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Shop Drawing Submittal Comments

Project Name: Kirkmont Church
Project Number: 23059
Submittal Name: RTU1-A

Date: Review #1: 2024-02-26
 Review #2: 2024-04-05
 Review #3: 2024-04-22 (*Additional Service Fee Required*)
 Review #4: 2024-05-14 (*Additional Service Fee Required*)
 Review #5: 2024-05-22 (*Additional Service Fee Required*)
 Review #6: 2024-06-10 (*Additional Service Fee Required*)

THIS REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. VMP ENGINEERING DOES NOT ASSUME RESPONSIBILITY FOR THE CORRECTNESS OF SUBMITTED INFORMATION RELATED TO CONTRACT DOCUMENTS.

CONTRACTOR IS STILL RESPONSIBLE FOR ALL DETAILS, DIMENSIONS, FIELD CONDITIONS, COORDINATION WITH OTHER TRADES, ETC FOR THE COMPLETE INSTALLATION PER INTENT OF THE CONTRACT DOCUMENTS.

NO EXCEPTIONS TAKEN

MAKE CORRECTIONS NOTED X

AMEND & RESUBMIT

REJECTED

REVIEWED BY: DS

COMMENTS:

1. RTU1-A - Provide all Required Accessories.

RTU-1A PAGE 5

Review of this submittal is for conformance with information contained in the contract documents. Submitter shall verify and be responsible for all dimensions related to field conditions, coordination of same with this submission, quantities, fabrication, and installation. Review does not authorize changes in contract unless stated by letter from Architect.

Reviewed Resubmit Reviewed as noted

By: chrisk 06/11/2024
 M+A Architects



SUBMITTAL TITLE SHEET

PROJECT TITLE:

KIRKMONT CHURCH ADDITION

SUBMITTAL TYPE:

PRODUCT DATA

SECTION SUBMITTAL NUMBER:

23.74.20

SECTION TITLE:

Packaged Rooftop Units

DATE PREPARED:

5/29/2024

CONTRACTOR OF RECORD:

**Ridge Stone General Contractors, LTD
7015 Lighthouse Way #500
Perrysburg, OH 43551
Office: 419-874-8847
Project Manager: Rod Nofziger
PM email: rod@ridgestonebuilders.com**

SECTION SUBCONTRACTOR:

**Mechanical Optimizers, Inc.
2145 Patterson Street
Cincinnati, OH 45214
Office: (513)-467-1444 – Cell: (859) 380-0212
Project Manager: Brian Wayson
PM email: bwayson@mechopt.com**

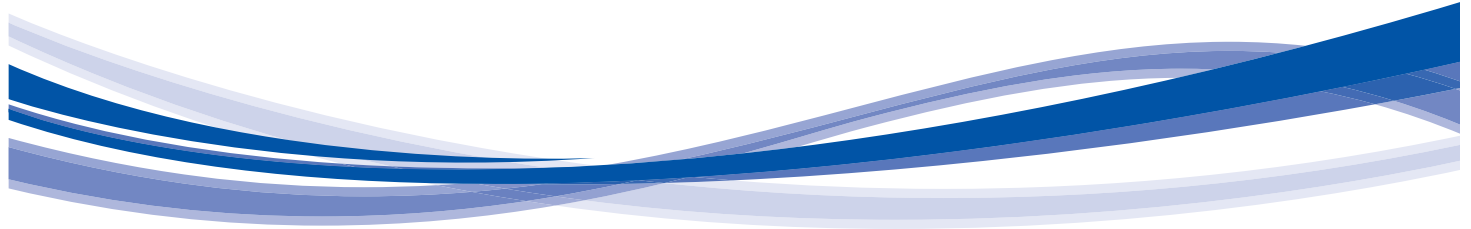
**RTU-1A
SUBMITTAL**

**Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report
Corner Weight**



Product Data

WeatherMaker® Packaged Rooftop Units 20 to 60 Nominal Tons



48/50A2,A3,A4,A5020-060
Single-Package Gas Heating/Electric Cooling
Rooftop Units and Electric Cooling
Rooftop Units with Optional Electric Heat with *ComfortLink* Controls
and Puron® Refrigerant (R-410A)

Unit Report For RTU-1A

Project: Kirkmont Church
 Prepared By:

