

## Appendix A: Required Forms

### A1. Proposal Form (Signature Page)

Proposer Name: Tolin Mechanical

Address: 1110 G. Elkton Dr., Colorado Springs, CO 80907

Primary Contact: Ashli Reinke

Email: areinke@tolin.com Phone: (719) 322-6192

Colorado Contractor License No.: PC.0001993, MP.00186824, EC.0003464

By signing below, the proposer certifies that they have examined the site conditions, reviewed this RFP and all addenda, and agree to provide the work described for the prices stated.

Authorized Signature: *Ashli N. Reinke* Date: 05/14/2026

Printed Name and Title: Ashli Reinke, Project Sales Representative

### A2. Addenda Acknowledgement

Addendum No.(s) received and acknowledged (list): #1 & #2

### A3. Subcontractor List

List key subcontractors and roles (roofing, controls, electrical, TAB, crane):

TAB: Chinook, Electrical: Forge, Roofing: Vendetti, Crane: Duffy ,

Insulation: CD Insulators, Engineering: Bridgers & Paxton

### A4. Exceptions and Clarifications Form

List any exceptions to the RFP requirements. If none, state: "No exceptions."

No Exceptions

### A5. Similar Project References

Provide at least three (3) references. Include project name, location, owner contact, scope, and contract value(attachment acceptable):

Please see attached on next page

## EXPERIENCE

Tolin Mechanical is a corporation company owned by Service Logic; Address: 650 S Tryon Street, Suite 1000, Charlotte, NC 28202; FEIN# 20-5277888.

Tolin Mechanical has been in Colorado completing HVAC work for over 75 years. Our Colorado Springs branch, that would complete this scope of work, has over 15 qualified technicians, a dedicated project manager, dedicated project sales representative, operations manager, and general manager. Tolin has successfully completed many projects similar to the one proposed and has the manpower, capability, and knowledge to perform this work. We recently performed roof top replacements for City of Pueblo at (3) different locations, various HVAC projects with St. Thomas More Hospital, and Colorado Springs Utilities.

## REFERENCES

City of Pueblo: Design/Build City of Pueblo Transit RTU Replacements ~ \$184,265.00

Replace of (1) Roof Top Unit that had to be redesigned to meet new building requirements and be completed while building was constantly occupied.

123 Court Street, Pueblo, CO 81003

Darren R. Bustos, Facilities Maintenance Superintendent

(719) 553-2792

[dbustos@pueblo.us](mailto:dbustos@pueblo.us)

City of Fort Collins: Police Services RTU Replacements ~ \$2,102,645.00

2221 S Timberline Rd., Ft. Collins, CO 80525

Replacement of qty. (2) custom roof top units that utilize DX cooling and hydronic hot water.

Dan Martinez, Facilities Maintenance Superintendent

(970) 356-2506

[dmartinez@fcgov.com](mailto:dmartinez@fcgov.com)

Colorado Springs Utilities Las Vegas Plant MAU Replacements ~ \$434,107.00

703 E. Las Vegas Street, Colorado Springs, CO 80903

Design and install qty. (5) new Make Up Air units for various buildings throughout Colorado Springs Utilities Vegas plant.

Dennis Byrne, Facilities Skilled Maintenance

(719) 661-9475

[dbyrne@csu.org](mailto:dbyrne@csu.org)

## 9. Pricing Form

9.1 Pricing Summary: Complete and include the following form in the proposal submission (to be included on the Proposal Form)

Item	Description	Lump Sum Price
Option #1.1 Design	All Design work associated with developing 100% construction documents for turnkey replacement of five (5) RTUs using <b>custom or semi-custom units</b> matching existing footprints as close as practicable. Includes possible modifications to controls integration (Albireo), roofing (Carlisle-certified), electrical, testing, and closeout.	\$ <u>144,850.00</u>
Option #1.2 Construction	All construction phase work required to complete turnkey replacement of five (5) RTUs using custom or <b>semi-custom units</b> . Including Construction Administration services.	\$ <u>2,015,610.00</u>
Option #1 Total	Add Option 1 Design and Construction	\$ <u>2,160,460.00</u>
Option #1 Deduct for no Temporary Heating/Cooling	Deduct amount if the County allows each zone to be without heating and cooling for up to seven (7) days during each unit changeover. New RTUs must be up and running 7 days after the old ones are turned off.	\$ <u>(91,464.00)</u>
Option #2.1 Design	All Design work associated with developing 100% construction documents for Turnkey replacement of five (5) RTUs using <b>standard units</b> that may require more modifications to roof openings and a more involved installation process.	\$ <u>144,850.00</u>
Option #2.2 Construction	All construction phase work required to complete turnkey replacement of five (5) RTUs using <b>standard units with curb adapters</b> . Including Construction Administration services.	\$ <u>1,143,748.00</u>
Option #2 Total	Add Option 2 Design and Construction	\$ <u>1,288,598.00</u>
Option #2 Deduct for no Temporary Heating/Cooling	Deduct amount if the County allows each zone to be without heating and cooling for up to fourteen (14) days during each unit changeover. New RTUs must be up and running 14 days after the old ones are turned off.	\$ <u>(91,464.00)</u>

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**BY AND BETWEEN**

Tolin Mechanical Systems Company  
1110 Elkton Drive, Suite G  
Colorado Springs, CO 80907  
PC.0001993 MP.00186824  
(Hereinafter referred to as "Tolin")

Fremont County  
615 Macon Ave  
Canon City, CO 81212  
(Hereinafter referred to as "Customer")

**PROJECT LOCATION: Fremont Combined Court / Judicial Center  
136 Justice Center Road, Canon City, CO 81212**

**PROJECT DESCRIPTION:** RFP NO: 26-001 ~ HVAC Rooftop Unit Replacements (Design-Build) as per RFP  
Dated 03/30/2026 and per Addendums #1 & #2

**OUR PROPOSAL INCLUDES THE FOLLOWING:**

1. Complete Mechanical, Structural, and Electrical engineering to supply and install qty. (5) new Roof Top Units by Bridgers & Paston
2. Once County approves the 100% contract documents, equipment will be ordered
3. Phase RTU's in order to only affect one area at a time (Unless Deduct Option is Selected)
  - a. Supply and install temporary heating/cooling in area affected by RTU replacement (Unless Deduct Option is Selected)
4. Disconnect, recover refrigerant, and remove existing qty. (5) roof top units and dispose of offsite as per EPA recommendations
5. Supply and install qty. (5) new roof top units
  - a. **Option #1: Newtron Custom Units**
    - i. **RTU #1:** BOD Newtron Model# NTART135
      1. 14,500 CFM
      2. 35 Tons 4 Stage Cooling : R454B Refrigerant
      3. 460/3/ 60 Electrical Connection
      4. Air Cooled Condensing Section
      5. Ultra Low Leak Economizer w/ Exhaust
      6. 2.5 Static
      7. Hot Water Coil – 25%
      8. BACNET MSTP
      9. Factory Start Up
      10. 80" x 252" Dimensions
      11. 9,100 lbs Total Weight
    - ii. **RTU #2:** BOD Newtron Model# NTART235
      1. 13,000 CFM
      2. 35 Tons 4 Stage Cooling : R454B Refrigerant
      3. 460/3/ 60 Electrical Connection
      4. Air Cooled Condensing Section
      5. Ultra Low Leak Economizer w/ Exhaust

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6. 2.3 Static
  7. Hot Water Coil - 25% PG
  8. BACNET MSTP
  9. Factory Start Up
  10. 80" x 233" Dimensions
  11. 9,100 lbs Total Weight
- iii. **RTU #3:** BOD Newtron Model# NTART350
1. 11,000 CFM
  2. 30 Tons 4 Stage Cooling : R454B Refrigerant
  3. 460/3/ 60 Electrical Connection
  4. Air Cooled Condensing Section
  5. Ultra Low Leak Economizer w/ Exhaust
  6. 2.25 Static
  7. Hot Water Coil - 25% PG
  8. BACNET MSTP
  9. Factory Start Up
  10. 83" x 233" Dimensions
  11. 7,600 lbs Total Weight
- iv. **RTU #4:** BOD Newtron Model# NTART450
1. 21,000 CFM
  2. 50 Tons 4 Stage Cooling : R454B Refrigerant
  3. 460/3/ 60 Electrical Connection
  4. Air Cooled Condensing Section
  5. Ultra Low Leak Economizer w/ Exhaust
  6. 2.75 Static
  7. Hot Water Coil - 25% PG
  8. BACNET MSTP
  9. Factory Start Up
  10. 99" x 275" Dimensions
  11. 12,900 lbs Total Weight
- v. **RTU #5:** BOD Newtron Model# NTART550
1. 19,500 CFM
  2. 50 Tons 4 Stage Cooling : R454B Refrigerant
  3. 460/3/ 60 Electrical Connection
  4. Air Cooled Condensing Section
  5. Ultra Low Leak Economizer w/ Exhaust
  6. 2.75 Static
  7. Hot Water Coil - 25% PG
  8. BACNET MSTP
  9. Factory Start Up
  10. 98" x 275" Dimensions
  11. 12,900 lbs Total Weight

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b. Option #2: **Carrier Standard Units with Custom Made Adapter Curbs**

i. **RTU #1:** BOD Carrier Model# 50V3HX34L1G6B8MFM1

1. 14,500 CFM
2. 35 Tons: R454B Refrigerant
3. 460/3/ 60 Electrical Connection
4. Air Cooled Condensing Section
5. Ultra Low Leak Economizer w/ Exhaust
6. 2.5 Static
7. Hot Water Coil – 25%
8. BACNET MSTP
9. Factory Start Up
10. 24'3" x 8'2" Dimensions
11. 6,118 lbs Total Weight

ii. **RTU #2:** BOD Carrier Model# 50V3HX34L1G6B8MFM1

1. 14,500 CFM
2. 35 Tons: R454B Refrigerant
3. 460/3/ 60 Electrical Connection
4. Air Cooled Condensing Section
5. Ultra Low Leak Economizer w/ Exhaust
6. 2.5 Static
7. Hot Water Coil – 25%
8. BACNET MSTP
9. Factory Start Up
10. 24'3" x 8'2" Dimensions
11. 6,118 lbs Total Weight

iii. **RTU #3:** BOD Carrier Model# 50V3HX30A1G6B8MFG1

1. 11,000 CFM
2. 30 Tons: R454B Refrigerant
3. 460/3/ 60 Electrical Connection
4. Air Cooled Condensing Section
5. Ultra Low Leak Economizer w/ Exhaust
6. 2.75 Static
7. Hot Water Coil - 25% PG
8. BACNET MSTP
9. Factory Start Up
10. 21'10" x 8'2" Dimensions
11. 5,618 lbs Total Weight

