10 Ton, York Predator Single Packaged R-410A Air Conditioner, 12.0 EER / 12.2 IEER, No Factory Installed Heat, 3 HP High Static Belt Drive Blower, 2" Throwaway Filters, 460-3-60, Microchannel Condenser Coil, Composite Drain Pan • Single Enthalpy Economizer w/Barometric Relief and Hoods (Bottom Return Only) • Non Fused Disconnect Switch • Non Powered Convenience Outlet • Phase Monitor
1	RTU-9	2AQ04700424C	CO ² Control Kit - Unit Mounted with Mounting Hardware
1	RTU-9	2EC04700924	Dual Enthalpy Sensor
1	RTU-1 thru 9	COATING - FIELD	Field Applied Condenser Coil Coating (8) ZR240 (1)ZJ120

NOTES:

Curbs provided by others.

-Warranty on this equipment including labor, troubleshooting, travel time, start-up etc. is the responsibility of the installing contractor.

Equipment start-up and commissioning by a factory trained technician is recommended.
Contact your supplying distributor or sales representative for additional information & guidance.



Large Sunline

ZR - 10.5 to 11.6 EER MagnaDry™ Single Pkg.
R-410A AC

Project Name: BJ'S #29 Portland, ME Rev1

Model #: ZR240N24S4DZZ10003

Quantity: 8 Tag #: RTU-1 thru 8

System: ZR240N24S4DZZ10003

Cooling Performance

Total capacity	258.1 MBH
Sensible capacity	189.9 MBH
Refrigerant type	R410A
Efficiency (at ARI)	12.10 EER
Integrated eff. (at ARI)	12.90 IEER
Ambient DB temp.	95 °F
Entering DB temp.	80 °F
Entering WB temp.	67 °F
Leaving DB temp.	58.0 °F
Leaving WB temp.	56.8 °F
Power input (w/o blower)	17.67 kW
Sound power	92 dB(A)

Reheat Performance

Total capacity	118.9 MBH
Ambient DB temp.	85 °F
Entering DB temp.	75 °F
Entering WB temp.	67 °F
Leaving DB temp.	75 °F
Leaving WB temp.	62.7 °F
Power input (w/o blower)	15.78 kW
Gallons of water per hour	13.57 gal/hr

Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	240 MBH
Heating input capacity (Max)	300 MBH
Leaving DB temp.	87.8 °F
Air temp. rise	27.8 °F
SSE	80.0 %
Stages	2

Supply Air Blower Performance

Supply air	8000 CFM
Ext. static pressure	0.8 IWG
Unit static resistance	0.15 IWG
Blower speed	1016 RPM
Duct location	Bottom
Motor rating	10.00 HP
Actual required BHP	6.71 HP
Power input	5.62 kW
Elevation	0 ft.
Drive type	BELT

Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	58.50 Amps
Unit max over-current protection	70 Amps

Dimensions & Weight

Hgt	53 in.	Len	181 in.	Wth	92 in.
Weight with factory installed options	3025 lbs.				

Clearances

Right	36 in.	Front	36 in.	Back	49 in.
Top	72 in.	Bottom	0 in.	Left	36 in.



20 Ton

- York Sunline Units are Manufactured at an ISO 9001 Registered Facility and Each Rooftop is Completely Computer-Run Tested Prior to Shipment.

Unit Features

- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards).
- Through-the-Curb and Through-The-Base Utility Connections
- Either Supply and/or Return can be Field Converted from Vertical to Horizontal Configuration without Cutting Panels
- Full Perimeter Base Rails with Built in Rigging Capabilities
- Hinged & Tool Free Filter, Blower, Motor and Electrical Access Panels
- Galvanized Steel Drain Pan
- Dual Refrigerant Circuits for Efficient Part Load Operation with Scroll Compressors
- Solid Core Liquid Line Filter Driers
- 240 MBH Output Aluminized Steel, Two Stage Gas Heat
- 10 HP High Static Belt Drive Blower
- Unit Ships with 2" Throwaway Filters with a Standard Filter Rack That Will Accept up to 4" Filters
- Single Point Power Connection
- HACR Circuit Breaker/Disconnect
- Non Powered Convenience Outlet (110 VAC)
- Phase Monitor
- Single Enthalpy Economizer w/Barometric Relief and Hoods (Bottom return only)

Standard Unit Controller: Simplicity® Control Board

- An Integrated Low-Ambient Control, Anti-Short Cycle Protection, Lead-Lag, Fan on and Fan off Delays, Low Voltage Protection, On-Board Diagnostic and Fault Code Display.
- Safety Monitoring - Monitors the High and Low-Pressure Switches, the Freezestats, the Gas Valve, if Applicable, and the Temperature Limit Switch on Gas and Electric Heat Units. The Unit Control Board will Alarm on Ignition Failures, Safety Lockouts and Repeated Limit Switch Trips.

