

NOTICE OF DECISION

*Si necesita ayuda para comprender esta informacion, por favor llame
503-588-6173*

ADMINISTRATIVE DECISION - MINOR HISTORIC REVIEW

CASE NO. Historic Review Case HIS16-15 / Amanda No. 16-109717-DR

NOTICE OF DECISION DATE: June 3, 2016

REQUEST: Minor historic design review of a proposal to install 12 new HVAC Units, a roof hatch and 6 skylights on the roof of the Starkey-McCully Building, a historic contributing resource within the Salem Downtown National Register Historic District, on property approximately 0.1 acres in size, zoned CB (Central Business District) and located at 223 Commercial Street NE / 97301 (Marion County Assessors Map and Tax Lot number: (073W22DC08900).

APPLICANT: Kip Patterson, for the Salem Education Foundation

LOCATION: 223 Commercial Street NE, Salem OR 97301

CRITERIA: Salem Revised Code (SRC) Chapter 230.040(j)

DECISION: Based upon the application materials deemed complete on June 2, 2016, and the findings as presented in this report, the application is APPROVED.

FINDINGS: The applicant is proposing to install 12 new rooftop HVAC units and 6 skylights on the roof of the Starkey-McCully Building. Staff determined that the following standards from SRC 230 are applicable to this project:

Roof Mechanicals

230.040 (j) Mechanical Equipment and Service Areas. Addition and replacement of mechanical equipment, including, but not limited to heating and cooling systems, solar panels and telecommunications equipment, and service areas including, but not limited to dumpster enclosures, is permitted.

(1) Materials. Materials shall be harmonious in type, color, scale, texture, and proportions with the building and the district generally.

Findings

The applicant is proposing to install twelve new HVAC units (two air conditioners, six heat pumps, three roof vents, one mini-split cooling unit and a roof hatch) on the roof of the Starkey-McCully Building. The units and roof hatch will be of metal, and painted to match the existing mechanicals on the roof. This material is commonly found throughout the historic district, and is compatible with the building and the district generally thereby meeting 230.040(j)(1).

The proposed skylights will be of metal and glass, and will be painted to match the existing rooftop mechanicals and are therefore compatible with the building and the

PLANNING DIVISION
555 LIBERTY ST. SE, RM 305
SALEM, OREGON 97301
PHONE: 503-588-6173
FAX: 503-588-6005

CITY OF Salem
AT YOUR SERVICE

district generally thereby meeting 230.040(j)(1).

(2) Design.

(A) Mechanical equipment and service areas should be located out of public view and designed as an integral part of the overall building design.

Finding: The applicant is proposing to install HVAC units that will be installed on the roof of the Starkey-McCulley building. The top of the tallest unit will not exceed 4' 8" above the rooftop elevation, and while the unit will extend approximately 1' above the top of the parapet, due to its location in the middle of the building, it will not be easily visible from the right of way. The proposed units are located between 12'8" and 149' from the front parapet, secured to the roof and out of the public view, thereby meeting SRC 230.040(j)(2)(A).

(B) Mechanical equipment and service areas should be placed at the rear of the building, recessed on the roof of the building, or screened by appropriate fencing.

Finding: The applicant is proposing to install HVAC equipment on the roof which will match the material and exterior appearance of the existing HVAC equipment, recessed on the center of the roof behind the front parapet, thereby meeting SRC 230.040(j)(2)(B).

(C) Low-profile mechanical units and elevator shafts may be placed on rooftops if they are not visible from the street, or set back and screened from view.

Finding: The applicant is proposing to install low profile mechanical units at the center of the Starkey-McCully roof, which will be set back and screened from view by the front parapet, thereby meeting SRC 230.040(j)(2)(C).

(D) Solar panels should have low profiles and not be visible from right-of-way, other than alleys, and shall be installed in a manner that minimizes damage to historic materials.

Finding: The applicant is not proposing to install solar panels; therefore this standard is not applicable to the evaluation of this proposal.

(E) Skylights shall be flat and shall not alter the existing profile of the roof. Bubble-type skylights are prohibited.

Finding: The applicant is proposing to install six skylights with openings approximately 5' x 5' in size that will be flush to the roof and will not alter the roof's existing profile, thereby meeting SRC 230.040(2)(E).

(F) Mechanical equipment placed at street level should be screened in a manner that is compatible with the streetscape and adjacent buildings.

Finding: The applicant is not proposing to install any HVAC equipment at street level therefore this standard is not applicable to the evaluation of this proposal.

(G) New skylights and vents shall be placed behind and below the parapet level.

Finding: The applicant is proposing to install six new skylights on the roof of the Starkey-McCully Building that will be flush on the roof and behind and below the parapet level thereby meeting SRC 230.040(j)(2)(G). The new HVAC units will be low profile, not visible from the street, and screened by the roof parapet.

DECISION: Based upon the application materials deemed complete on June 2, 2016, and the findings as presented in this report, the application is APPROVED.