iv. **RTU #4:** BOD Carrier Model#50V2HX54A2E6B8MFA1

1. 19,500 CFM
2. 50 Tons: R454B Refrigerant
3. 460/3/ 60 Electrical Connection

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4. Air Cooled Condensing Section
5. Ultra Low Leak Economizer w/ Exhaust
6. 2.75 Static
7. Hot Water Coil - 25% PG
8. BACNET MSTP
9. Factory Start Up
10. 35'4" x 8'2" Dimensions
11. 8,175 lbs Total Weight
- v. **RTU #5:** BOD Carrier Model# 50V2HX54A2E6B8MFA1
  1. 19,500 CFM
  2. 50 Tons: R454B Refrigerant
  3. 460/3/ 60 Electrical Connection
  4. Air Cooled Condensing Section
  5. Ultra Low Leak Economizer w/ Exhaust
  6. 2.75 Static
  7. Hot Water Coil - 25% PG
  8. BACNET MSTP
  9. Factory Start Up
  10. 35'4" x 8'2" Dimensions
  11. 8,175 lbs Total Weight
6. Reconnect hydronic hot water piping at nearest connection points with new isolation valves and insulation as needed
7. Utilize licensed electrician to disconnect and reconnect new equipment with upgraded electrical as needed to meet MCA and MOCP of new equipment
8. Reinstall lightning arrest systems on RTU's #2, #4, & #5
9. Remount and reconnect to water, existing hose reel on RTU #3
10. Supply and install new vertical exhaust duct out the top on RTU's #1 & #3 due to clearances if custom units are selected
11. Start up and test to ensure proper operation
12. Complete Test and Balance by certified TAB contractor and provide reports upon completion
13. Crane for RTU placements
14. Mechanical and Electrical permits
15. Supply closeout documentation to include as built, O&M manuals, warranties, and final inspection sign offs
16. 100% Colorado Labor with Prevailing wages Apprenticeship Utilization
17. Retain all records for access to the State Court Administrator's Office for at least three (3) years after Fremont County makes final payment and all other pending matters are closed
18. Provide one (1) year warranty on supplied equipment, materials, and installation craftsmanship

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**OUR PROPOSAL EXCLUDES THE FOLLOWING:**

1. Taxes (Tax Exempt)
2. BAS/Controls Work (As per Addendum #2, County to Complete)
3. Duct cleaning
4. Door undercutting
5. Painting of ductwork or grilles
6. 3<sup>rd</sup> Party Commissioning
7. Fire/Life/Safety
8. Guarantees on equipment availability or ship times
9. Providing labor after our normal business hours 7:30 a.m. to 4:30 p.m. Monday through Friday
10. Providing equipment, materials and labor for work not detailed in this project's scope of work

**\*OPTION #1 OUR TOTAL PRICE FOR THIS SCOPE OF WORK IS ..... \$2,160,460.00**  
**ACCEPT \_\_\_\_\_**

**\*OPTION #1 DEDUCT ALTERNATE ..... (\$91,464.00)**  
**ACCEPT \_\_\_\_\_**

**\*OPTION #2 OUR TOTAL PRICE FOR THIS SCOPE OF WORK IS ..... \$1,288,598.00**  
**ACCEPT \_\_\_\_\_**

**\*OPTION #2 DEDUCT ALTERNATE ..... (\$91,464.00)**  
**ACCEPT \_\_\_\_\_**

**ROOFING NARRATIVE**

Tolin will protect roofing areas that will be affected by the HVAC replacements. Tolin plans to utilize Vendetti Roofing, a Carlisle certified subcontractor, to re-seal existing pockets once electrical work is completed. Option #1, custom units will line up exactly with the existing electrical penetrations and will also require no curb adapter as the custom unit will be fabricated to fit onto the existing opening. Option #2, if standard units do not line up, pockets will be sealed and electrical brought up through the curb. Custom curb adapters will be utilized for option #2, so no part of the roof flashing of existing curbs will be disturbed during replacements.

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**OPTION #1 (CUSTOM UNITS) PROPOSED TIMELINE**

Weeks 1-2: Site assessment and verification with engineering team (2 weeks)  
Weeks 3-6: 90% design preparation (4 weeks)  
Weeks 7-8: County review of 90% set (2 weeks)  
Weeks 9-10: Revisions and 100% design preparation (2 weeks)  
Week 11: County review of 100% set (1 week)  
Week 12: Final approval and release to order equipment (1 week)  
Weeks 13-35: Fabrication of equipment (22 weeks)  
Weeks 36-38: Shipping of Equipment and arrival at crane yard (2 weeks)  
Week 39: Inspection of equipment and approval to release to site (1 week)  
Weeks 40-45: Installation of equipment ~ phased at (1) RTU per week (5 weeks)  
Week 46: Final inspections and closeouts (1 week)  
\*If Deduct is Selected, Tolin would plan to install all (5) RTU's within a one week time period and would drop total time down to 41/42 Weeks Total

**OPTION #2 (STANDARD UNITS) PROPOSED TIMELINE**

Weeks 1-2: Site assessment and verification with engineering team  
Weeks 3-6: 90% design preparation (4 weeks)  
Weeks 7-8: County review of 90% set (2 weeks)  
Weeks 9-10: Revisions and 100% design preparation (2 weeks)  
Week 11: County review of 100% set (1 week)  
Week 12: Final approval and release to order equipment  
Weeks 13-33: Fabrication of equipment (20 weeks)  
Week 34-36: Shipping of Equipment and arrival at crane yard (2 weeks)  
Week 37: Inspection of equipment and approval to release to site (1 week)  
Week 38-43: Installation of equipment ~ phased at (1) RTU per week (5 weeks)  
Week 44 : Final inspections and closeouts (1 week)  
\*If Deduct is Selected, Tolin would plan to install all (5) RTU's within a one week time period and would drop total time down to 39/40 Weeks Total

**DESIGN-BUILD TEAM**

Tolin plans to utilize Bridgers & Paxton Engineering for the Mechanical, Structural, and Electrical engineering on the proposed scope of work. Bridgers & Paxton has been a licensed/certified MEP in the State of Colorado for over 75 years. Tolin anticipates there will be no structural engineering required as the custom units will match the existing weights and the standard units will be less in weight.

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**ELECTRICAL VERIFICATION APPROACH**

Tolin plans to utilize Forge Electrical, a licensed electrical subcontractor in the state of Colorado. The custom units in Option #1 will be fabricated to match the existing equipment electrical connections, so there will be no upgrade to existing electrical feeds required. The standard units in Option #2 will utilize less amperage, so a new breaker and all other upgrades needed will be installed.



# Cover Sheet

Submitted by: Philip Brown

Fremont County

**Project Name: Fremont County**

**Tag Name: RTU 1-2**

**Date: 5/14/2026**



# Unit Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU 1-2

Submitted by: Philip Brown

**Tag Name: RTU 1-2**



### Shipping Dimensions

Unit Length	ft and in	24' 3"
Unit Width	ft and in	8' 2"
Unit Height	ft and in	6' 6"
Unit Operating Weight	lb	6068
Unit Shipping Weight	lb	6118

\*\*\*As-built weight tolerance is +/- 5%. See certified drawings unit dimensions.  
\*\*Weights and dimensions do not include accessories, or special order options.

### Outdoor Air

OA Intake	Ultra-Low Leak Economizer
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### Control Configuration

Control System	Carrier SmartVu
Control Interface	7" Touchscreen
Network Communication	CCN, BACnet MS/TP, BACnet IP

### Unit Parameters

Unit Size		034 (35 Tons)
Unit Voltage	V-Ph-Hz	460-3-60
Supply/Return Configuration		Vertical / Vertical
Heating Capacity		VAV
Heat Option		Hot Water
Heat Type		Modulating Hot Water Heat, Field Provided Valve and Actuator
Chassis Type		Hot Water Coil
Variable Speed Compressor Capacity		Standard
Indoor Fan Motor		STD
Unit Efficiency		Medium Static
		High

### Condenser and Evaporator Coil

Cond. Coil Fin Coating	MCHX Cond, Al/Cu Evap
------------------------	-----------------------

### Pre-Evaporator and Outdoor Air Filters

Pre-Evaporator Filter Type	2" MERV 8
Pre-Evaporator Filter (Quantity...Size)	12...20" x 20" x 2"
Outdoor Air Mesh Filter (Quantity...Size)	8...16" x 25" x 1"

### Factory Installed Options

Application Type	Variable Air Volume
High Static Return Fan and Modulating Exhaust Damper with BP Control	Selected
Condensate Overflow Switch	Selected
Hail Guard	Selected
Plenum Section	Selected
Phase Monitor	Selected
Return Air Smoke Detector	Selected
Terminal Block	Selected
Pre-Filter Status Switch, Access Door Retainer	Selected
Stainless Steel Drain Pan	Selected
65kA High SCCR, Short Circuit Current Rating	Selected
Low Ambient Cooling	Selected
Low Sound	Selected



# Unit Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU 1-2

Submitted by: Philip Brown

## Ordering Information

Part Number	Description	Quantity
50V3HX34L1G6B8MFM1	Rooftop Unit	1
	Base Unit	
	Variable Air Volume	
	Hot Water	
	Condensate Overflow Switch	
	Hail Guard	
	Plenum Section	
	Phase Monitor	
	Pre-Filter Status Switch, Access Door Retainer	
	Return Air Smoke Detector	
	65kA High SCCR, Short Circuit Current Rating	
	Ultra-Low Leak Economizer	
	2" MERV 8	
	Stainless Steel Drain Pan	
	High Static Return Fan and Modulating Exhaust Damper with BP Control	



# Unit Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU 1-2

Submitted by: Philip Brown

## Warranty Information

**Warranty**

First year - Parts only (standard)

NOTES:

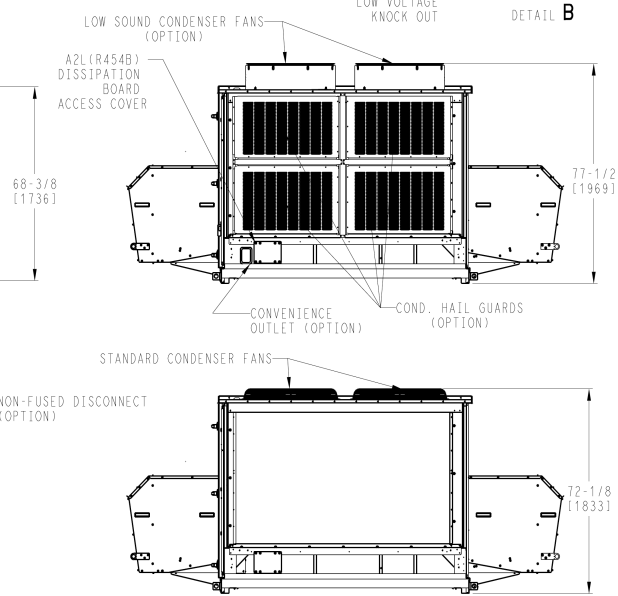
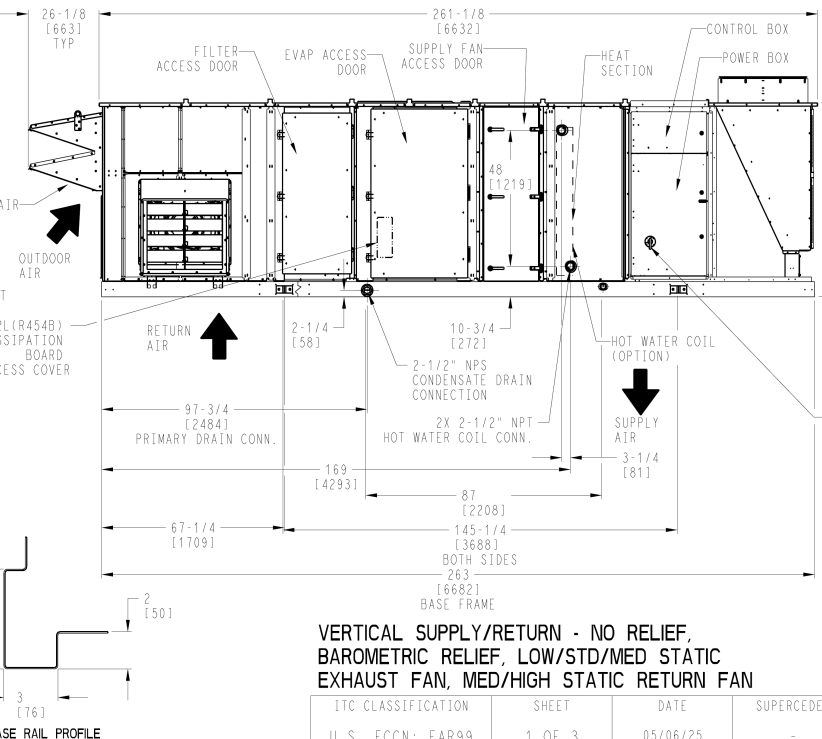
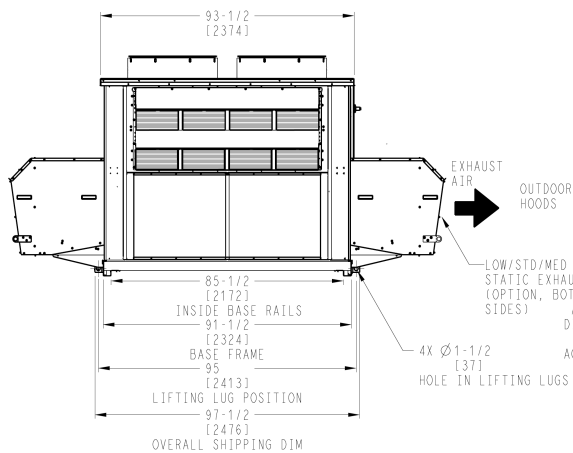
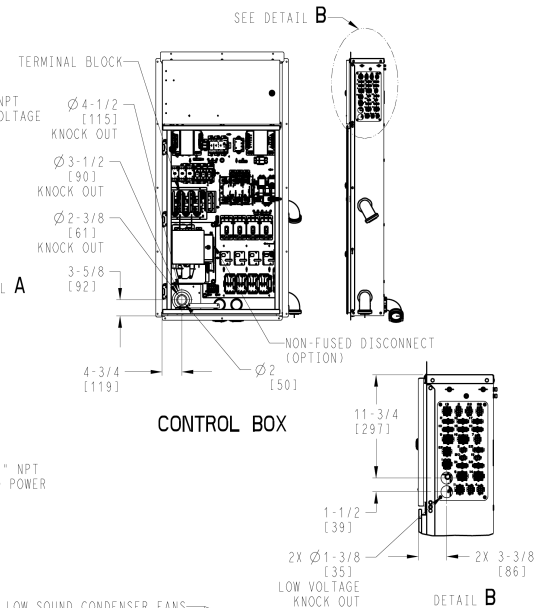
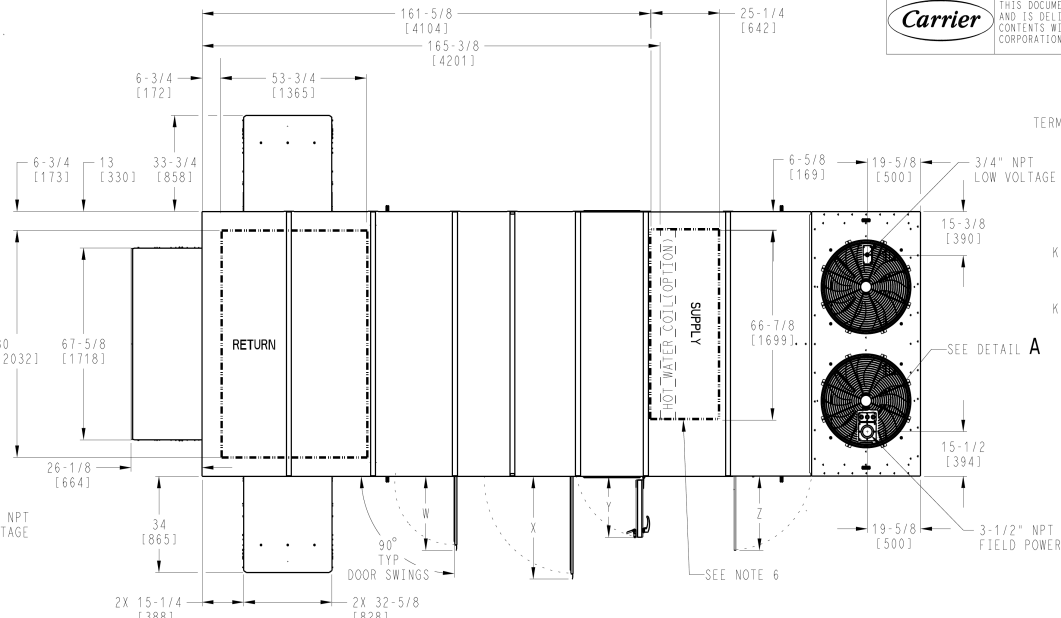
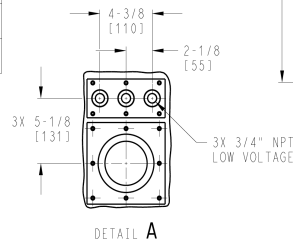
1. DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. UNIT CLEARANCES (FROM EDGE OF UNIT)  
TOP - DO NOT RESTRICT CONDENSER FANS  
CONDENSER END - 6'-0"  
SIDES - 6'-0"  
ECONOMIZER END - 6'-0"
3. REFER TO SUBMITTAL OR PRODUCT DATA FOR UNIT WEIGHTS.
4. DUCTWORK CANNOT ATTACH TO UNIT BASEPAN, DUCTWORK MUST ATTACH TO ROOF CURB OR UNIT SUPPORT STRUCTURE.
5. OUTDOOR AIR HOODS SHIP AS SHOWN. RELIEF HOODS SHIP FLIPPED INSIDE UNIT. EXHAUST FAN HOODS SHIP RETRACTED INSIDE UNIT. RETURN FAN HOODS SHIP FOLDED IN.
6. OPTIONAL HOT WATER COIL SHOWN. NO HEAT OR OPTIONAL ELECTRIC HEAT NOT SHOWN.



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DOOR WIDTH	
W	26-1/8 [664]
X	36-1/8 [918]
Y	21-1/2 [545]
Z	26-1/8 [664]



VERTICAL SUPPLY/RETURN - NO RELIEF,  
BAROMETRIC RELIEF, LOW/STD/MED STATIC  
EXHAUST FAN, MED/HIGH STATIC RETURN FAN

TIC CLASSIFICATION	SHEET	DATE	SUPERCEDES	50V STANDARD CHASSIS + PLENUM SIZE 28-34	48VV005603	REV B
U.S. ECCN: EAR99	1 OF 3	05/06/25	-			



# Performance Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU 1-2

Submitted by: Philip Brown

## Project Name: Fremont County

Tag Name: RTU 1-2

Shipping Dimensions		
Unit Length	ft and in	24' 3"
Unit Width	ft and in	8' 2"
Unit Height	ft and in	6' 6"
Unit Operating Weight	lb	6068
Unit Shipping Weight	lb	6118

\*\*\*As-built weight tolerance is +/- 5%. See certified drawings unit dimensions.  
\*\*Weights and dimensions do not include accessories, or special order options.

Performance Information	
Part Number	50V3HX34L1G6B8MFM1
Unit Refrigerant	R454B
EER	10
IEER	18.4
Heat Type	Hot Water Coil
Supply/Return	Vertical / Vertical
Application Type	Variable Air Volume
Voltage	460-3-60
Cooling Airflow	CFM 13500.0
Altitude	ft 5331
Condenser Entering Air Temperature	F 95.0
Evaporator Entering Air Temperature Dry Bulb	F 80.0
Evaporator Entering Air Temperature Wet Bulb	F 62.0
Evaporator Entering Air Enthalpy	BTU/lb 30.53
Leaving Air Temperature Dry Bulb	°F 52.7
Leaving Air Temperature Wet Bulb	°F 52.7
Leaving Air Enthalpy	BTU/lb 23.80
Gross Cooling Capacity	MBH 328.49
Gross Sensible Cooling Capacity	MBH 327.3
Compressor Power	kW 36.35
Coil Bypass Factor	0.122
Refrigerant Charge, Circuit A	34.6
Refrigerant Charge, Circuit B	0

Hot Water Heating Data		
Heating Airflow	CFM	13500.0
Heating Entering Air Temperature	F	55.0
Leaving Air Temperature	°F	82.9
Air Temperature Rise	°F	27.9
Heating Capacity	MBH	406.8
Fluid Type	25% Propylene Glycol	
Entering Fluid Temperature	F	180.0
Leaving Fluid Temperature	°F	139.3
Fluid Temperature Drop	°F	40.7
Fluid GPM	gpm	20.0
Fluid Pressure Drop (Does not include Header PD)	ft wg	0.68

Electrical Data	
Voltage Range	414 - 506
Power Supply MCA	121
Power Supply MOCP (Fuse or HACR)	150
Minimum Non-Fused Disconnect Amperage	131
Unit Capacity	STD
SCCR Rating	65kA
Control Load	2.4
Compressor #1 QTY	1
Compressor #1 RLA/*MRC*	*30.1*
Compressor #2 QTY	1
Compressor #2 RLA	24.7
Compressor #2 LRA	197
Outdoor Fan Drive	LOW
Outdoor Fan Details (Qty./*MOC* (ea))	2 / *2.8*
Indoor Fan Motor Type	MED
IFM Details (Qty./HP(ea))*MOC*(ea)	3 / 5.9 / *6.8*
Exhaust/Return Fan	High RF
Exhaust/Return Fan Details (Qty/HP(ea))*MOC*(ea)	3 / 9.7 / *10.1*
Electrical Convenience Outlet	None