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors and Electric Heater Elements
- Ten (10) Year Warranty - Aluminized and Stainless Steel Tubular Heat Exchangers





Large Sunline

ZR - 10.5 to 11.6 EER MagnaDry™ Single Pkg.
R-410A AC

Project Name: BJS #29 Portland, ME Rev1

Model #: ZR240N24S4DZZ10003

Quantity: 8 Tag #: RTU-1 thru 8

System: ZR240N24S4DZZ10003

Factory Installed Options

ZR240N24S4DZZ10003

Product Category:	Z	York Large Sunline Single Packaged R-410A Air Conditioner
Product Identifier:	R	12.1 EER / 12.9 IEER MagnaDRY with Reheat
Nominal Cooling Capacity:	240	20 Ton
Heat Type and Nominal Heat Capacity:	N24	240 MBH Output Aluminized Steel, Two Stage Gas Heat
Airflow:	S	Single Enthalpy Economizer w/Barometric Relief and Hoods (Bottom return only) 10 HP High Static Belt Drive Blower 2" Throwaway Filters
Voltage:	4	460-3-60
Installation Options:	D	Non Powered Convenience Outlet (110 VAC) HACR Circuit Breaker/Disconnect
Additional Options:	ZZ	Phase Monitor Galvanized Steel Drain Pan Hinged & Tool Free Filter, Blower, Motor and Electrical Access Panels
Product Generation:	1	

Field Installed Accessories

- 1WS0404 - Wood Skid - Allows unit to be handled with 90 inch forks (210.0 lbs)
- 2DH04700024 - Dehumidistat Humidity Control (1.0 lbs)
- 2AQ04700424C - CO2 Control Kit- Unit Mounted with Mounting Hardware (5.0 lbs)
- 2EC04700924 - Dual Enthalpy Kit for Return Air (1.0 lbs)

Project Name: **BJ'S #29 Portland, ME Rev1**

Model #: **ZR240N24S4DZZ10003**

Quantity: **8** Tag #: **RTU-1 thru 8**

System: **ZR240N24S4DZZ10003**

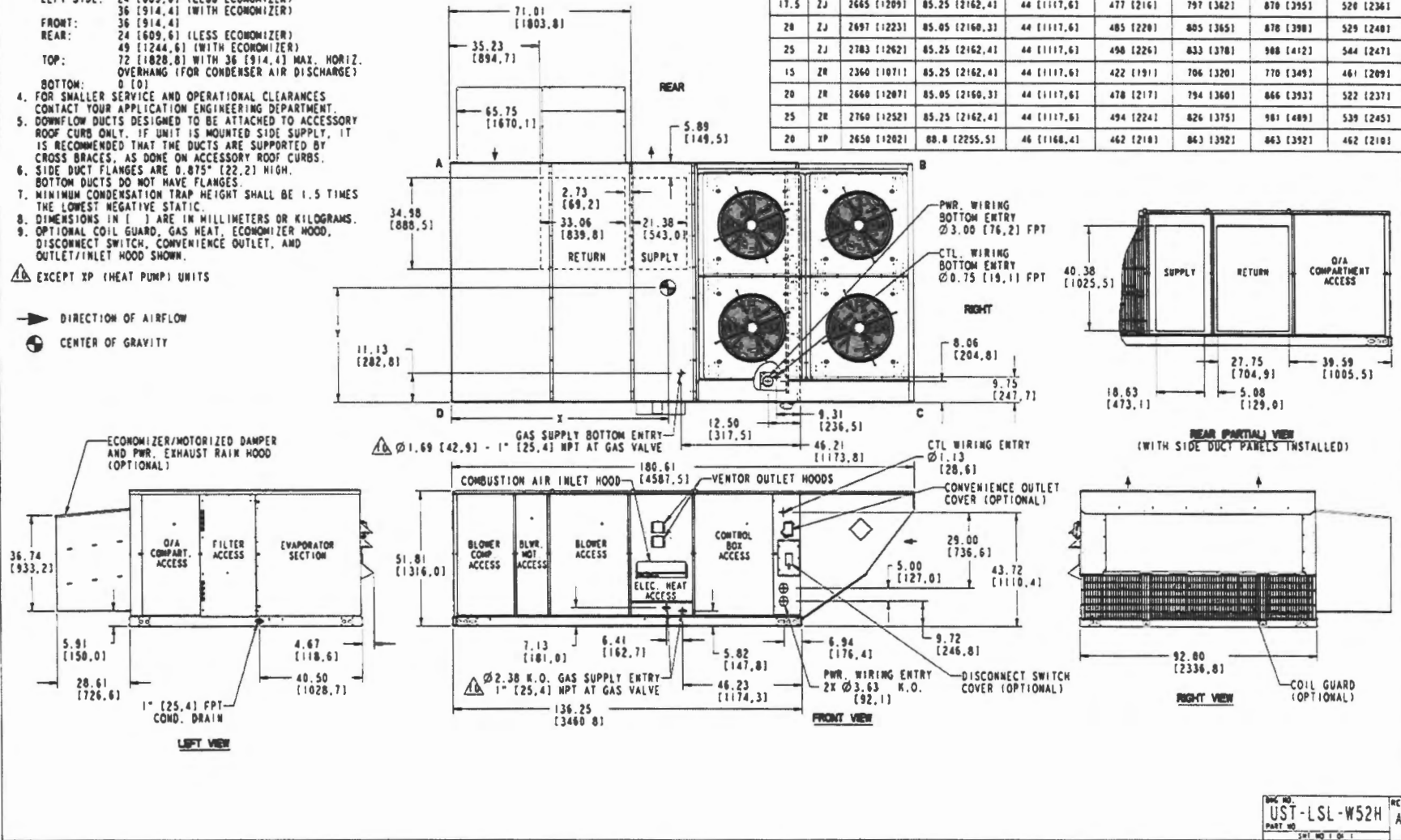
NOTES:

1. FOR OUTDOOR USE ONLY.
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
3. MIN. CLEARANCES TO BE:
RIGHT SIDE: 36 [914.4]
LEFT SIDE: 24 [609.6] (LESS ECONOMIZER)
36 [914.4] (WITH ECONOMIZER)
FRONT: 36 [914.4]
REAR: 24 [609.6] (LESS ECONOMIZER)
49 [1244.6] (WITH ECONOMIZER)
TOP: 72 [1828.8] WITH 36 [914.4] MAX. HORIZ. OVERHANG (FOR CONDENSER AIR DISCHARGE) 0 [0]
BOTTOM: 0 [0]
4. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
5. DOWNFLOW DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. IF UNIT IS MOUNTED SIDE SUPPLY, IT IS RECOMMENDED THAT THE DUCTS ARE SUPPORTED BY CROSS BRACES, AS DONE ON ACCESSORY ROOF CURBS.
6. SIDE DUCT FLANGES ARE 0.875" [22.2] HIGH. BOTTOM DUCTS DO NOT HAVE FLANGES.
7. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
8. DIMENSIONS IN [] ARE IN MILLIMETERS OR KILOGRAMS.
9. OPTIONAL COIL GUARD, GAS HEAT, ECONOMIZER HOOD, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND OUTLET/INLET HOOD SHOWN.

⚠ EXCEPT XP (HEAT PUMP) UNITS

- ➔ DIRECTION OF AIRFLOW
- ⊙ CENTER OF GRAVITY

TONNAGE	UNIT	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	D
15	ZJ	2609 [1183]	85.25 [2162.4]	44 [1117.6]	467 [212]	781 [354]	852 [387]	518 [231]
17.5	ZJ	2665 [1209]	85.25 [2162.4]	44 [1117.6]	477 [216]	797 [362]	870 [395]	528 [236]
20	ZJ	2697 [1223]	85.05 [2160.3]	44 [1117.6]	485 [220]	805 [365]	878 [398]	529 [240]
25	ZJ	2783 [1262]	85.25 [2162.4]	44 [1117.6]	490 [226]	833 [378]	908 [412]	544 [247]
15	ZR	2360 [1071]	85.25 [2162.4]	44 [1117.6]	422 [191]	706 [320]	770 [349]	461 [209]
20	ZR	2660 [1207]	85.05 [2160.3]	44 [1117.6]	478 [217]	794 [360]	866 [393]	522 [237]
25	ZR	2760 [1252]	85.25 [2162.4]	44 [1117.6]	494 [224]	826 [375]	901 [409]	539 [245]
20	XP	2650 [1202]	88.8 [2255.5]	46 [1168.4]	462 [210]	863 [392]	863 [392]	462 [210]