Kimberli Fitzgerald, AICP, Historic Preservation Officer
Planning Administrator Designee

kfitzgerald@cityofsalem.net; Phone: (503)540-2397

*This Decision becomes effective on, **June 21, 2016**. No work associated with this Decision shall start prior to this date unless expressly authorized by a separate permit, land use decision, or provision of the Salem Revised Code (SRC).*

Application Deemed Complete: June 2, 2016

Notice of Decision Mailing Date: June 3, 2016

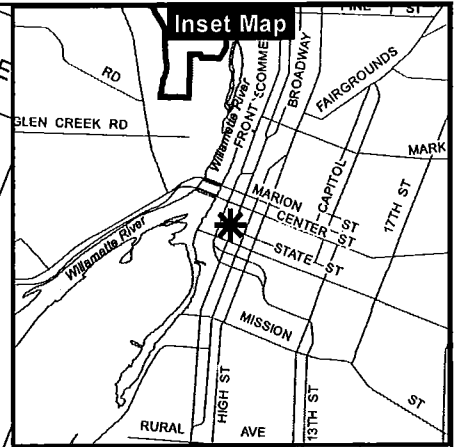
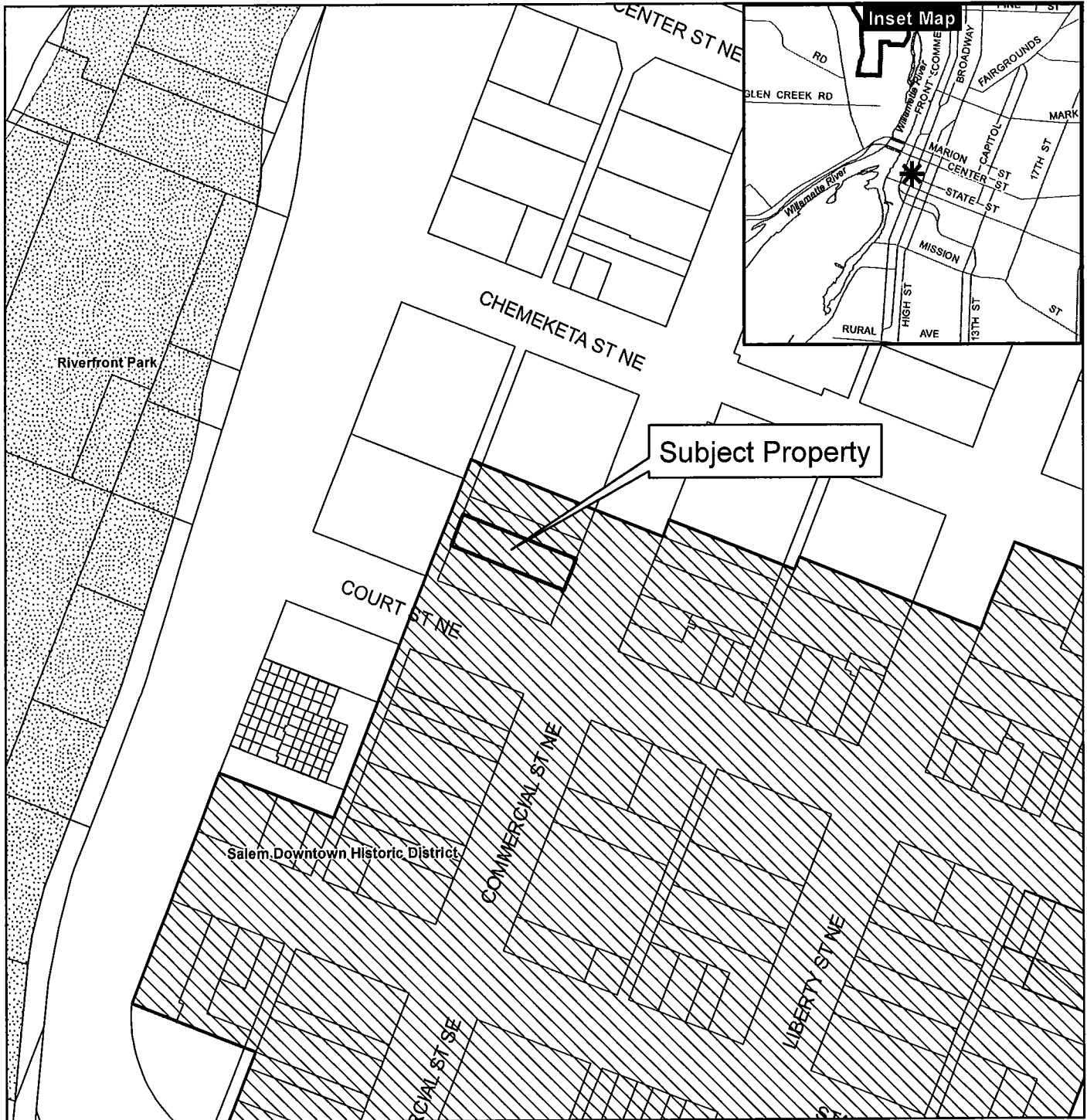
Decision Effective: June 21, 2016