05/28/2024
 08:54AM

Unit Parameters

Unit Size:..... **030 (30 Tons)**
 Volts-Phase-Hertz: **208-3-60**
 Supply / Return: **Vertical/Vertical**
 Configuration:..... **Staged Air Volume**
 Evaporator Coil Type: **Standard**
 Heating Capacity: **High Gas Heat, Multi-Stage**
Stainless Steel Heat Exchanger, Humidimizer
 Heat Option:..... **Multi-staged**
 Greenspeed: **Selected**

Shipping Dimensions

Unit Length:..... **13' 9"**
 Unit Width:..... **7' 10"**
 Unit Height: **6' 1"**

Unit Operating Weight:..... **4669** lb
 Unit Shipping Weight:..... **4707** lb
 ***Weights and Dimensions are approximate. Weight does not include curbs and accessories. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions refer to certified drawings.

Factory Installed Options

Application Type:..... **Staged Air Volume**
 Non Fused-Disconnect:..... **Selected**
 CO2 Sensor: **Selected**
 Digital Compressor:..... **Selected**

Exhaust/Outdoor Air

OA Intake/Return: **Modulating Power Exhaust**
 Outdoor Air Intake: **Differential Enthalpy Ultra Low Leak Economizer**

Supply Fan

Supply Fan Type:..... **Forward Curve**
 Supply Fan Motor HP:..... **10 HP**

Condenser Coil

Cond. Coil Fin Coating: **MCHX Cond, Al/Cu Evap**

Mixed-Air and Outdoor Air Filters

Mixed-Air Filter Type: **Standard Efficiency Throwaway**
 Mixed-Air Filter (Quantity) Size: **(10) 20 x 24 x 2**
 Outdoor Air Filter (Cleanable Mesh):..... **(8) 16 x 25 x 2, (4) 20 x 25 x 2**

Warranty Information

First Year - Parts Only (Standard)
 Cooling Start up, first unit
 Heating Start up, first unit
 Gas Heat Exchanger Plan 6-10 Years Parts Only
 Complete Unit 1st Year Carrier CCS Labor
 Compressor Years 2-5 Parts Only

Ordering Information

Part Number	Description	Quantity
48A6W030BNM551HP	Rooftop Unit With Greenspeed Intelligence	1
	Differential Enthalpy Ultra Low Leak Economizer	
	Modulating Power Exhaust	
	Non-Fused Disconnect	
	Premium Efficiency 10 HP Motor w/ VFD	
	Variable Capacity Digital Compressor	
	Return Air CO2 Sensor	

Accessories

Accessory Part #	Description	Quantity
CRHUMDSN001B00	Outdoor / Return Air Relative Humidity Sensor	2
CRHAILGD006A00	Hail Guards	1
CRSTATUS002A00	Plugged Filter Indicator	1
33CONNECTSTAT43	Carrier Connect Touch Screen Thermostat w/ Humidity Control – Wi-Fi	1
C7-0014-4030	Vibration Isolation Roof Curb w/ Lock-Down Curb Clips	1

Certified Drawing for RTU-1A

Project: Kirkmont Church
Prepared By:

05/28/2024
08:54AM

- NOTES:
- WEIGHTS INCLUDE ECONOMIZER (STD).
 - ⊕ CENTER OF GRAVITY.
 - FOR MULTIPLE UNIT APPLICATIONS SEE LITERATURE.
 - UNIT CLEARANCES:
TOP OF UNITS: NO OVERHANG
CONDENSER COIL: 4'-0" [1219]
ECONOMIZER SIDE: 6'-0" [1829]
HEAT SIDE: 4'-0" [1219]
FILTER ACCESS SIDE: 10'-0" [3048]
(FOR REMOVAL OF EVAPORATOR COIL)
 - FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES, CONTACT CARRIER APPLICATION ENGINEERING DEPARTMENT.
 - BOTTOM DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY ROOF CURB. IF UNIT IS MOUNTED ON DUNNAGE, IT IS RECOMMENDED THE DUCTS MUST BE SUPPORTED BY CROSS BRACES AS DONE ON ACCESSORY ROOF CURB.