**Note: Field provided J type fuses are required for high SCCR rating**

Supply Fan Information		
Supply Airflow	CFM	13500.0
Duct Static Pressure	in wg	2.00
Hot Water Coil Loss	in wg	0.28
Clean Filter Loss	in wg	0.14
Economizer Loss	in wg	0.19
Total External Static Pressure	in wg	2.76
Supply Fan Speed	RPM	2408
Supply Fan Power	BHP	13.16

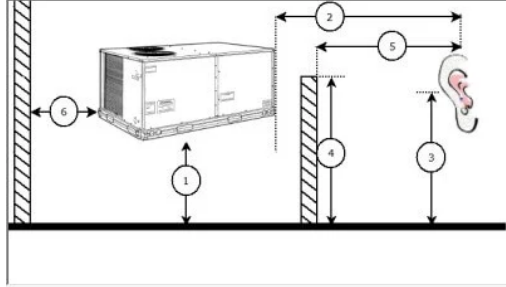
Return Fan Information		
Return Fan Airflow	CFM	13500.0
Duct Static Pressure	in wg	0.50
Total External Static	in wg	0.50
Return Fan Speed	RPM	1293
Return Fan Power	BHP	3.09

Submitted by: Philip Brown

### Acoustic Information

Frequencies Hz	63	125	250	500	1000	2000	4000	8000
Outdoor Lw	58.38	68.4	77.09	84.47	84.86	83.28	88.98	75.23

Discharge/ Inlet Duct Sound Power test data rated in accordance with the AHRI 260 Standard.



### Advanced Acoustics Parameters

Unit height above ground	ft	30.0
Horizontal distance from unit to receiver	ft	50.0
Receiver height above ground	ft	5.7

### Detailed Acoustic Information

Octave Band Center Freq.	Hz	63	125	250	500	1000	2000	4000	8000	Overall
A	Lw	58.38	68.40	77.09	84.47	84.86	83.28	88.98	75.23	92.26
B	LwA	32.18	52.30	68.49	81.27	84.86	84.48	89.98	74.13	92.43
C	Lp	26.90	36.92	45.61	52.99	53.38	51.80	57.50	43.75	60.78
D	LpA	0.7006	20.82	37.01	49.79	53.38	53.00	58.50	42.65	60.95

**Legend**

- A - Sound Power Levels at Unit's Acoustic Center
- B - A-Weighted Sound Power Levels at Unit's Acoustic Center
- C - Sound Pressure Levels at Specific Distance from Unit
- D - A-Weighted Sound Pressure Levels at Specific Distance from Unit



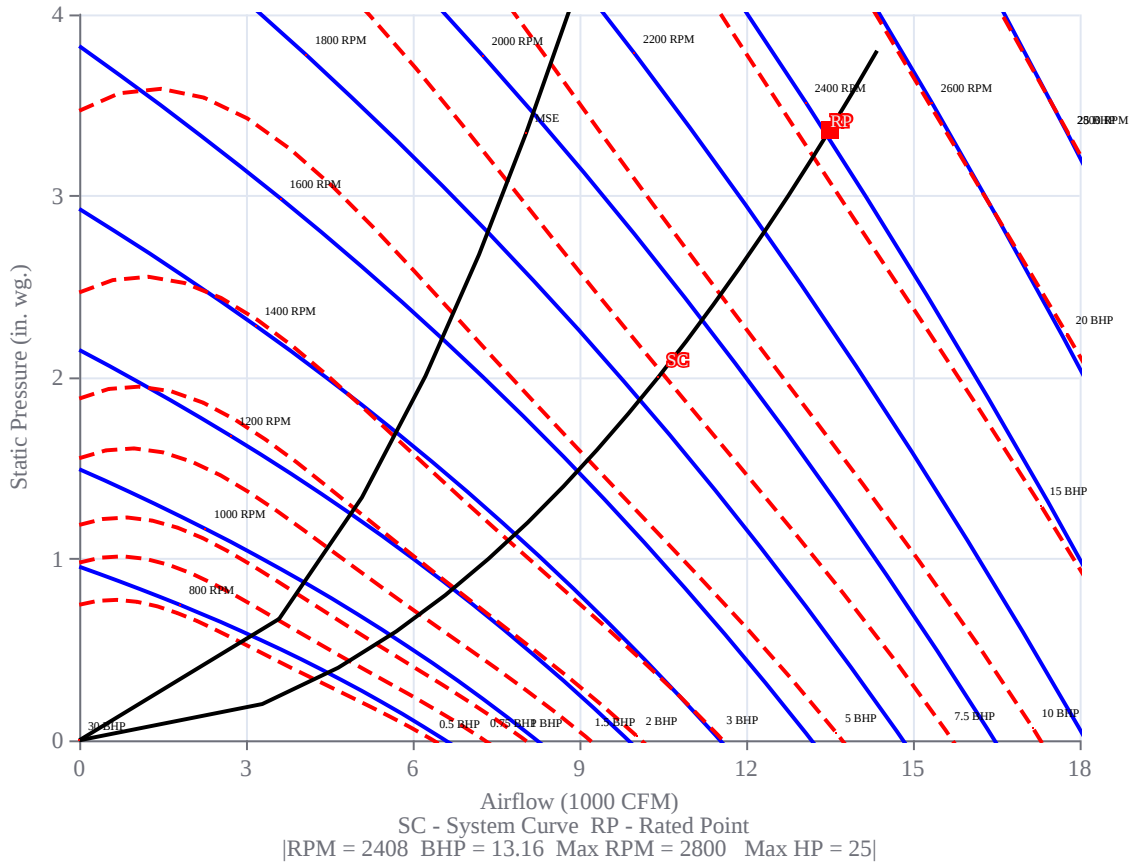
# Performance Report

Project Name:  
Fremont County

Tag Name:  
RTU 1-2

Submitted by: Philip Brown

## Supply System Curve





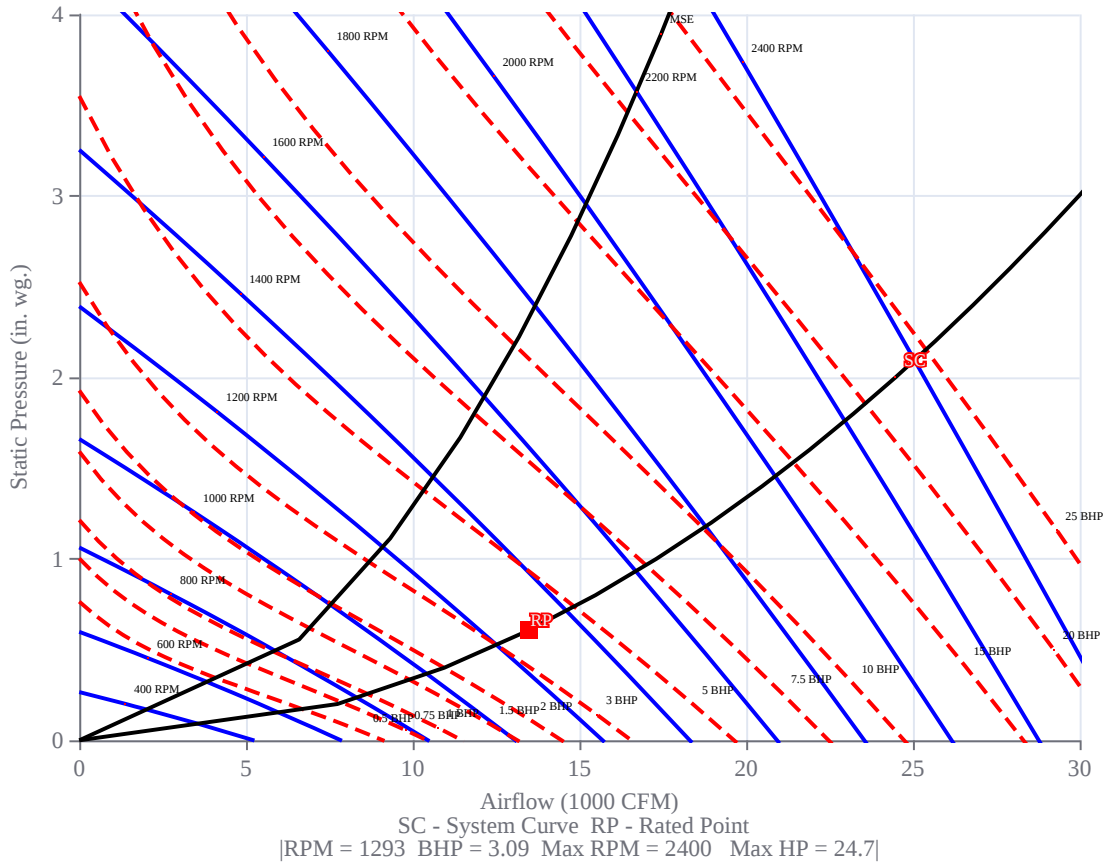
# Performance Report

Project Name:  
Fremont County

Submitted by: Philip Brown

Tag Name:  
RTU 1-2

## Return Fan System Curve





## Cover Sheet

Submitted by: Philip Brown

Fremont County

**Project Name: Fremont County**

**Tag Name: RTU-3**

**Date: 5/14/2026**



# Unit Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU-3

Submitted by: Philip Brown

**Tag Name: RTU-3**



### Shipping Dimensions

Unit Length	ft and in	21' 10"
Unit Width	ft and in	8' 2"
Unit Height	ft and in	6' 6"
Unit Operating Weight	lb	5568
Unit Shipping Weight	lb	5618

\*\*\*As-built weight tolerance is +/- 5%. See certified drawings unit dimensions.  
\*\*Weights and dimensions do not include accessories, or special order options.