State Mandated Decision Date: September 30, 2016

The rights granted by this decision must be exercised by June 21, 2018, or this approval shall be null and void. This decision is final unless written appeal from an aggrieved party is filed with the City of Salem Planning Division, Room 305, 555 Liberty Street SE, Salem OR 97301, no later than **5:00 p.m., June 20, 2016**. The appeal must state where the decision failed to conform to the provisions of the historic preservation ordinance (SRC Chapter 230). The appeal must be filed in duplicate with the City of Salem Planning Division. The appeal fee must be paid at the time of filing. If the appeal is untimely and/or lacks the proper fee, the appeal will be rejected. The Salem Historic Landmarks Commission will review the appeal at a public hearing. After the hearing, the Historic Landmarks Commission may amend, rescind, or affirm the action, or refer the matter to staff for additional information.

Vicinity Map

223 Commercial St NE

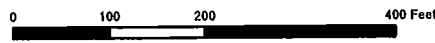


Legend

- Taxlots
- Urban Growth Boundary
- City Limits
- Outside Salem City Limits
- Historic District
- Schools
- Parks



This product is provided as is, without warranty. In no event is the City of Salem liable for damages from the use of this product. This product is subject to license and copyright limitations and further distribution or resale is prohibited.



Historic Alteration Review - Commercial Resource Worksheet

Site Address: 223 Commercial St NE

Resource Status: Contributing
 Non-Contributing

Type of Work: Activity Proposed

Major Minor

Replacement, Alteration, Restoration or Addition of:

Architectural Feature:

- Awning
- Door
- Exterior Trim, Lintel
- Other architectural feature
- Roof/Cornice
- Masonry/Sliding
- Storefront
- Window(s) Number of windows: _____

Landscape Feature:

- Fence
- Streetscape
- Other Site feature (describe) _____

New:

- Addition
- Accessory Structure
- Sign
- Mural
- Accessibility Ramp
- Energy Improvements
- Mechanical Equipment
- Primary Structure

Will the proposed alteration be visible from any public right-of-way? YES NO

Project's Existing Material: _____ Project's New Material: _____

Project Description

Briefly provide an overview of the type of work proposed. Describe how it meets the applicable design criteria in SRC Chapter 230. Please attach any additional information (i.e., product specification sheets) that will help staff and the HLC clearly understand the proposed work:

Mechanical scope to include new rooftop air conditioning units.
Please see attached Roof Plan layout for the proposed unit locations
and accompanying product data/information on the rooftop unit.