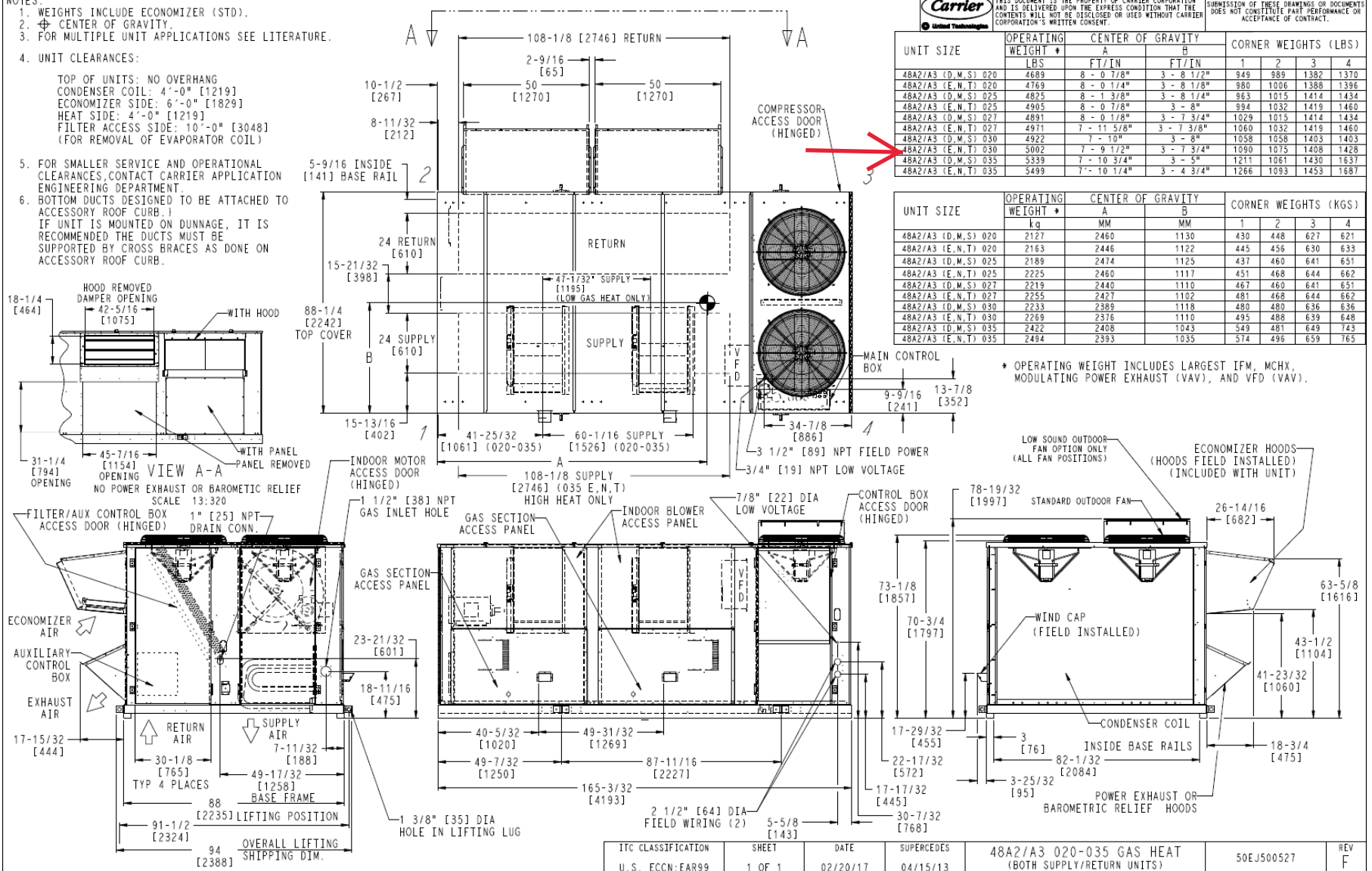
Carrier
UNITED TECHNOLOGIES

THIS DOCUMENT IS THE PROPERTY OF CARRIER CORPORATION AND IS DELIVERED UPON THE EXPRESS CONDITION THAT THE CONTENTS WILL NOT BE DISCLOSED OR USED WITHOUT CARRIER CORPORATION'S WRITTEN CONSENT. SUBMISSION OF THESE DRAWINGS OR DOCUMENTS DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT.