### Outdoor Air

OA Intake	Ultra-Low Leak Economizer
-----------	---------------------------

### Control Configuration

Control System	Carrier SmartVu
Control Interface	7" Touchscreen
Network Communication	CCN, BACnet MS/TP, BACnet IP

### Unit Parameters

Unit Size		030 (30 Tons)
Unit Voltage	V-Ph-Hz	460-3-60
Supply/Return Configuration		Vertical / Vertical
Heating Capacity		VAV
Heat Option		Hot Water
Heat Type		Modulating Hot Water Heat, Field Provided Valve and Actuator
Chassis Type		Hot Water Coil
Variable Speed Compressor Capacity		Standard
Indoor Fan Motor		STD
Unit Efficiency		Medium Static
		High

### Condenser and Evaporator Coil

Cond. Coil Fin Coating	MCHX Cond, Al/Cu Evap
------------------------	-----------------------

### Pre-Evaporator and Outdoor Air Filters

Pre-Evaporator Filter Type	2" MERV 8
Pre-Evaporator Filter (Quantity...Size)	12...20" x 20" x 2"
Outdoor Air Mesh Filter (Quantity...Size)	8...16" x 25" x 1"

### Factory Installed Options

Application Type	Variable Air Volume
High Static Return Fan and Modulating Exhaust Damper with BP Control	Selected
Condensate Overflow Switch	Selected
Hail Guard	Selected
Phase Monitor	Selected
Return Air Smoke Detector	Selected
Terminal Block	Selected
Stainless Steel Drain Pan	Selected
65kA High SCCR, Short Circuit Current Rating	Selected
Low Ambient Cooling	Selected
Low Sound	Selected



# Unit Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU-3

Submitted by: Philip Brown

## Ordering Information

Part Number	Description	Quantity
50V3HX30A1G6B8MFG1	Rooftop Unit	1
	Base Unit	
	Variable Air Volume	
	Hot Water	
	Condensate Overflow Switch	
	Hail Guard	
	Phase Monitor	
	Return Air Smoke Detector	
	65kA High SCCR, Short Circuit Current Rating	
	Ultra-Low Leak Economizer	
	2" MERV 8	
	Stainless Steel Drain Pan	
	Low Sound Package	
	High Static Return Fan and Modulating Exhaust Damper with BP Control	



# Unit Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU-3

Submitted by: Philip Brown

## Warranty Information

**Warranty**

First year - Parts only (standard)

NOTE:

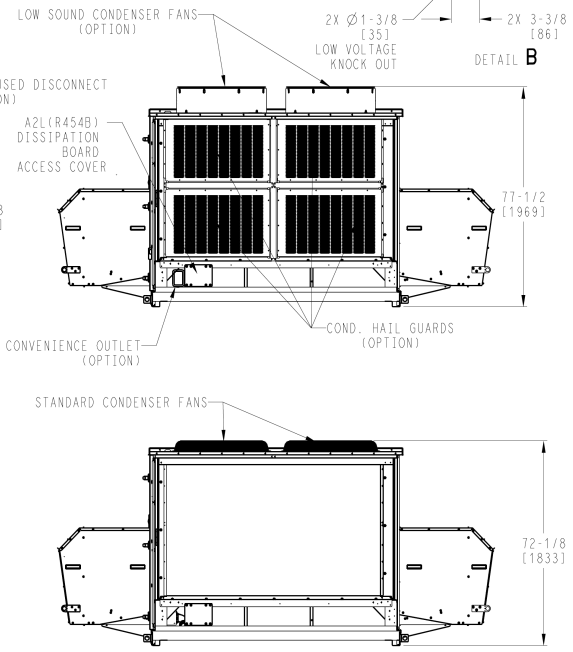
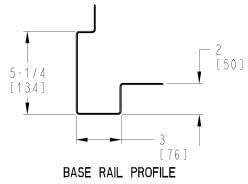
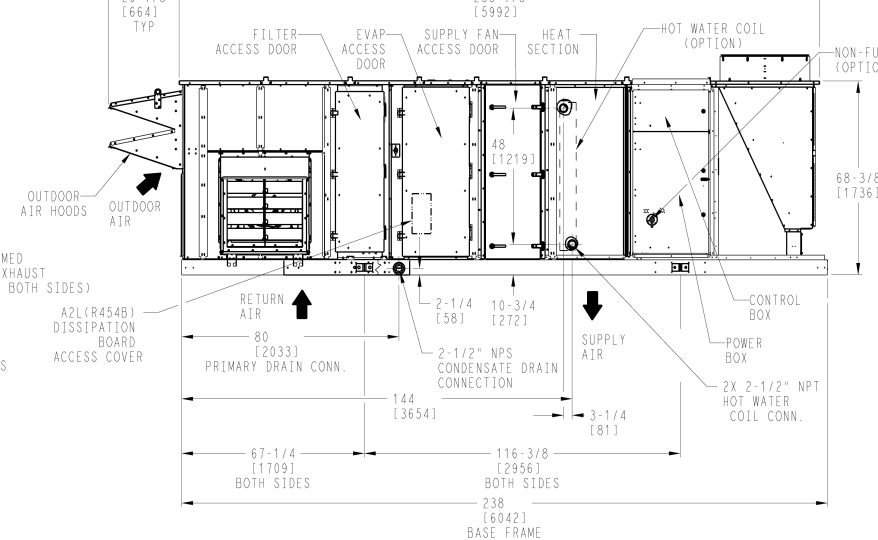
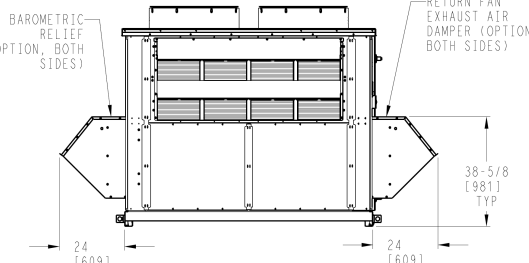
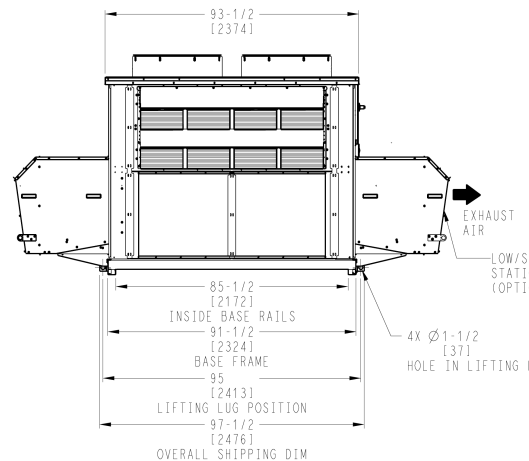
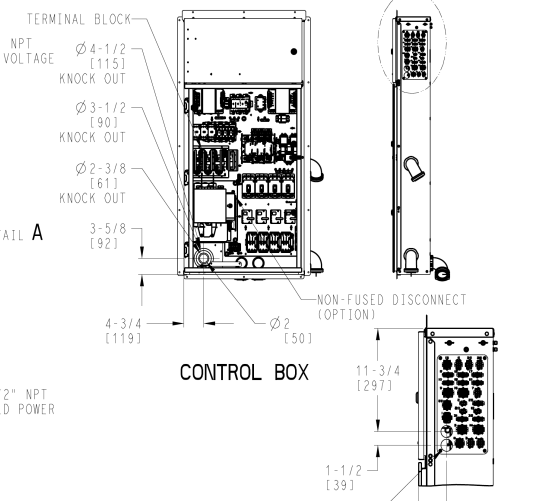
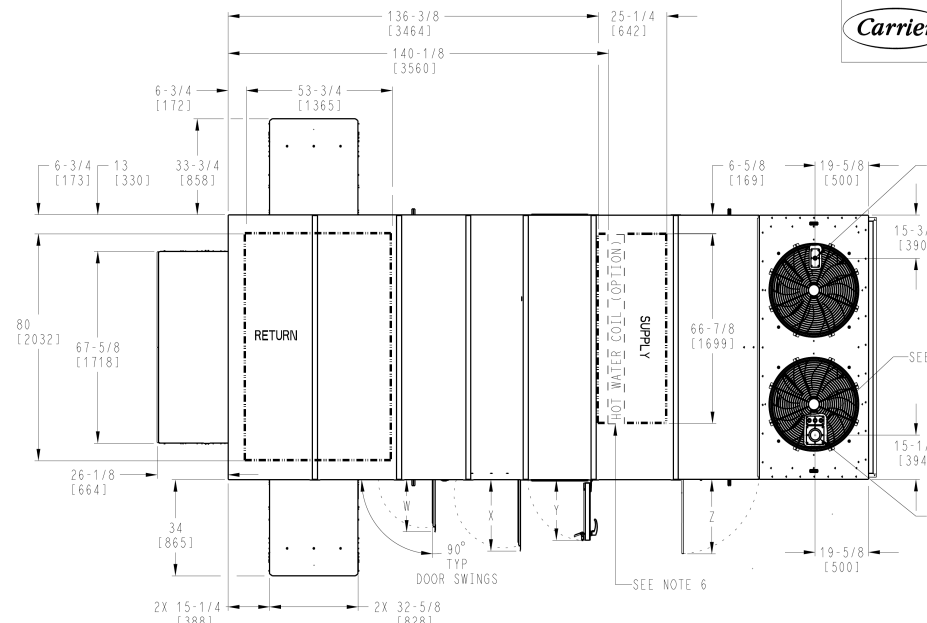
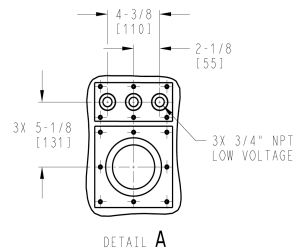
1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. UNIT CLEARANCES (FROM EDGE OF UNIT)  
TOP - DO NOT RESTRICT CONDENSER FANS  
CONDENSER END - 6'-0"  
SIDES - 6'-0"  
ECONOMIZER END - 6'-0"
3. REFER TO SUBMITTAL OR PRODUCT DATA FOR UNIT WEIGHTS.
4. DUCTWORK CANNOT ATTACH TO UNIT BASEPAN.  
DUCTWORK MUST ATTACH TO ROOF CURB OR UNIT SUPPORT STRUCTURE.
5. OUTDOOR AIR HOODS SHIP AS SHOWN. RELIEF HOODS SHIP FLIPPED INSIDE UNIT. EXHAUST FAN HOODS SHIP RETRACTED IN UNIT. RETURN FAN HOODS SHIP FOLDED IN.
6. OPTIONAL HOT WATER COIL SHOWN. NO HEAT OR OPTIONAL. ELECTRIC HEAT NOT SHOWN.



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DOOR WIDTH	
W	26-1/8 [665]
X	25-3/8 [643]
Y	21-1/4 [539]
Z	26-1/8 [664]



**VERTICAL SUPPLY/RETURN - NO RELIEF, BAROMETRIC RELIEF, LOW/STD/MED STATIC EXHAUST FAN, MED/HIGH STATIC RETURN FAN**

TIC CLASSIFICATION	SHEET	DATE	SUPERCEDES	50V STANDARD CHASSIS SIZE 28-34	48VV005246	REV B
U.S. ECCN:EAR99	1 OF 3	05/06/25	-			



# Performance Report

Project Name:  
Fremont County

Tag Name:  
RTU-3

Submitted by: Philip Brown

## Project Name: Fremont County

Tag Name: RTU-3

Shipping Dimensions		
Unit Length	ft and in	21' 10"
Unit Width	ft and in	8' 2"
Unit Height	ft and in	6' 6"
Unit Operating Weight	lb	5568
Unit Shipping Weight	lb	5618

\*\*\*As-built weight tolerance is +/- 5%. See certified drawings unit dimensions.  
\*\*Weights and dimensions do not include accessories, or special order options.