Krista K. Lee
Signature of Applicant

5-17-16
Date Submitted/Signed

SALEM-KEIZER EDUCATION FOUNDATION

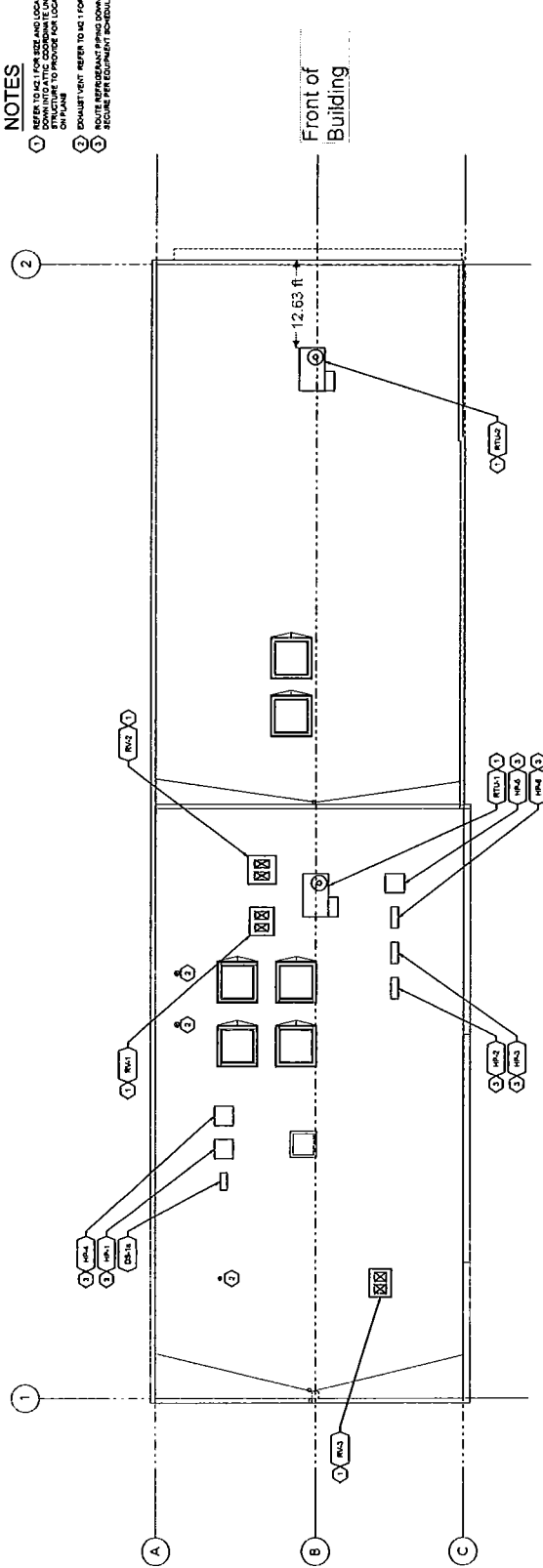
223 Ne Commercial St. Salem, OR 97301

HVAC - ROOF PLAN NEW

REV #	DATE

M2.2

- NOTES**
- REFER TO AC 1 FOR SIZE AND LOCATION OF DUCT DROPS FROM STRUCTURE TO PROVIDE FOR LOCATION AND BEING SHOWN ON PLAN
 - EXHAUST VENT REFER TO AC 1 FOR LOCATION
 - ROUTE REPRESENT PIPING DOWN TO EQUIPMENT
 - SECURE PER EQUIPMENT MANUFACTURER

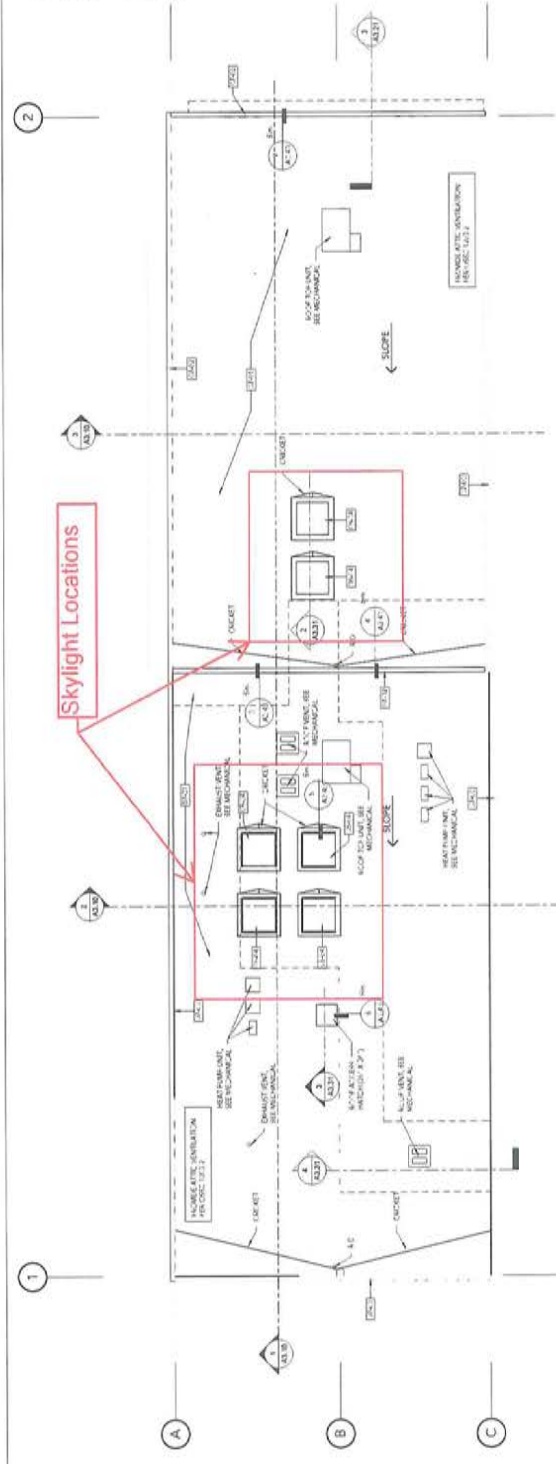


ROOF PLAN GENERAL NOTES

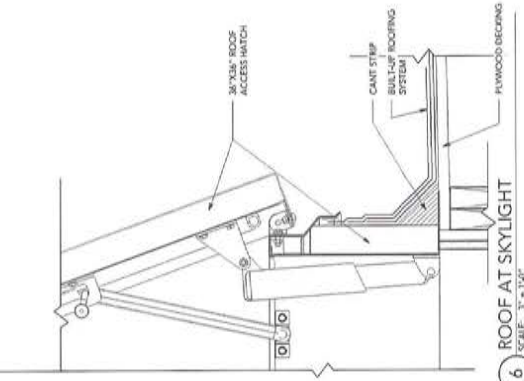
- 1. VERIFY ALL CONDITIONS AND CONDITIONS OF WORK BEFORE BEGINNING WORK.
- 2. VERIFY ALL CONDITIONS AND CONDITIONS OF WORK BEFORE BEGINNING WORK.
- 3. VERIFY ALL CONDITIONS AND CONDITIONS OF WORK BEFORE BEGINNING WORK.
- 4. VERIFY ALL CONDITIONS AND CONDITIONS OF WORK BEFORE BEGINNING WORK.
- 5. VERIFY ALL CONDITIONS AND CONDITIONS OF WORK BEFORE BEGINNING WORK.
- 6. VERIFY ALL CONDITIONS AND CONDITIONS OF WORK BEFORE BEGINNING WORK.