UNIT SIZE	OPERATING WEIGHT #	CENTER OF GRAVITY		CORNER WEIGHTS (LBS)			
		A	B	1	2	3	4
48A2/A3 (D, M, S) 020	4689	8 - 0 7/8"	3 - 8 1/2"	949	989	1382	1370
48A2/A3 (E, N, T) 020	4769	8 - 0 1/4"	3 - 8 1/8"	980	1006	1388	1396
48A2/A3 (D, M, S) 025	4825	8 - 1 3/8"	3 - 8 1/4"	963	1015	1414	1434
48A2/A3 (E, N, T) 025	4905	8 - 0 7/8"	3 - 8"	994	1032	1419	1460
48A2/A3 (D, M, S) 027	4891	8 - 0 1/8"	3 - 7 3/4"	1029	1015	1414	1434
48A2/A3 (E, N, T) 027	4971	7 - 11 5/8"	3 - 7 3/8"	1060	1032	1419	1460
48A2/A3 (D, M, S) 030	4922	7 - 10"	3 - 8"	1058	1058	1403	1403
48A2/A3 (E, N, T) 030	5002	7 - 9 1/2"	3 - 7 3/4"	1090	1075	1408	1428
48A2/A3 (D, M, S) 035	5339	7 - 10 3/4"	3 - 5"	1211	1061	1430	1637
48A2/A3 (E, N, T) 035	5499	7 - 10 1/4"	3 - 4 3/4"	1266	1093	1453	1687

UNIT SIZE	OPERATING WEIGHT #	CENTER OF GRAVITY		CORNER WEIGHTS (KGS)			
		A	B	1	2	3	4
48A2/A3 (D, M, S) 020	2127	2460	1130	430	448	627	621
48A2/A3 (E, N, T) 020	2163	2446	1122	445	456	630	633
48A2/A3 (D, M, S) 025	2189	2474	1125	437	460	641	651
48A2/A3 (E, N, T) 025	2225	2460	1117	451	468	644	662
48A2/A3 (D, M, S) 027	2219	2440	1110	467	460	641	651
48A2/A3 (E, N, T) 027	2255	2427	1102	481	468	644	662
48A2/A3 (D, M, S) 030	2233	2389	1118	480	480	636	636
48A2/A3 (E, N, T) 030	2269	2376	1110	495	488	639	648
48A2/A3 (D, M, S) 035	2422	2408	1043	549	481	649	743
48A2/A3 (E, N, T) 035	2494	2393	1035	574	496	659	765

* OPERATING WEIGHT INCLUDES LARGEST IFM, MCHX, MODULATING POWER EXHAUST (VAV), AND VFD (VAV).



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48A2/A3 020-035 GAS HEAT (BOTH SUPPLY/RETURN UNITS)	50EJ500527	REV
U.S. ECCN:EAR99	1 OF 1	02/20/17	04/15/13			F

Performance Summary For RTU-1A

Project: Kirkmont Church
 Prepared By:

05/28/2024
 08:54AM

Part Number: 48A6W030BNM551HP

Unit Refrigerant: R410A
 EER (AHRI 340/360): 9.8
 IEER (AHRI 340/360): 14.0

Unit Dimensions

Unit Length: 13' 9"
 Unit Width: 7' 10"
 Unit Height: 6' 1"
 Unit Operating Weight: 4669 lb
 Unit Shipping Weight: 4707 lb

***Unit operating weight does not include accessories weight.**

Unit

Heating Type: Gas Heat
 Supply/Return: Vertical/Vertical
 Application Type: Staged Air Volume
 Voltage: 208-3-60
 Cooling Airflow: 7000 CFM
 Altitude: 0 ft
 Cond. Ent. Air Temp: 95.0 F
 Ent. Air Dry Bulb: 86.7 F
 Ent. Air Wet Bulb: 72.4 F
 Ent. Air Enthalpy: 35.96 BTU/lb
 Lvg. Air Dry Bulb: 58.6 F
 Lvg. Air Wet Bulb: 57.9 F
 Lvg. Air Enthalpy: 24.96 BTU/lb
 Gross Cooling Capacity: 352.45 MBH
 Gross Sensible Clg. Cap: 215.36 MBH
 Compressor Power: 25.8 kW
 Coil Bypass Factor: 0.121
 Refrigerant Charge, Circuit A: 15.1 lb
 Refrigerant Charge, Circuit B: 22.5 lb

Part Load(%) Operation

Cooling Capacity Steps: 12.5-25, 37.5-50, 62.5-75, 87.5-100

Dehumidification (Hot Gas Reheat Mode)