DOC. NO. **UST-LSL-W52H** REV **A**
PART NO. **311 001 01**



YORK

Large Sunline

ZR - 10.5 to 11.6 EER MagnaDry™ Single Pkg.
R-410A AC

Project Name: BJ'S #29 Portland, ME Rev1

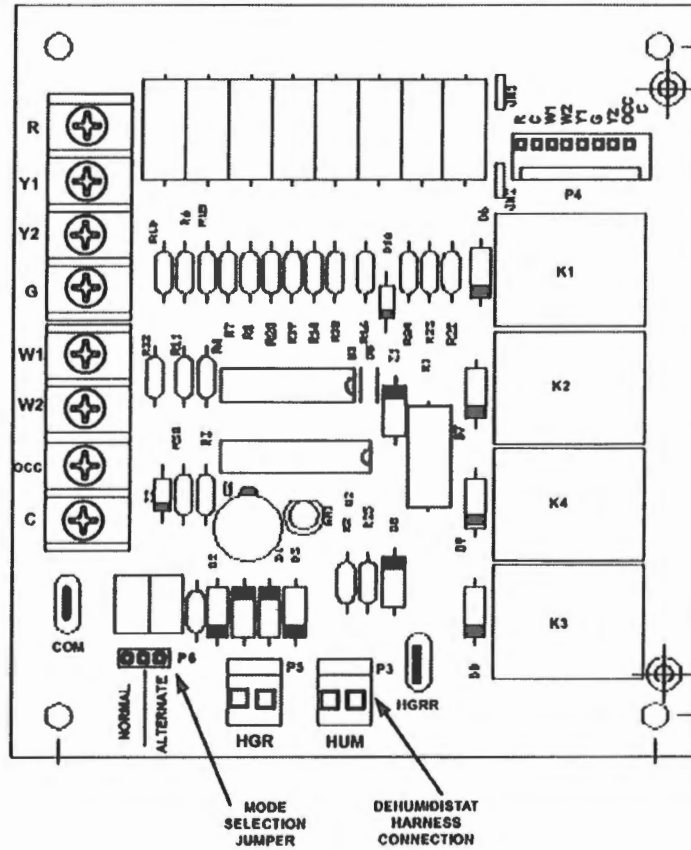
Model #: ZR240N24S4DZZ10003

Quantity: 8 Tag #: RTU-1 thru 8

System: ZR240N24S4DZZ10003

Reheat Control Board

Reheat Control Board





Large Sunline
 ZR - 10.5 to 11.6 EER MagnaDry™ Single Pkg.
 R-410A AC

Project Name: BJ'S #29 Portland, ME Rev1

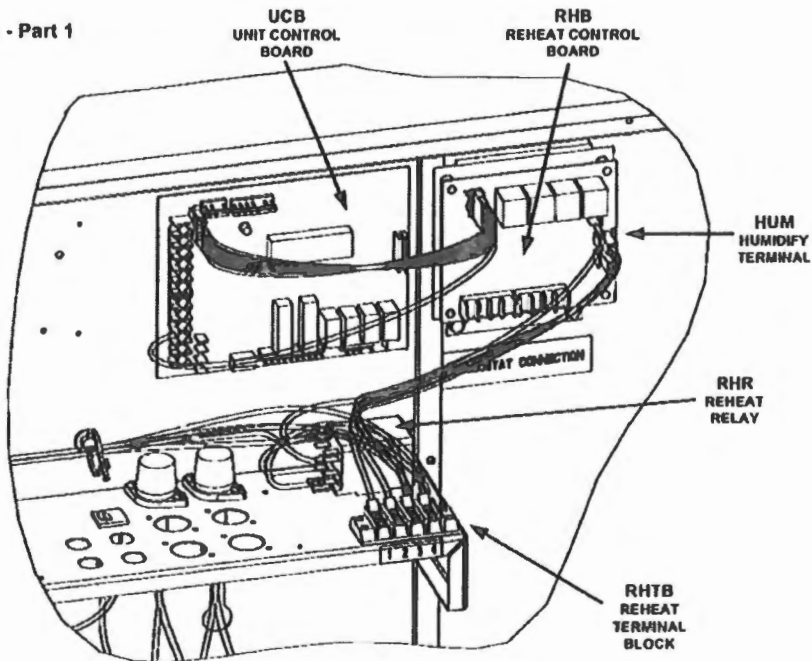
Model #: ZR240N24S4DZZ10003

Quantity: 8 Tag #: RTU-1 thru 8

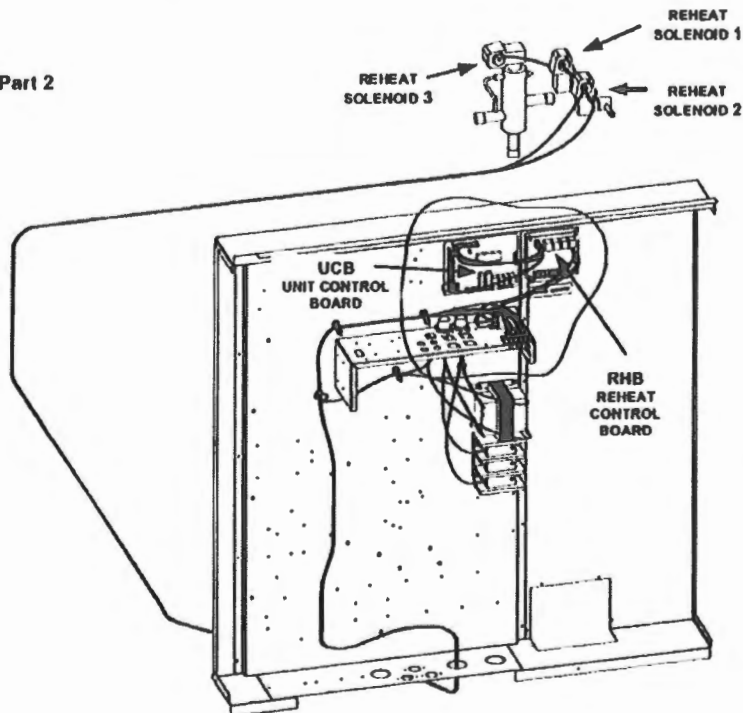
System: ZR240N24S4DZZ10003

Reheat Controls

Reheat Controls - Part 1



Reheat Controls - Part 2





Large Sunline

ZR - 10.5 to 11.6 EER MagnaDry™ Single Pkg.
R-410A AC

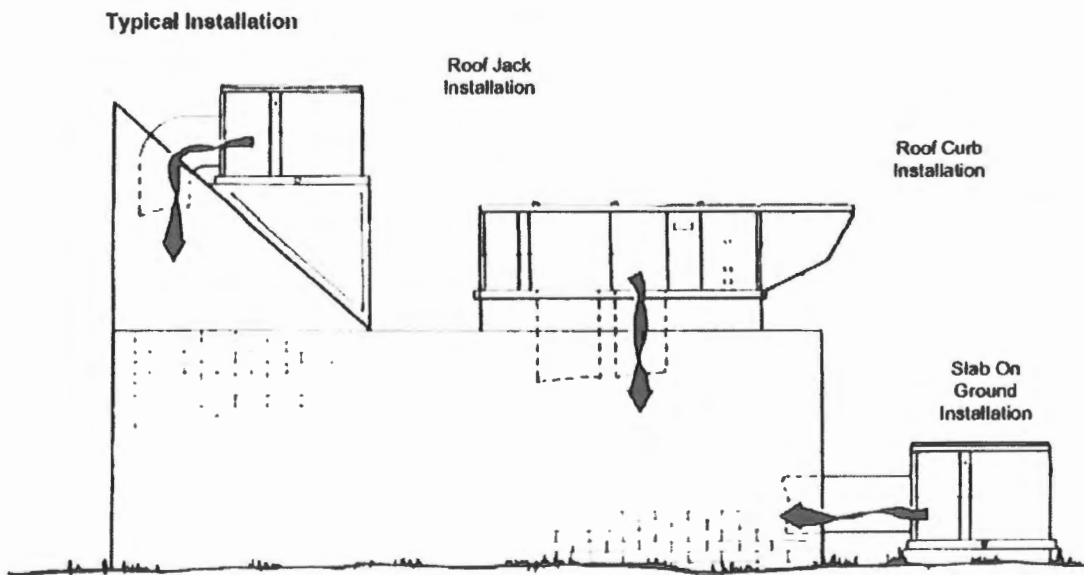
Project Name: BJ'S #29 Portland, ME Rev1