KEYNOTES LEGEND

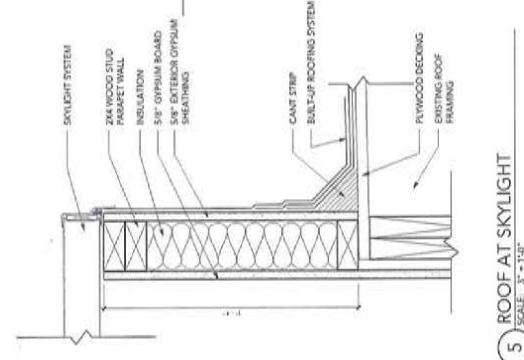
1001	MECHANICAL SYSTEMS, MECHANICAL SYSTEMS
2001	MECHANICAL SYSTEMS, MECHANICAL SYSTEMS
3001	MECHANICAL SYSTEMS, MECHANICAL SYSTEMS
4001	MECHANICAL SYSTEMS, MECHANICAL SYSTEMS
5001	MECHANICAL SYSTEMS, MECHANICAL SYSTEMS
6001	MECHANICAL SYSTEMS, MECHANICAL SYSTEMS



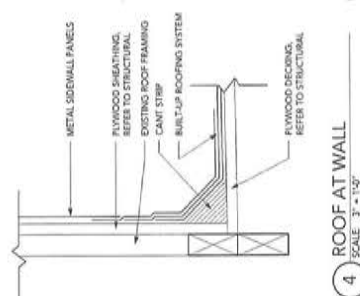
1 ROOF PLAN
SCALE: 1/8" = 1'-0"



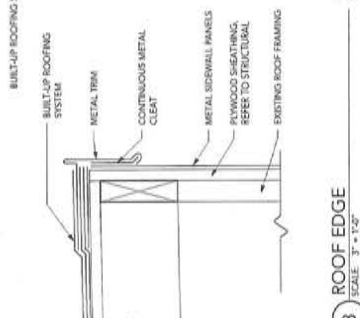
6 ROOF AT SKYLIGHT
SCALE: 3/4" = 1'-0"



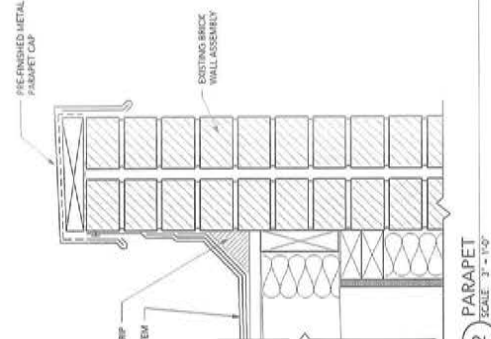
5 ROOF AT SKYLIGHT
SCALE: 3/4" = 1'-0"



4 ROOF AT WALL
SCALE: 3/4" = 1'-0"



3 ROOF EDGE
SCALE: 3/4" = 1'-0"



2 PARAPET
SCALE: 3/4" = 1'-0"

Project	EDUCATION FOUNDATION
Client	SALEM-KEIZER EDUCATION FOUNDATION
Architect	CB Two ARCHITECTS
Contractor	
Engineer	
Interior Designer	
Other	

ROOF PLAN

A2.40



COOK

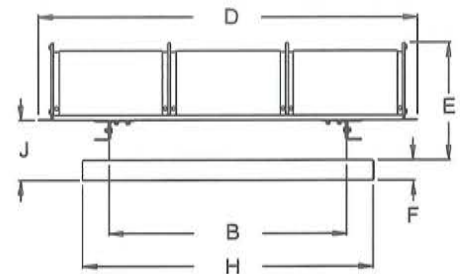
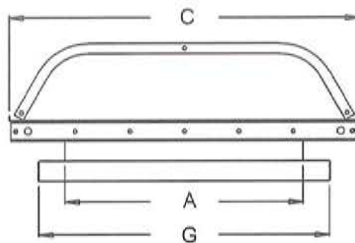
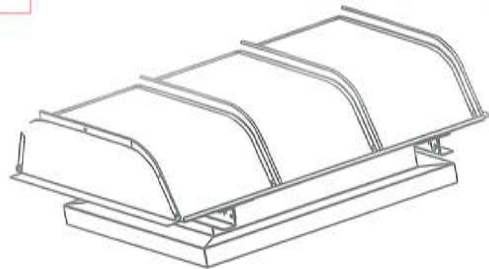
RV 1, 2, 3:
Galvanized/
Aluminum
color

MARK: RV-1
PROJECT: SKEF
DATE: 4/12/2016

GR

Gravity Relief Ventilator

STANDARD CONSTRUCTION FEATURES:
 Heavy gauge aluminum construction -
 Birdscreen - Radius throat - Rain gutter to
 prevent rain infiltration - Welded curb cap
 corners - Integral lifting lugs/tie down
 points - Hinged hood standard on throat
 lengths less than 73" - Five year warranty.