Condenser Entering Air DB: 75.0 F
 Evaporator Entering Air DB: 75.0 F
 Evaporator Entering Air WB: 64.0 F
 Entering Air Enthalpy: 29.16 BTU/lb
 Entering Air Relative Humidity: 55.2 %
 Humidi-MiZer(R) Coil Leaving Air DB: 72.8 F
 Humidi-MiZer(R) Coil Leaving Air WB: 58.3 F
 Humidi-MiZer(R) Coil Leaving Air Enthalpy: 25.13 BTU/lb
 Leaving Air Relative Humidity: 41.1 %
 Grains Per LB Removed: 22.2
 Gross Sensible Heat Ratio: 0.129
 Gross Cooling Capacity: 126.85 MBH
 Gross Sensible Capacity: 16.33 MBH
 Compressor Power Input: 20.63 kW

Gas Heating Data:

Heating Airflow: 7000 CFM
 Heating Ent. Air Temp: 35.0 F
 Number of Heating Steps: 7
 Gas Input (Max): 525 MBH
 Gas Output: 425.3 MBH
 Gas Output(Min): 106.3 MBH

Performance Summary For RTU-1A

Project: Kirkmont Church
Prepared By:

05/28/2024
08:54AM

Heating Lvg. Air Temp: **91.3** F
Steady State Eff: **81**
Temp.Rise: **56.3** F
Capacity Stages - Heat (% Full): **25, 33, 50, 67, 75, 83, 100**

Supply Fan Information:

Ext.Static Pressure: **1.25** in wg
Humidimizer Loss: **0.03** in wg
Selection Static Pressure: **1.28** in wg
Supply Fan RPM: **725** *
Supply Fan BHP: **3.51** BHP
Supply Fan Motor HP: **10** HP

Field supplied and installed sheave package may be required

Power Exhaust Information:

Airflow: **5559** CFM
Selection Static Pressure: **0.90** in wg

Performance Summary For RTU-1A

Project: Kirkmont Church
 Prepared By:

05/28/2024
 08:54AM

Electrical Data

Voltage Range:	187 - 229
Indoor Fan Motor HP:	10
Indoor Fan Motor FLA:	30.8
Combustion Fan Quantity:	2
Combustion Fan FLA (ea.):	1.1
Pwr. Exhaust Fan Motor Qty:	4
Pwr. Exhaust Fan Motor FLA (ea.):	5.9
Power Supply MCA:	167
Power Supply MOCP (Fuse or HACR):	175
Electrical Convenience Outlet:	None
Outdoor Fan [Qty / FLA (ea)]:	2 / 6
Compressor Cir. A, No.1 (RLA / LRA):	23.2 / 164
Compressor Cir. A, No.2 (RLA / LRA):	23.2 / 164
Compressor Cir. B, No.1 (RLA / LRA):	23.2 / 164
Compressor Cir. B, No.2 (RLA / LRA):	23.2 / 164

SCCR, Short Circuit Current Rating: 5kA

An uncoated Novation condenser coil was selected for this product. This is based on an installed location with postal code: 45429 and a non-corrosive localized environment.

Acoustic Information

	Discharge, Lw	Inlet, Lw	Outdoor, Lw
63 Hz	89.2	88.1	0.0
125 Hz	76.9	78.1	0.0
250 Hz	74.9	75.9	0.0
500 Hz	73.1	71.4	0.0
1000 Hz	72.5	72.8	0.0
2000 Hz	68.7	68.7	0.0
4000 Hz	66.2	67.3	0.0
8000 Hz	61.1	62.8	0.0