Model #: ZR240N24S4DZZ10003

Quantity: 8 Tag #: RTU-1 thru 8

System: ZR240N24S4DZZ10003

Typical Installations





Large Sunline

ZR - 10.5 to 11.6 EER MagnaDry™ Single Pkg.
R-410A AC

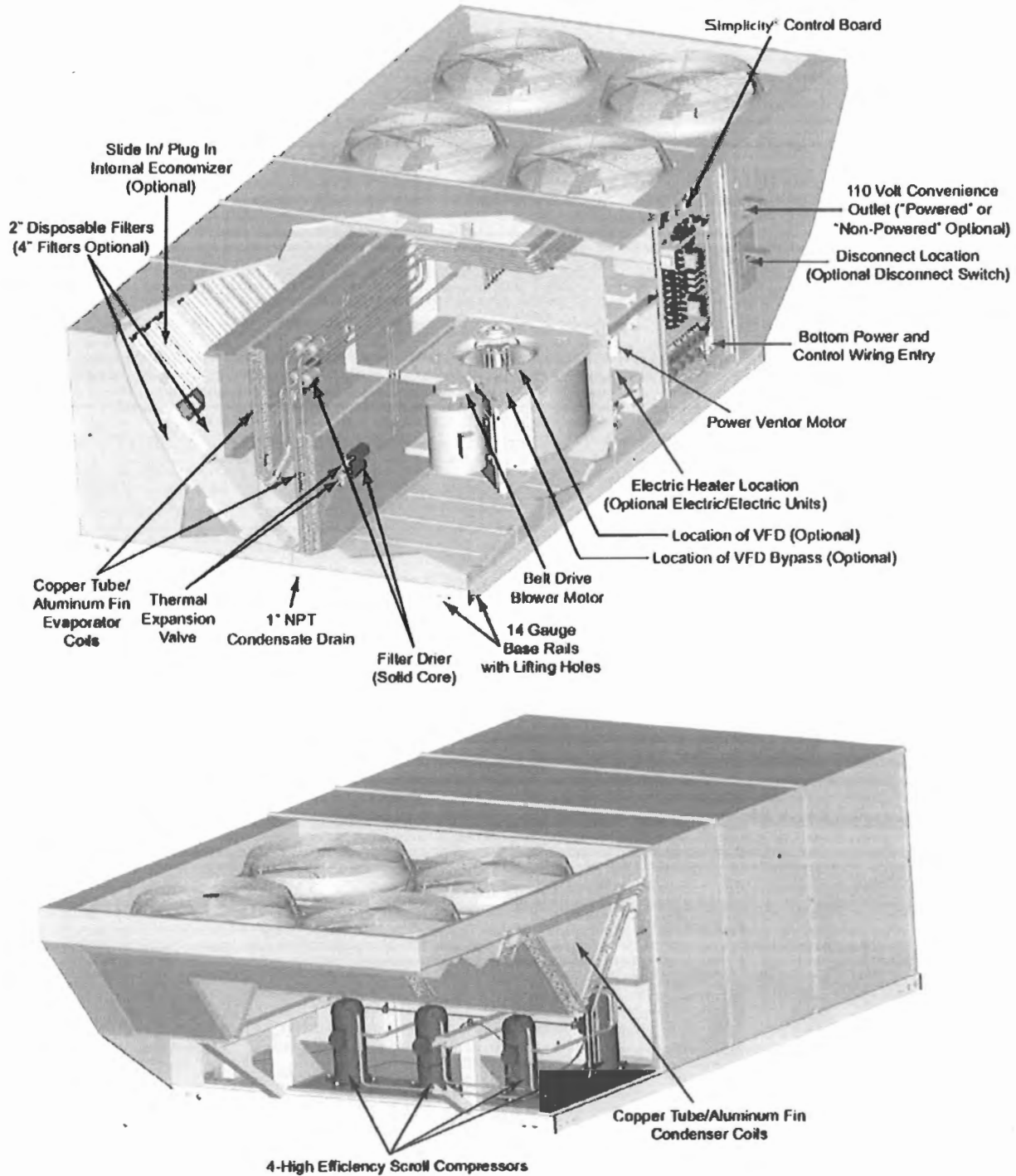
Project Name: BJ'S #29 Portland, ME Rev1

Model #: ZR240N24S4DZZ10003

Quantity: 8 Tag #: RTU-1 thru 8

System: ZR240N24S4DZZ10003

Typical Component Location





Predator

York 12.2 EER Single Pkg, R-410A AC

Project Name: BJ'S #29 Portland, ME Rev1

Model #: ZJ120C00P4DAA5

Quantity: 1 Tag #: RTU-9

System: ZJ120C00P4DAA5

Cooling Performance

Total capacity	124.3 MBH
Sensible capacity	87.2 MBH
Refrigerant type	R410A
Efficiency (at ARI)	12.00 EER
Integrated eff. (at ARI)	12.20 IEER
Ambient DB temp.	95 °F
Entering DB temp.	80 °F
Entering WB temp.	67 °F
Leaving DB temp.	56.2 °F
Leaving WB temp.	55.2 °F
Part load efficiency	13.4 IPLV
Power input (w/o blower)	8.98 kW
Sound power	90 dB(A)