Performance

Qty	Catalog Number	Installation
1	22X30GR	Non-Ducted

Dimensions (inches)

A	22
B	30
C	35
D	51
E	12.61
F	2
G	27.5
H	35.5
J	6

NOTE: Accessories may affect dimensions shown.

Weight(lbs)***	Shipping	174	Unit	77
----------------	----------	-----	------	----

***Includes accessories.

Accessories:

ROOF CURB RCG 26X 34-13.5H



Job Name Salem Kaiser Educational Foundation
 Purchaser Jet Industries
 Submitted to Rod Pye @ Jet Industries
 Unit Designation FC-2, 3, 6 HP-2, 3, 6

Location 223 Commercial St. NE, Salem, OR 97301
 Engineer Jet Industries
 Reference Approval Construction
 Schedule # _____

Specifications

Model	Indoor Unit Model Number	AC030JNHDCH/AA		
	Outdoor Unit Model Number	AC030JXADCH/AA		
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	30,000 / 32,000	
	Capacity Range	Cooling (Btu/h)	9,300 - 35,000	
		Heating (Btu/h)	9,000 - 38,000	
	SEER / EER		19.1 / 11.1	
	COP (nominal heating)		3.53	
	HSPF		10.0	
	AHRI Certification Number		8032089	
Condensate (pints/hour)		7.03		
Power	Voltage	∅ / V / Hz	1 / 208-230 / 60	
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)	
	Operating Current (min. / std. / max.)	Cooling (A)		4.0 / 12.0 / 17.0
		Heating (A)		3.4 / 12.0 / 21.8
	Max. Breaker	Amps		30
Min. Circuit Ampacity (A)			23.2	
Dimensions	W X H X D (inches)	Indoor Unit	47 1/4 X 14 3/16 X 25 9/16	
		Outdoor Unit	37 X 39 11/16 X 12 3/4	
	Weight (lbs.)	Indoor Unit	128	
		Outdoor Unit	154	
	Duct Connections (W X H)	Supply (inches)		45 3/4 X 10 15/16
Return (ID, inches)			45 5/8 X 10 1/4	
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin / Copper Tube	
		FPI	18	
		Pipe Diameter (inches)	1/4	
	Outdoor Unit	Type	Aluminum, flat fin, micro channel	
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	29 / 33 / 37	
	Outdoor Unit dB(A)	Cooling / Heating (high)	50 / 52	
Operating Temperatures (°F)	Outdoor	Cooling	23 ≤ T ≤ 115	
		Heating	-4 ≤ T ≤ 76	
	Indoor	Cooling	61 ≤ T ≤ 90	
		Heating	T ≤ 80	
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"	
		Low side (flare)	5/8"	
	Maximum (ft.)		164	
	Maximum Vertical Separation (ft.)		98	
	Condensate Connection		1" OD, 3/4" ID	
Refrigerant	Type		R410A	
	Control Method		Electronic Expansion Valve	
	Factory Charge	oz.	91.71	
	Charged for		25 feet	
	Additional Refrigerant		0.24 oz/ft over 25 feet	
Compressor	Manufacturer	Samsung		
	Type	Inverter Driven, Twin BLDC, Rotary		
	RLA	Amps	15.1	
Evaporator Fan	Type	BLDC (2) With Sirocco Fan (2)		
	Air Volume	CFM (L/M/H)	760 / 860 / 960	
	Output (W) / FLA (A)		183 W X 2 / 1.9 A X 2	
	Static Pressure	Standard ("WC)		0.12
Min. / Max. ("WC)			0 - 0.8	
Condenser Fan	Motor	BLDC With Axial Type Fan (1)		
	FLA / Watts / CFM (max.)		0.48 A / 125 W / 2,221 CFM	
Optional Accessories	Wired Controller	Simplified	<input type="checkbox"/> MWR-SH00N	
		Simplified Touch Controller	<input type="checkbox"/> MWR-SH10N	
		Premium w/scheduling	<input checked="" type="checkbox"/> MWR-WE10N	
	Wi-Fi Adapter		<input type="checkbox"/> MIM-H03UN	
	Wireless Signal Control	Wireless Signal Receiver	<input type="checkbox"/> MRW-TA	
		Wireless Controller	<input type="checkbox"/> MRK-A10N	
	External Temperature Sensor		<input type="checkbox"/> MR-EH00U	
	Filter Box		<input type="checkbox"/> FB-M48/H3648	
	External Contact Control		<input type="checkbox"/> MIM-B14	
	Central Control Interface Module for Connection to DVM Plus Controls (non-NASA)		<input type="checkbox"/> MIM-N01	
	Wall Bracket (for outdoor unit)		<input type="checkbox"/> CKN-250	
	Wind Baffles	Front	<input type="checkbox"/> WBF-1	
		Back	<input type="checkbox"/> WBB-3	
	Line Sets - insulated and flared, interconnect cables included		<input type="checkbox"/> 25' - ILS-2510	
			<input type="checkbox"/> 50' - ILS-5010	
Safety	Certifications	ETL		
	Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing			