Performance Information	
Part Number	50V3HX30A1G6B8MFG1
Unit Refrigerant	R454B
EER	10.5
IEER	19.1
Heat Type	Hot Water Coil
Supply/Return	Vertical / Vertical
Application Type	Variable Air Volume
Voltage	460-3-60
Cooling Airflow	CFM 11000.0
Altitude	ft 5331
Condenser Entering Air Temperature	F 95.0
Evaporator Entering Air Temperature Dry Bulb	F 80.0
Evaporator Entering Air Temperature Wet Bulb	F 62.0
Evaporator Entering Air Enthalpy	BTU/lb 30.53
Leaving Air Temperature Dry Bulb	°F 51.3
Leaving Air Temperature Wet Bulb	°F 51.3
Leaving Air Enthalpy	BTU/lb 22.92
Gross Cooling Capacity	MBH 294.83
Gross Sensible Cooling Capacity	MBH 279.9
Compressor Power	kW 31.81
Coil Bypass Factor	0.123
Refrigerant Charge, Circuit A	32.8
Refrigerant Charge, Circuit B	0

Hot Water Heating Data		
Heating Airflow	CFM	11000.0
Heating Entering Air Temperature	F	70.0
Leaving Air Temperature	°F	103.0
Air Temperature Rise	°F	33.0
Heating Capacity	MBH	391.5
Fluid Type	50% Propylene Glycol	
Entering Fluid Temperature	F	180.0
Leaving Fluid Temperature	°F	166.9
Fluid Temperature Drop	°F	13.1
Fluid GPM	gpm	60.0
Fluid Pressure Drop (Does not include Header PD)	ft wg	7.18

Electrical Data	
Voltage Range	414 - 506
Power Supply MCA	112
Power Supply MOCP (Fuse or HACR)	125
Minimum Non-Fused Disconnect Amperage	121
Unit Capacity	STD
SCCR Rating	65kA
Control Load	2.4
Compressor #1 QTY	1
Compressor #1 RLA/*MRC*	*27.6*
Compressor #2 QTY	1
Compressor #2 RLA	19.2
Compressor #2 LRA	147
Outdoor Fan Drive	LOW
Outdoor Fan Details (Qty./*MOC* (ea))	2 / *2.8*
Indoor Fan Motor Type	MED
IFM Details (Qty./HP(ea))*MOC*(ea)	3 / 5.9 / *6.8*
Exhaust/Return Fan	High RF
Exhaust/Return Fan Details (Qty/HP(ea))*MOC*(ea)	3 / 9.7 / *10.1*
Electrical Convenience Outlet	None

Note: Field provided J type fuses are required for high SCCR rating

Supply Fan Information		
Supply Airflow	CFM	11000.0
Duct Static Pressure	in wg	2.30
Hot Water Coil Loss	in wg	0.20
Clean Filter Loss	in wg	0.11
Economizer Loss	in wg	0.14
Total External Static Pressure	in wg	2.86
Supply Fan Speed	RPM	2220
Supply Fan Power	BHP	10.25

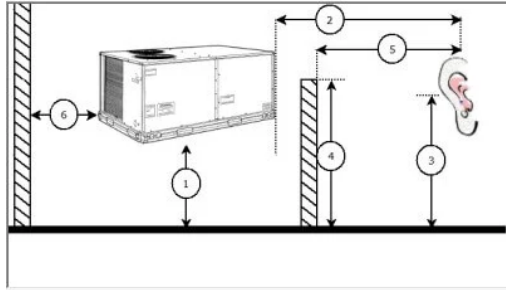
Return Fan Information		
Return Fan Airflow	CFM	11000.0
Duct Static Pressure	in wg	0.50
Total External Static	in wg	0.50
Return Fan Speed	RPM	1139
Return Fan Power	BHP	2.20

Submitted by: Philip Brown

### Acoustic Information

Frequencies Hz	63	125	250	500	1000	2000	4000	8000
Outdoor Lw	58.09	68.4	76.95	84.45	85.14	83.22	88.69	75.24

Discharge/ Inlet Duct Sound Power test data rated in accordance with the AHRI 260 Standard.



### Advanced Acoustics Parameters

Unit height above ground	ft	30.0
Horizontal distance from unit to receiver	ft	50.0
Receiver height above ground	ft	5.7

### Detailed Acoustic Information

Octave Band Center Freq.	Hz	63	125	250	500	1000	2000	4000	8000	Overall
A	Lw	58.09	68.40	76.95	84.45	85.14	83.22	88.69	75.24	92.16
B	LwA	31.89	52.30	68.35	81.25	85.14	84.42	89.69	74.14	92.31
C	Lp	26.61	36.92	45.47	52.97	53.66	51.74	57.21	43.76	60.68
D	LpA	0.4106	20.82	36.87	49.77	53.66	52.94	58.21	42.66	60.83

**Legend**

- A - Sound Power Levels at Unit's Acoustic Center
- B - A-Weighted Sound Power Levels at Unit's Acoustic Center
- C - Sound Pressure Levels at Specific Distance from Unit
- D - A-Weighted Sound Pressure Levels at Specific Distance from Unit

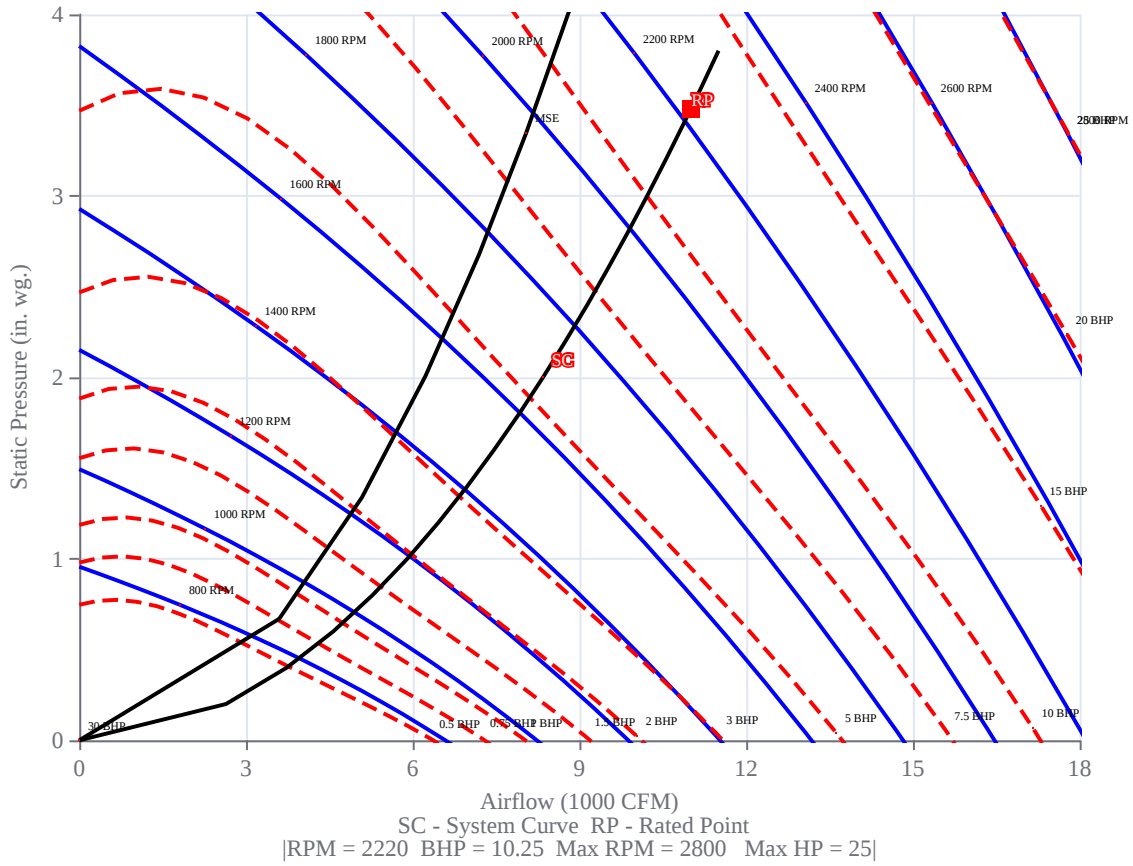


# Performance Report

Project Name:  
Fremont County  
Tag Name:  
RTU-3

Submitted by: Philip Brown

## Supply System Curve





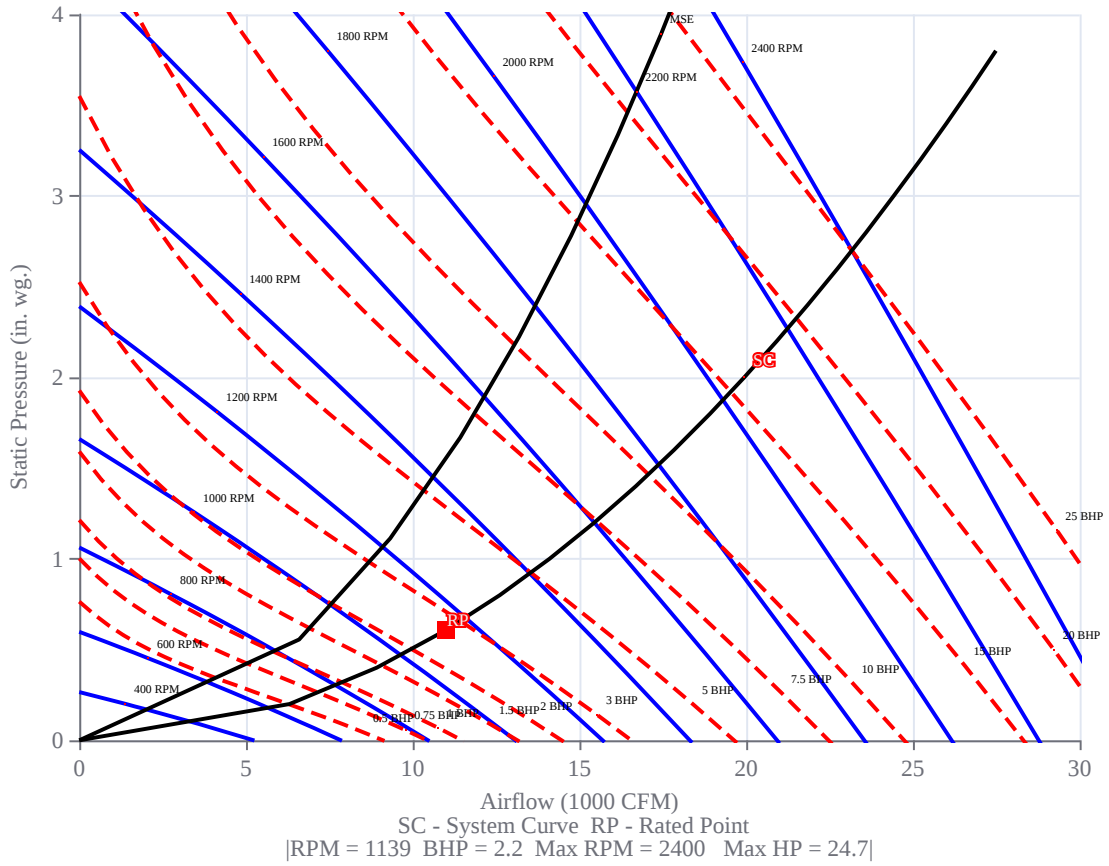
# Performance Report

Project Name:  
Fremont County

Submitted by: Philip Brown

Tag Name:  
RTU-3

## Return Fan System Curve





## Cover Sheet

Submitted by: Philip Brown

Fremont County

**Project Name: Fremont County**

**Tag Name: RTU 4-5**

**Date: 5/14/2026**



# Unit Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU 4-5

Submitted by: Philip Brown

**Tag Name: RTU 4-5**



### Shipping Dimensions

Unit Length	ft and in	35' 4"
Unit Width	ft and in	8' 2"
Unit Height	ft and in	7' 6"
Unit Operating Weight	lb	8125
Unit Shipping Weight	lb	8175

\*\*\*As-built weight tolerance is +/- 5%. See certified drawings unit dimensions.  
\*\*Weights and dimensions do not include accessories, or special order options.