Supply Air Blower Performance

Supply air	3400 CFM
Ext. static pressure	0.8 IWG
Unit static resistance	0.22 IWG
Blower speed	1036 RPM
Duct location	Bottom
Motor rating	3.00 HP
Actual required BHP	2.08 HP
Power input	1.94 kW
Elevation	0 ft.
Drive type	BELT

Electrical Data

Power supply	460-3-80
Unit min circuit ampacity	25.60 Amps
Unit max over-current protection	30 Amps

Dimensions & Weight

Hgt	51 in.	Len	89 in.	Wth	59 in.
Weight with factory installed options					
1160 lbs.					

Clearances

Right	12 in.	Front	36 in.	Back	36 in.
Top	72 in.	Bottom	0 in.	Left	36 in.



10 Ton

- York Predator units are manufactured at an ISO 9001 registered facility and each rooftop is completely computer-run tested prior to shipment.

Unit Features

- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards)
- Through-the-Curb and Through-the-Base Utility Connections
- Full perimeter base rails with built in rigging capabilities
- Hinged Access Panels
- Slide-Out Condensate Drain Pan
- Scroll Compressors
- Solid Core Liquid Line Filter Driers
- No Factory Installed Heat
- Unit Ships with 2" Throwaway Filters with a Standard Filter Rack that will Accept up to 4" Filters
- Single Point Power Connection
- Non Fused Disconnect Switch
- Non-Powered Convenience Outlet
- Phase Monitor
- Single Enthalpy Economizer w/Barometric Relief and Hoods (Bottom Return Only)

Standard Unit Controller: Simplicity® Control Board

- Safety Monitoring - Monitors the high and low-pressure switches, the frezestats, the gas valve, if applicable, and the temperature limit switch on gas and electric heat units. The unit control board will alarm on ignition failures, safety lockouts and repeated limit switch trips.

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors and Electric Heater Elements



Predator

York 12.2 EER Single Pkg, R-410A AC

Project Name: BJ'S #29 Portland, ME Rev1

Model #: ZJ120C00P4DAA5

Quantity: 1 Tag #: RTU-9

System: ZJ120C00P4DAA5

Factory Installed Options

ZJ120C00P4DAA5

Product Category:	Z	York Predator Single Packaged R-410A Air Conditioner
Product Identifier:	J	12.0 EER / 12.2 IEER
Nominal Cooling Capacity:	120	10 Ton
Heat Type and Nominal Heat Capacity:	C00	No Factory Installed Heat
Airflow:	P	3 HP High Static Belt Drive Blower Single Enthalpy Economizer w/Barometric Relief and Hoods (Bottom Return Only) 2" Throwaway Filters
Voltage:	4	460-3-60
Installation Options:	D	Non Fused Disconnect Switch Non Powered Convenience Outlet
Additional Options:	AA	Microchannel Condenser Coil Phase Monitor Composite Drain Pan
Product Generation:	5	

Field Installed Accessories

- 2AQ04700424C - CO2 Control Kit- Unit Mounted with Mounting Hardware (5.0 lbs)
- 2EC04700924 - Dual Enthalpy Kit for Return Air (1.0 lbs)

Project Name: BJ'S #29 Portland, ME Rev1

Model #: ZJ120C00P4DAA5

Quantity: 1 Tag #: RTU-9

System: ZJ120C00P4DAA5

NOTES:

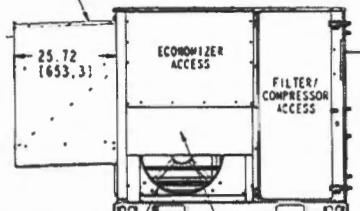
1. FOR OUTDOOR USE ONLY.
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
3. MIN. CLEARANCES TO BE:
 RIGHT SIDE: 12 [305]
 LEFT SIDE: 36 [915]
 FRONT: 36 [915]
 REAR: 36 [915]
 TOP: 72 [1830]
 BOTTOM: 0 [0]
4. TO REMOVE THE SLIDE-OUT DRAIN PAN, A REAR CLEARANCE OF 69 IN (1525 mm) IS REQUIRED. IF SPACE IS UNAVAILABLE, THE DRAIN PAN CAN BE REMOVED THROUGH THE FRONT BY SEPARATING THE CORNER WALL.
5. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
6. DOWNFLOW DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. IF UNIT IS MOUNTED SIDE SUPPLY, IT IS RECOMMENDED THAT THE DUCTS ARE SUPPORTED BY CROSS BRACES, AS DONE ON ACCESSORY ROOF CURBS.
7. SIDE DUCT FLANGES ARE 0.75" HIGH. BOTTOM DUCTS DO NOT HAVE FLANGES.
8. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
9. DIMENSIONS IN () ARE IN MILLIMETERS OR KILOGRAMS.
10. OPTIONAL COIL GUARDS, POWER EXHAUST, GAS HEAT, ECONOMIZER, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND BAROMETRIC RELIEF HOOD SHOWN.