- Horizontal discharge airflow
- Low ambient control built in
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
- Auto-restart after power loss
- The outdoor unit shall have a snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- The indoor and outdoor units shall have a removable EEPROM that stores system programming information, unit name, and other data
- All indoor unit addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
- The indoor unit shall have a built-in condensate pump as standard with a 29" lift (from bottom of unit).
- Pipe connections at the outdoor unit shall be made inside the unit chassis. Refrigerant pipes can exit through the front, side, rear, or bottom sides of the outdoor unit.
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night (automatic or manual activation with dry contact signal).

Construction

The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability
 The indoor unit shall be insulated, galvanized steel.

Heat Exchanger

The indoor unit heat exchanger shall be mechanically bonded fin to copper tube
 The outdoor unit heat exchanger shall be aluminum, flat fin, micro channel

Controls

Control signal shall be a DDC type signal
 Interconnect control wire between outdoor indoor unit shall be 16AWG X 2 shielded
 Wired or wireless controls must be purchased separately
 Connection to optional wired controllers shall be 2 X 16AWG shielded wire
 Controls shall integrate with a BMS system
 The system shall integrate with the Samsung NASA Controls Solution

No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central control options (MIM-D00AN, MIM-B17N, MIM-B18N, MCM-A300N).

Refrigerant System

The refrigerant shall be R410A
 The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary
 Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit
 Soft-start to reduce current demand during compressor start

Warranty

10 years compressor, 10 years parts, 1 year limited labor (conditions apply)

Quietside maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRI.directory.org for current reference numbers.

* Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.
 * Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.



HP 1, 4, 5

25HCE4
Comfort™ 14 Heat Pump
with Puron® Refrigerant
1–1/2 to 5 Nominal Tons



Product Data



Comfort
SERIES

Carrier heat pumps with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 25HCE4 has been designed utilizing Carrier's Puron refrigerant. The environmentally sound refrigerant allows consumers to make a responsible decision in the protection of the earth's ozone layer.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

INDUSTRY LEADING FEATURES / BENEFITS

Efficiency

- 14 SEER / 11.5 - 11.7 EER / 8.2 HSPF
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 69 dBA
- Sound levels as low as 68 dBA with accessory sound blanket

Comfort

- System supports CoR™, Edge® or standard thermostat controls

Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- High pressure switch
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

Durability

WeatherArmor™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard
- Baked-on powder paint

Applications

- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient (down to -20°F / -28.9°C) with accessory kit

Unit Feature Sheet for RTU 2 & #1

Project: ~Untitled1
Prepared By:

04/08/2016
01:12PM



WeatherMaster – 48HC

PACKAGED ROOFTOP GAS HEATING/ELECTRIC COOLING UNITS
3, 4, 5, 6, 7.5, 8.5, 10 and 12.5 TONS



Optional Louvered Hail Guard Shown



WEATHERMASTER SERIES

WeatherMaster (48HC) units are high efficiency, single packaged gas heating, electric cooling units that are pre-wired and charged with Puron® (R-410A) refrigerant. They are factory tested in both heating and cooling modes, and rated in accordance with AHRI Standards 210/240 (04-06 sizes) and 340/360 (07-14 sizes). WeatherMaster units are designed in accordance with UL Standard 1986, and listed by UL or ETL.



- OF -



One of the AISC Certified™ 130 Manufacturers is a manufacturer's participation in the program for verification of structures for residential products. Go to www.aisc.org

Certified to ISO 9001

For a complete list of options and accessories refer to the product data catalog.

STANDARD FEATURES INCLUDE:

- Puron® (R-410A) HFC refrigerant charged
- ASHRAE 90.1 compliant and Energy Star qualified
- Scroll compressors with internal line break and overload protection
- Single-stage cooling capacity control on all 04-07 models
- Two-stage cooling capacity control on 08-14 models
- SEERs up to 16.6 and EERs up to 13.0
- IEERs up to 13.0 with single speed indoor fan motor
- IEERs up to 13.8 with 2-speed VFD indoor fan motor
- TXV metering device on each independent circuit
- 04-06 models use X-13 (6-Speed Torque) Direct Drive Motor standard
- Belt drive fan and pulley combinations - all three phase models
- Exclusive non-corrosive composite condensate pan in accordance with ASHRAE Standard 62, sloping design, side or center drain
- Standard cooling operation to 125°F (52°C) to 35°F (2°C)
- Units use high performance copper tube / aluminum fin condenser and evaporator coils
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Fully insulated cabinet
- Exclusive IGC solid-state control for on-board diagnostics with LED error code designation, burner control logic and energy saving indoor fan motor delay
- Low NOx models that meet California Air Quality Management
- Induced draft gas heat combustion design
- Redundant gas valves with up to two stages of heating
- Low pressure and high pressure switch protected