### Outdoor Air

OA Intake	Ultra-Low Leak Economizer
-----------	---------------------------

### Control Configuration

Control System	Carrier SmartVu
Control Interface	7" Touchscreen
Network Communication	CCN, BACnet MS/TP, BACnet IP

### Unit Parameters

Unit Size		054 (55 Tons)
Unit Voltage	V-Ph-Hz	460-3-60
Supply/Return Configuration		Vertical / Vertical SAV
Heating Capacity		Hot Water
Heat Option		Modulating Hot Water Heat, Field Provided Valve and Actuator
Heat Type		Hot Water Coil
Chassis Type		Standard
Variable Speed Compressor Capacity		STD
Indoor Fan Motor		High Static
Unit Efficiency		High

### Condenser and Evaporator Coil

Cond. Coil Fin Coating	MCHX Cond, Al/Cu Evap
------------------------	-----------------------

### Pre-Evaporator and Outdoor Air Filters

Pre-Evaporator Filter Type	2" MERV 8
Pre-Evaporator Filter (Quantity...Size)	12...20" x 25" x 2" & 12...20" x 20" x 2"
Outdoor Air Mesh Filter (Quantity...Size)	15...16" x 25" x 1"

### Factory Installed Options

Application Type	Staged Air Volume
High Static Return Fan and Modulating Exhaust Damper with BP Control	Selected
Hail Guard	Selected
Phase Monitor	Selected
Terminal Block	Selected
65kA High SCCR, Short Circuit Current Rating	Selected
Low Ambient Cooling	Selected
Low Sound	Selected



# Unit Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU 4-5

Submitted by: Philip Brown

## Ordering Information

Part Number	Description	Quantity
50V2HX54A2E6B8MFA1	Rooftop Unit	1
	Base Unit	
	Hot Water	
	Hail Guard	
	Phase Monitor	
	65kA High SCCR, Short Circuit Current Rating	
	Ultra-Low Leak Economizer	
	2" MERV 8	
	High Static Indoor Fan	
	Low Sound Package	
	High Static Return Fan and Modulating Exhaust Damper with BP Control	



# Unit Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU 4-5

Submitted by: Philip Brown

## Warranty Information

**Warranty**

First year - Parts only (standard)

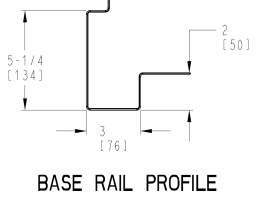
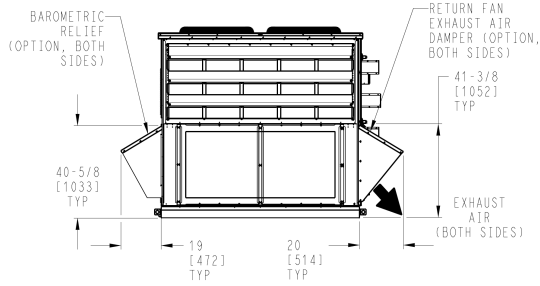
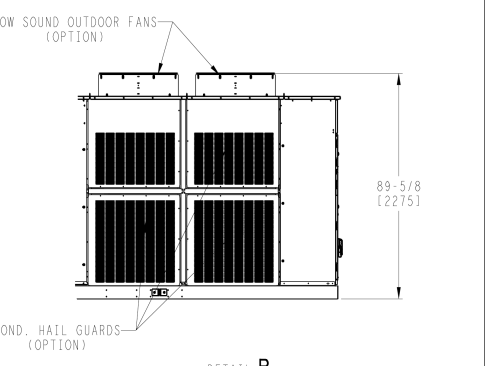
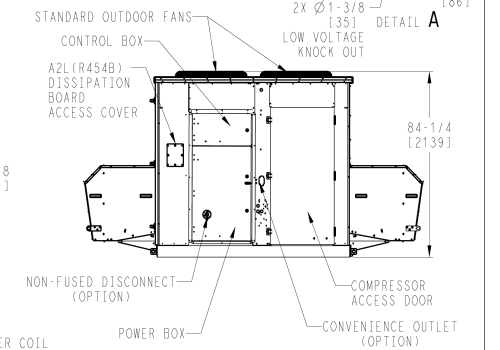
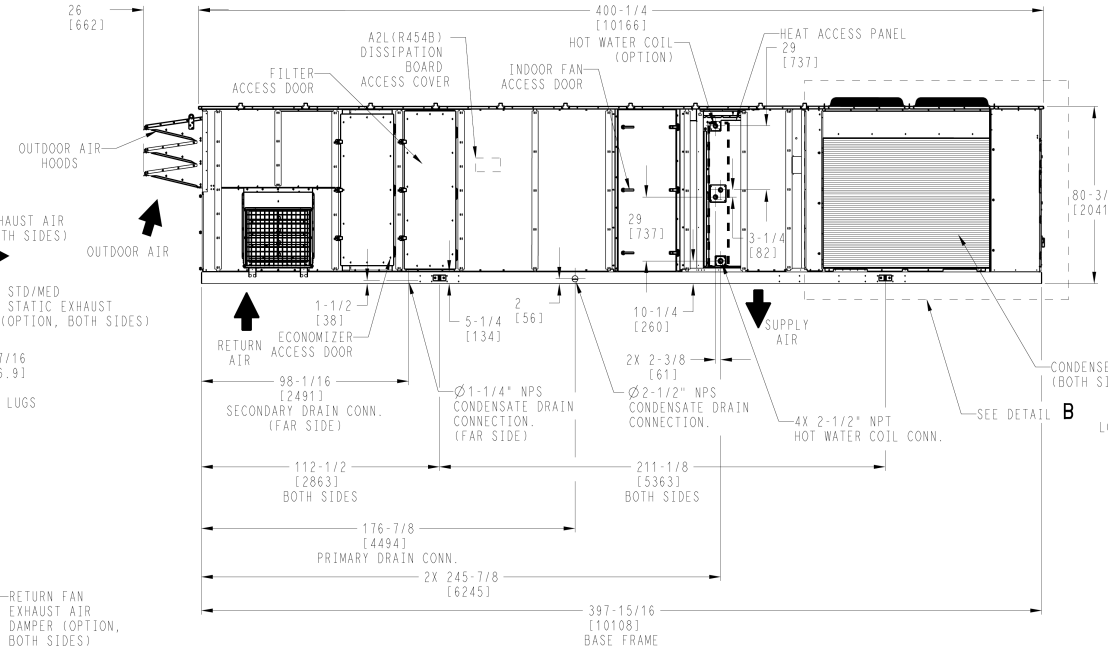
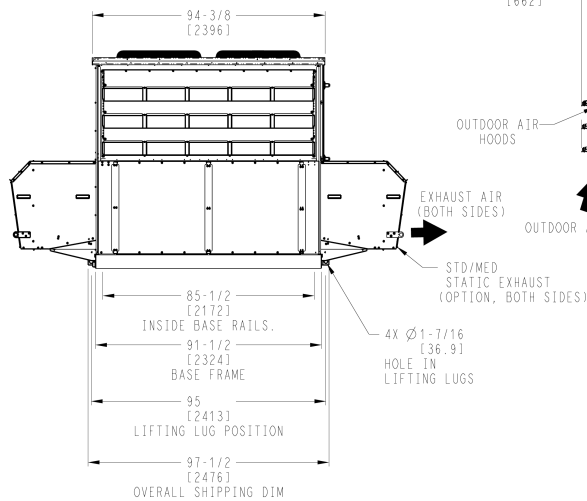
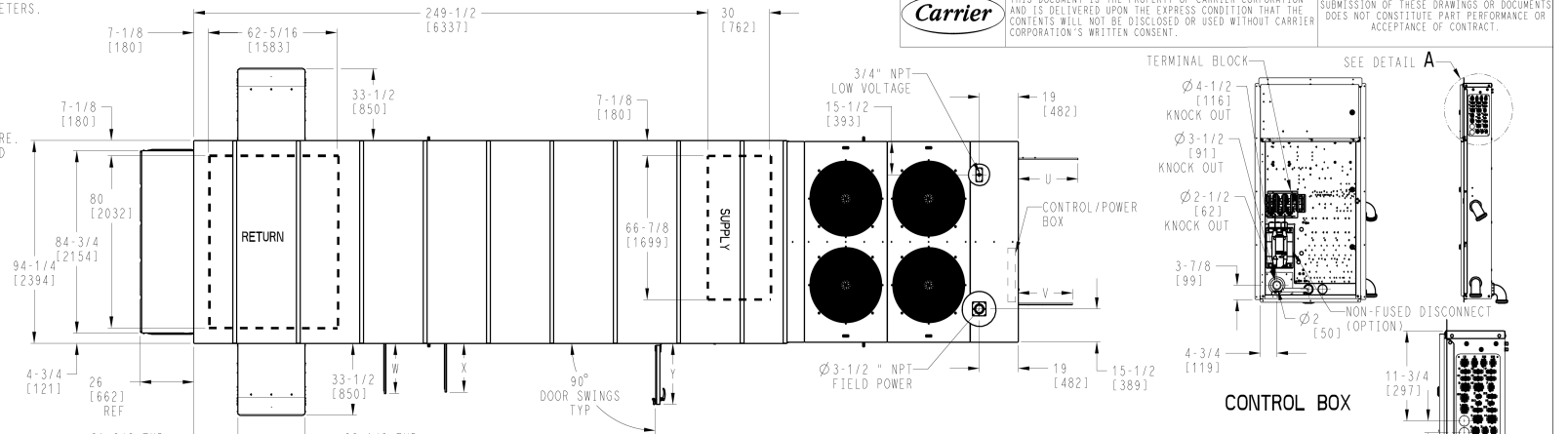
- NOTE:
1. DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE IN MILLIMETERS.
  2. UNIT CLEARANCES (FROM EDGE OF UNIT)  
TOP - DO NOT RESTRICT CONDENSER FANS  
CONDENSER END - 6'-0"  
SIDES - 6'-0"  
ECONOMIZER END - 6'-0"  
SEE PRODUCT DATA FOR MULTIPLE UNIT SPACING.
  3. REFER TO SUBMITTAL OR PRODUCT DATA FOR UNIT WEIGHTS.
  4. DUCTWORK CANNOT ATTACH TO UNIT BASEPAN.  
DUCTWORK MUST ATTACH TO ROOF CURB OR UNIT SUPPORT STRUCTURE.
  5. OUTDOOR AIR HOODS SHIP AS SHOWN. RELIEF HOODS SHIP FLIPPED INSIDE UNIT. EXHAUST FAN HOODS SHIP RETRACTED IN UNIT.  
RETURN FAN HOODS SHIP FOLDED IN.
  6. OPTIONAL HOT WATER COIL SHOWN. NO HEAT AND OPTIONAL ELECTRIC HEAT NOT SHOWN.