▲ EXCEPT XP/XA (HEAT PUMP) UNITS.

➔ DIRECTION OF AIRFLOW

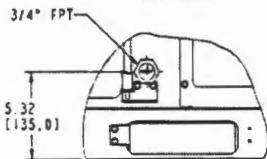
⊙ CENTER OF GRAVITY

OUTSIDE AIR INTAKE HOOD (OPTIONAL)

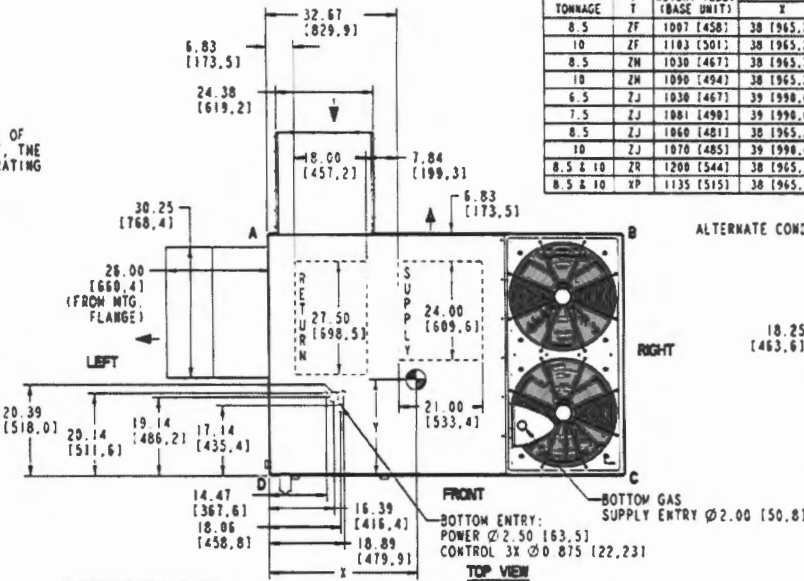


POWER EXHAUST (OPTIONAL)
 BAROMETRIC RELIEF HOOD/ POWER EXHAUST (OPTIONAL)

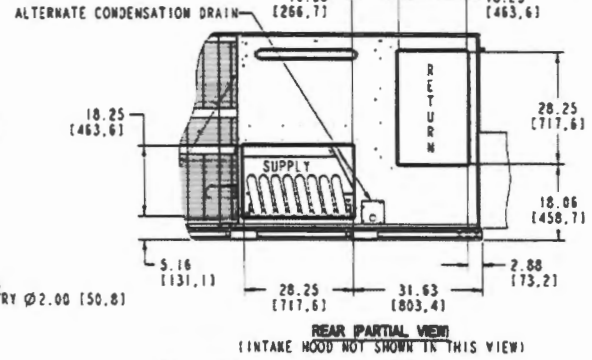
LEFT VIEW



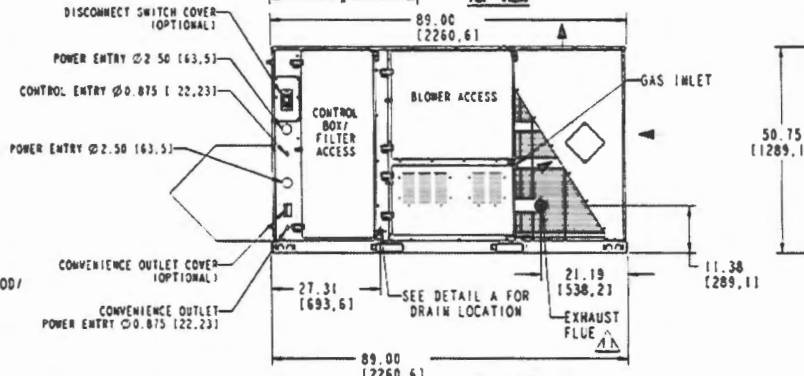
DETAIL A
 SCALE 0.300



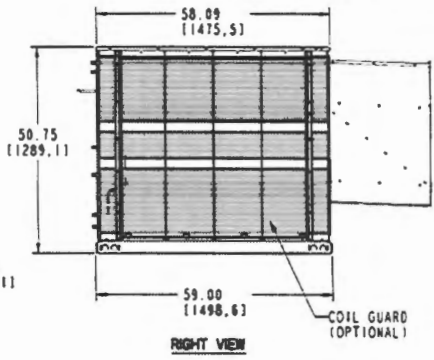
TONNAGE	H I T	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	D
8.5	ZF	1007 [458]	38 [965.2]	24 [609.6]	235 [107]	175 [79]	255 [116]	342 [155]
10	ZF	1183 [501]	38 [965.2]	24 [609.6]	257 [117]	192 [87]	279 [127]	375 [170]
8.5	ZM	1030 [467]	38 [965.2]	24 [609.6]	240 [109]	179 [81]	261 [118]	350 [159]
10	ZM	1090 [494]	38 [965.2]	24 [609.6]	254 [115]	189 [86]	276 [125]	371 [168]
6.5	ZJ	1030 [467]	39 [990.6]	25 [635]	245 [111]	191 [87]	260 [118]	333 [151]
7.5	ZJ	1081 [490]	39 [990.6]	25 [635]	257 [117]	201 [91]	273 [124]	350 [159]
8.5	ZJ	1060 [481]	38 [965.2]	24 [609.6]	247 [112]	184 [84]	268 [122]	360 [163]
10	ZJ	1070 [485]	39 [990.6]	24 [609.6]	245 [111]	191 [87]	278 [126]	357 [162]
8.5 & 10	ZR	1200 [544]	38 [965.2]	25.5 [647.7]	297 [135]	221 [100]	291 [132]	398 [177]
8.5 & 10	XP	1135 [515]	38 [965.2]	25.5 [647.7]	281 [128]	209 [95]	275 [125]	369 [167]