MAINTENANCE FEATURES:

- Access panels with easy grip handles
- Innovative easy starting, no-strip screws on unit access panels
- Two-inch disposable return air filters and Tool-less filter access
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement
- Exclusive IGC solid-state control for on-board diagnostics with LED error code designation, burner control logic and energy saving indoor fan motor delay

INSTALLATION FEATURES:

- Thru-the-bottom power entry capability
- Single point gas and electric connections
- Full perimeter base rail with built-in rigging adapters and fork slots
- Convertible from vertical to horizontal airflow for side mounting

STANDARD PARTS WARRANTY:

- 10-year heat exchanger – 16-year stainless steel option
- 5-year compressor
- 1-year parts
- Many optional upgrades also available

OPTIONS INCLUDE BUT ARE NOT LIMITED TO:

- PremierLink™ and Multi-Protocol Direct Digital Controls (DDC)
- ComfortLink controls
- Supply and Return Air Smoke Detectors, high static motors
- Louvered condenser coil guards and coil coating options
- Economizer, disconnect and convenience outlet options
- Stainless Steel heat exchanger (standard with Low NOx)
- Hinged access panels
- Humidifier/Dehumidifier system
- Foil faced insulation throughout entire cabinet
- Low ambient cooling operation controls
- HACR circuit breaker

Job Name Salem Kaiser Educational Foundation
 Purchaser Jet Industries
 Submitted to Rod Pye @ Jet Industries
 Unit Designation DS-1a & DS-1b

Location 223 Commercial St. NE Salem, OR 97301
 Engineer Jet Industries
 Reference Approval Construction
 Schedule # _____

Specifications

Model	Indoor Model Number		QS12-VJ220
	Outdoor Model Number		QS12-VP220
Performance*	Nominal Capacity*	Cooling (Btu/h)	3100 - 13000
		Heating (Btu/h)	2400 - 14000
	SEER / EER		20 / 14.2
	HSPF		9.2
	Condensate	Pints/hour	3
Power	Voltage	(ø/V/Hz)	1 / 220 / 60
	Rated Current (amps)	Cooling	4.5
		Heating	5.2
	Max Breaker	Amps	15
	Min. Circuit Ampacity		10 A
Dimensions	W X H X D (Inches)	Indoor Unit	33 1/4 X 10 7/8 X 7
		Outdoor Unit	33.4 X 23.2 X 12.6
	Weight (lbs.)	Indoor Unit	29
		Outdoor Unit	91
	Condensate Connection		1 1/16" OD
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube
		FPI	19
		Pipe Diameter	7.25mm indoor / 3/8" outdoor
Sound Pressure Level (dB)	Indoor Unit	SH/H/ML	44 / 39 / 36 / 33
	Outdoor Unit		52
Operating Temperatures	Cooling	°F	0.4 ≤ T ≤ 109
	Heating	°F	-5 ≤ T ≤ 75
Pipe Connections	Indoor & Outdoor	High side	1/4"
		Low side	3/8"
	Maximum Line Set Length		66 feet
	Maximum Vertical Separation		33 feet
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	46.00
	Charged for		25 feet
	Additional Refrigerant		0.7 oz/ft over 25 feet
Compressor	Type		DC, Inverter Driven, Twin Rotary
	RLA	Amps	6.47
	L.R.A.	Amps	-
Evaporator Fan	Type		Crossflow (1)
	RLA	Amps	0.2
	Air Volume	CFM	335 / 277 / 253 / 218
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	Output	W	30
	RLA	Amps	0.13
Accessories	Condensate pump		ASP-MO-UNIV 110-250
	Wall Bracket		CKN-250
	Line Sets	Insulated and flared, interconnect cable included	25 foot: SLS2506
			50 foot: SLS5006
Safety Certifications		ETL & AHRI 5710082	
Warranty	5 years compressor, 1 year parts, 90 day limited labor		



- Electro-static, washable, main filter as standard
- Low ambient control built in
- The outdoor unit shall supply power to the indoor unit
- Construction
 - The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability
 - The indoor shall have a UL94 V0 chassis with galvanized steel mounting bracket
- Heat Exchanger
 - The heat exchanger shall be mechanically bonded fin to copper tube.
- Controls
 - The unit shall be operated via communication through high voltage.
 - 14AWG X 4 interconnect wire between condenser and evaporator.
 - Evaporator ships with wireless controller as standard.
- Refrigerant System
 - The refrigerant shall be R410A
 - The compressor shall be a hermetically sealed, inverter controlled, Twin BLDC Rotary type.
 - Refrigerant flow shall be controlled by EEV (electronic expansion valve) at outdoor unit.
- Indoor Fan
 - Indoor fan is a single, crossflow type
 - Four speed settings and auto setting

*Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 79°F WB.
 *Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.
 Samsung and Quietside maintains a policy of ongoing development, specifications are subject to change without notice.





223 Commercial Street NE
2015