Carrier

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DOOR WIDTH	
U	29 [736]
V	27 [686]
W	23-3/8 [594]
X	22-5/8 [576]
Y	28-1/4 [718]



VERTICAL SUPPLY/RETURN - NO RELIEF,  
BAROMETRIC RELIEF, STD STATIC  
EXHAUST FAN, MED/HIGH STATIC RETURN FAN

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	50V STANDARD CHASSIS SIZE 54-60	48VV009481	REV
U.S. ECCN:EAR99	1 OF 3	06/12/25	-			C



# Performance Report

**Project Name:**  
Fremont County

**Tag Name:**  
RTU 4-5

Submitted by: Philip Brown

## Project Name: Fremont County

Tag Name: RTU 4-5

Shipping Dimensions		
Unit Length	ft and in	35' 4"
Unit Width	ft and in	8' 2"
Unit Height	ft and in	7' 6"
Unit Operating Weight	lb	8125
Unit Shipping Weight	lb	8175

\*\*\*As-built weight tolerance is +/- 5%. See certified drawings unit dimensions.  
\*\*Weights and dimensions do not include accessories, or special order options.

Performance Information	
Part Number	50V2HX54A2E6B8MFA1
Unit Refrigerant	R454B
EER	10
IEER	17.6
Heat Type	Hot Water Coil
Supply/Return	Vertical / Vertical
Application Type	Staged Air Volume
Voltage	460-3-60
Cooling Airflow	CFM 21000.0
Altitude	ft 5331
Condenser Entering Air Temperature	F 95.0
Evaporator Entering Air Temperature Dry Bulb	F 80.0
Evaporator Entering Air Temperature Wet Bulb	F 62.0
Evaporator Entering Air Enthalpy	BTU/lb 30.53
Leaving Air Temperature Dry Bulb	°F 57.0
Leaving Air Temperature Wet Bulb	°F 52.6
Leaving Air Enthalpy	BTU/lb 23.74
Gross Cooling Capacity	MBH 527.73
Gross Sensible Cooling Capacity	MBH 429.4
Compressor Power	kW 43.63
Coil Bypass Factor	0.244
Refrigerant Charge, Circuit A	29.2
Refrigerant Charge, Circuit B	29.7

Hot Water Heating Data		
Heating Airflow	CFM	21000.0
Heating Entering Air Temperature	F	70.0
Leaving Air Temperature	°F	99.0
Air Temperature Rise	°F	29.0
Heating Capacity	MBH	657.7
Fluid Type	50% Propylene Glycol	
Entering Fluid Temperature	F	180.0
Leaving Fluid Temperature	°F	158.1
Fluid Temperature Drop	°F	21.9
Fluid GPM	gpm	60.0
Fluid Pressure Drop (Does not include Header PD)	ft wg	4.64

Electrical Data	
Voltage Range	414 - 506
Power Supply MCA	178
Power Supply MOCP (Fuse or HACR)	200
Minimum Non-Fused Disconnect Amperage	196
Unit Capacity	STD
SCCR Rating	65kA
Control Load	2.4
Compressor #1 QTY	1
Compressor #1 RLA/*MRC*	*31.2*
Compressor #2 QTY	2
Compressor #2 RLA	22.4
Compressor #2 LRA	158
Outdoor Fan Drive	LOW
Outdoor Fan Details (Qty./*MOC* (ea))	4 / *2.8*
Indoor Fan Motor Type	HIGH
IFM Details (Qty./HP(ea))*MOC*(ea)	4 / 9.4 / *10*
Exhaust/Return Fan	High RF
Exhaust/Return Fan Details (Qty/HP(ea))*MOC*(ea)	4 / 9.7 / *10.1*
Electrical Convenience Outlet	None

**Note: Field provided J type fuses are required for high SCCR rating**

Supply Fan Information		
Supply Airflow	CFM	21000.0
Duct Static Pressure	in wg	2.75
Hot Water Coil Loss	in wg	0.51
Clean Filter Loss	in wg	0.02
Economizer Loss	in wg	0.15
Total External Static Pressure	in wg	3.44
Supply Fan Speed	RPM	2594
Supply Fan Power	BHP	22.99

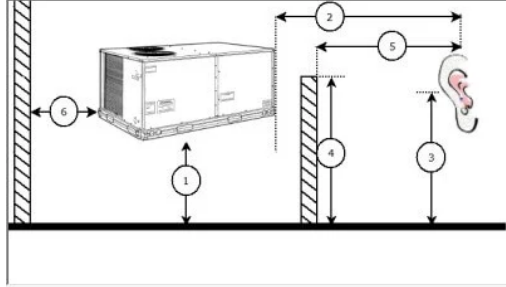
Return Fan Information		
Return Fan Airflow	CFM	20000.0
Duct Static Pressure	in wg	0.50
Total External Static	in wg	0.50
Return Fan Speed	RPM	1389
Return Fan Power	BHP	5.01

Submitted by: Philip Brown

### Acoustic Information

Frequencies Hz	63	125	250	500	1000	2000	4000	8000
Outdoor Lw	61.05	71.29	78.22	86.02	87.97	90.51	86.43	77.07

Discharge/ Inlet Duct Sound Power test data rated in accordance with the AHRI 260 Standard.



### Advanced Acoustics Parameters

Unit height above ground	ft	30.0
Horizontal distance from unit to receiver	ft	50.0
Receiver height above ground	ft	5.7

### Detailed Acoustic Information

Octave Band Center Freq.	Hz	63	125	250	500	1000	2000	4000	8000	Overall
A	Lw	61.05	71.29	78.22	86.02	87.97	90.51	86.43	77.07	94.35
B	LwA	34.85	55.19	69.62	82.82	87.97	91.71	87.43	75.97	94.63
C	Lp	29.57	39.81	46.74	54.54	56.49	59.03	54.95	45.59	62.87
D	LpA	3.371	23.71	38.14	51.34	56.49	60.23	55.95	44.49	63.15

**Legend**

- A - Sound Power Levels at Unit's Acoustic Center
- B - A-Weighted Sound Power Levels at Unit's Acoustic Center
- C - Sound Pressure Levels at Specific Distance from Unit
- D - A-Weighted Sound Pressure Levels at Specific Distance from Unit



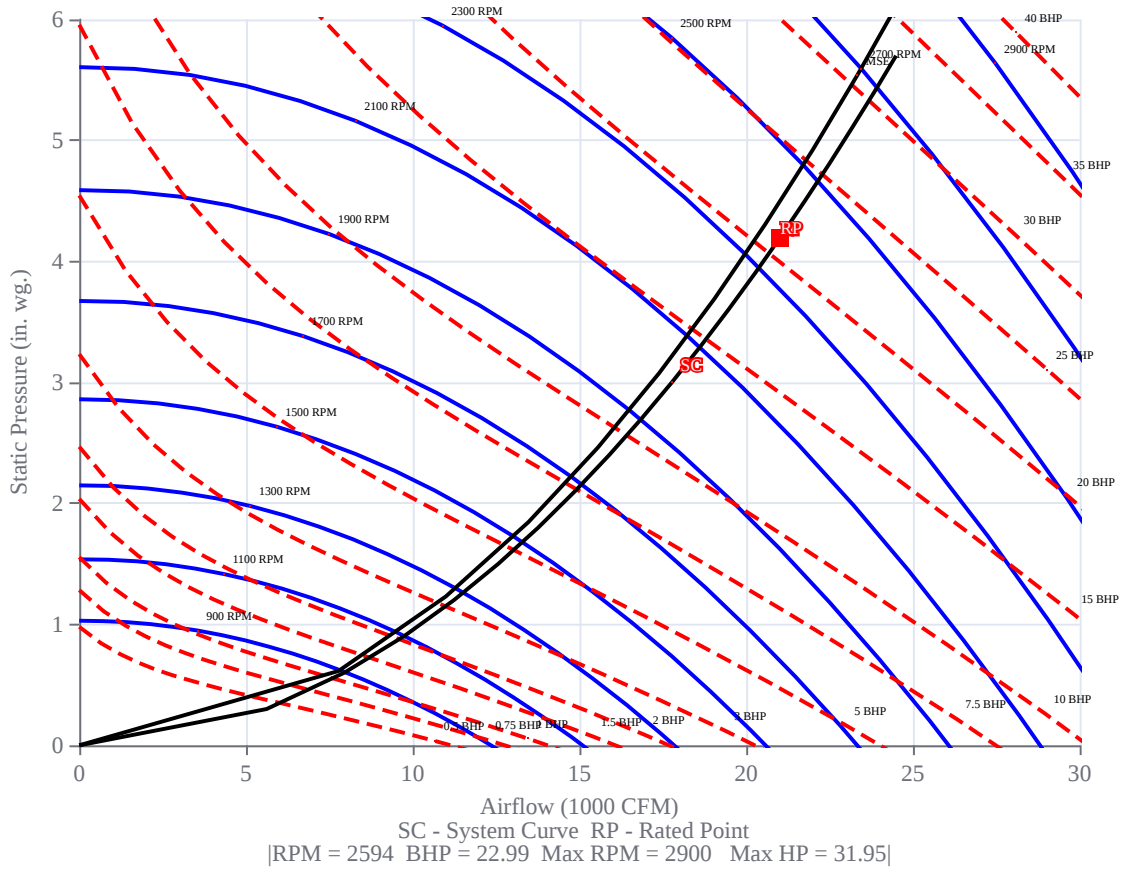
# Performance Report

Project Name:  
Fremont County

Submitted by: Philip Brown

Tag Name:  
RTU 4-5

## Supply System Curve





# Performance Report

Project Name:  
Fremont County

Tag Name:  
RTU 4-5

Submitted by: Philip Brown

## Return Fan System Curve