REAR (PARTIAL VIEW)
 (INTAKE HOOD NOT SHOWN IN THIS VIEW)



FRONT VIEW
 (OPTIONAL FRONT COIL GUARD NOT SHOWN IN THIS VIEW)



RIGHT VIEW

SUBMITTAL DWG.
 STANDARD FLAT COIL, 30" CAB
 100-00
 JST-PRED-F50H
 18 05 1 00

Project Name: BJ'S #29 Portland, ME Rev1

Model #: ZJ120C00P4DAA5

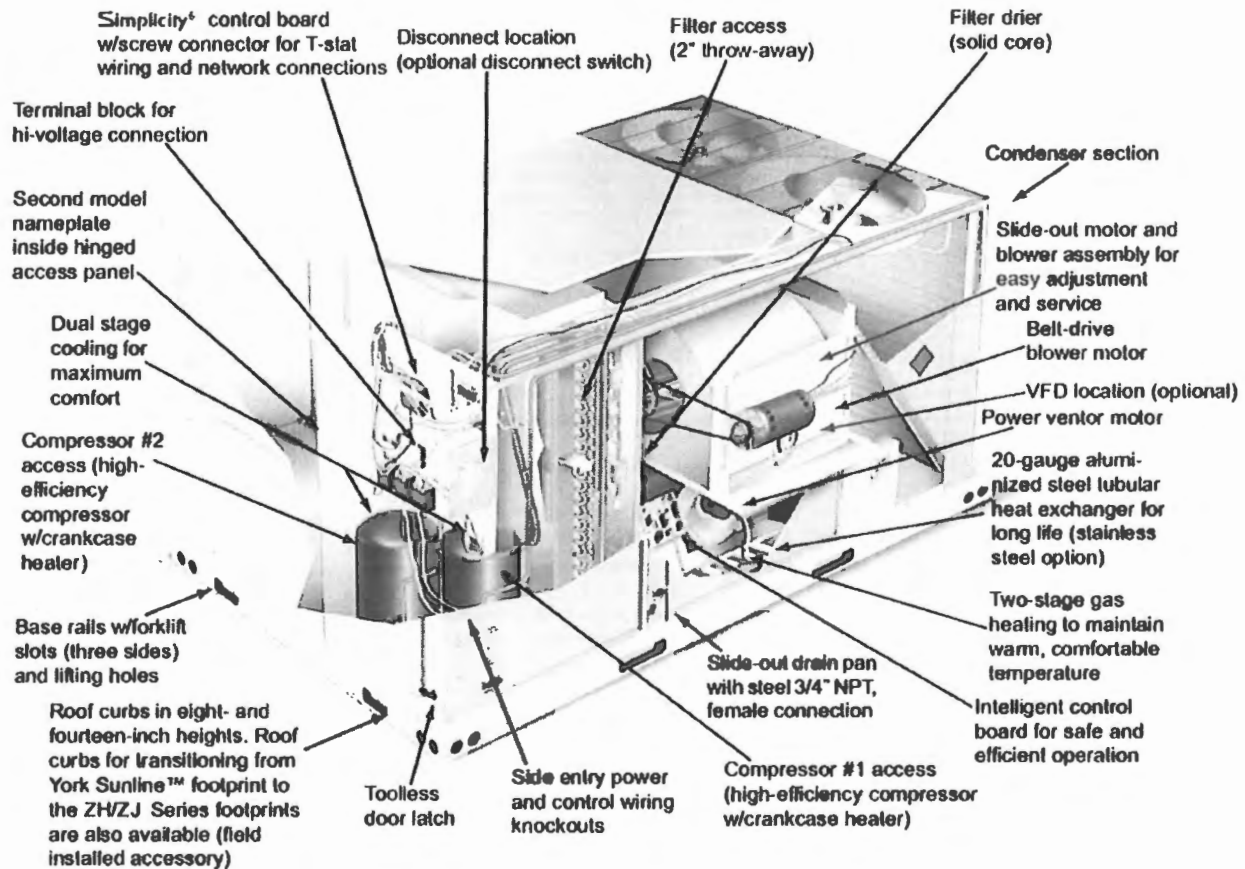
Quantity: 1 Tag #: RTU-9

System: ZJ120C00P4DAA5

ZH/ZJ078-150 Component Location

Component Location

Cooling With Gas Heat





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Receipts Details:

Tender Information: Check , BusinessName: Keep U Warm Heating & Air Conditioner LLC,
Check Number: 1120

Tender Amount: 2020.00

Receipt Header:

Cashier Id: gguertin

Receipt Date: 10/1/2012

Receipt Number: 48835

Receipt Details:

Referance ID:	8223	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	2020.00	Charge Amount:	2020.00
Job ID: Job ID: 2012-10-5095-HVAC - nine roof top units			
Additional Comments: 513 Warren Ave.			

Thank You for your Payment!