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

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

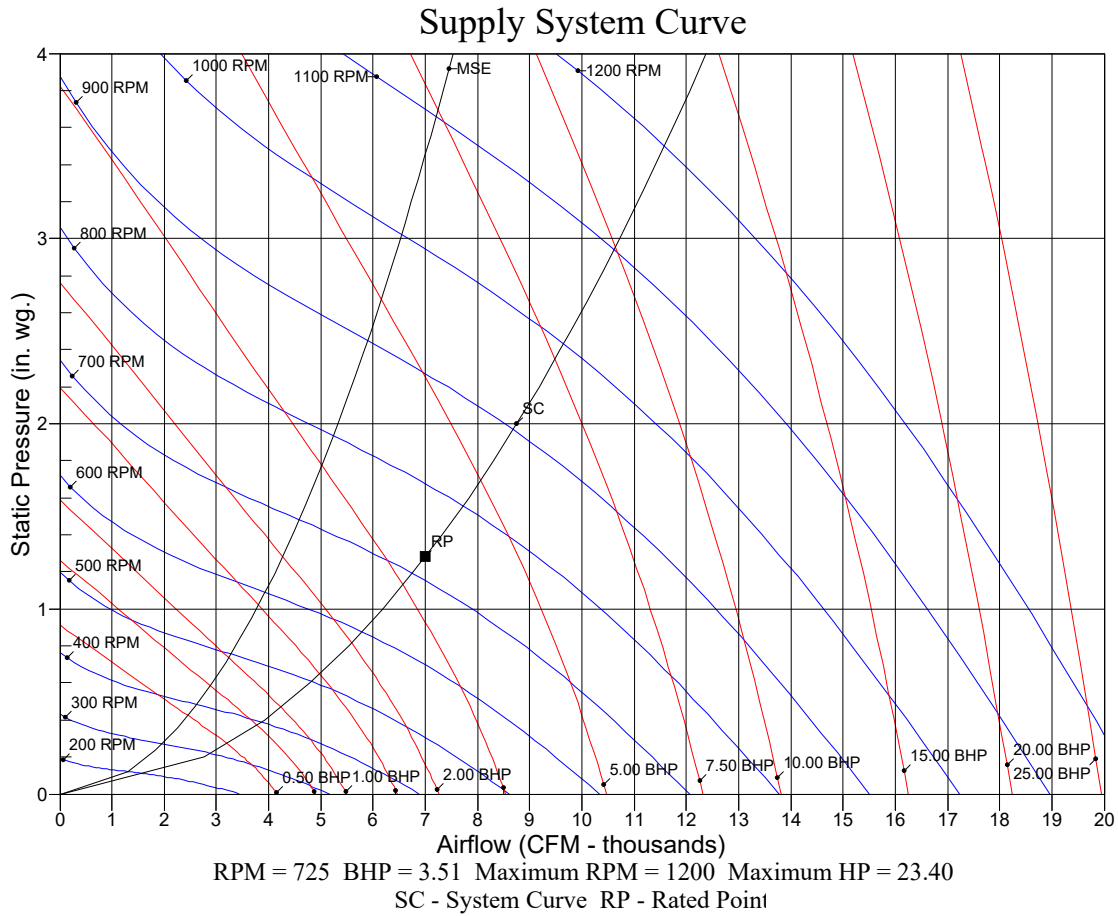
Performance Summary For RTU-1A

Project: Kirkmont Church
 Prepared By:

05/28/2024
 08:54AM

Legend

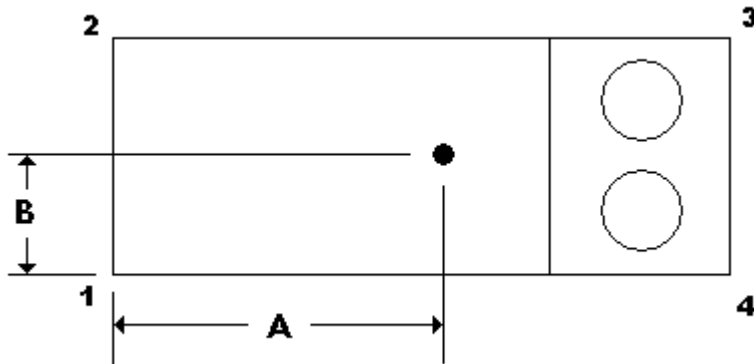
- A Sound Power Levels at Unit's Acoustic Center, Lw
- B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
- C Sound Pressure Levels at Specific Distance from Unit, Lp
- D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA



Corner Weight / Center of Gravity Report For RTU-1A

Project: Kirkmont Church
Prepared By:

05/28/2024
08:54AM



Rooftop Unit Part Number:.....48A6W030BNM551HP

CG Dimension (A): **7' 9"**

CG Dimension (B): **3' 8"**

Unit Length: **13' 9"**

Unit Width: **7' 10"**

Unit Height: **6' 1"**

Unit Weight: **4668.9** lb

Unit Shipping Weight: **4706.5** lb

Corner Weight (1): **1005.0**lb

Corner Weight (2): **1005.0**lb

Corner Weight (3): **1330.0**lb

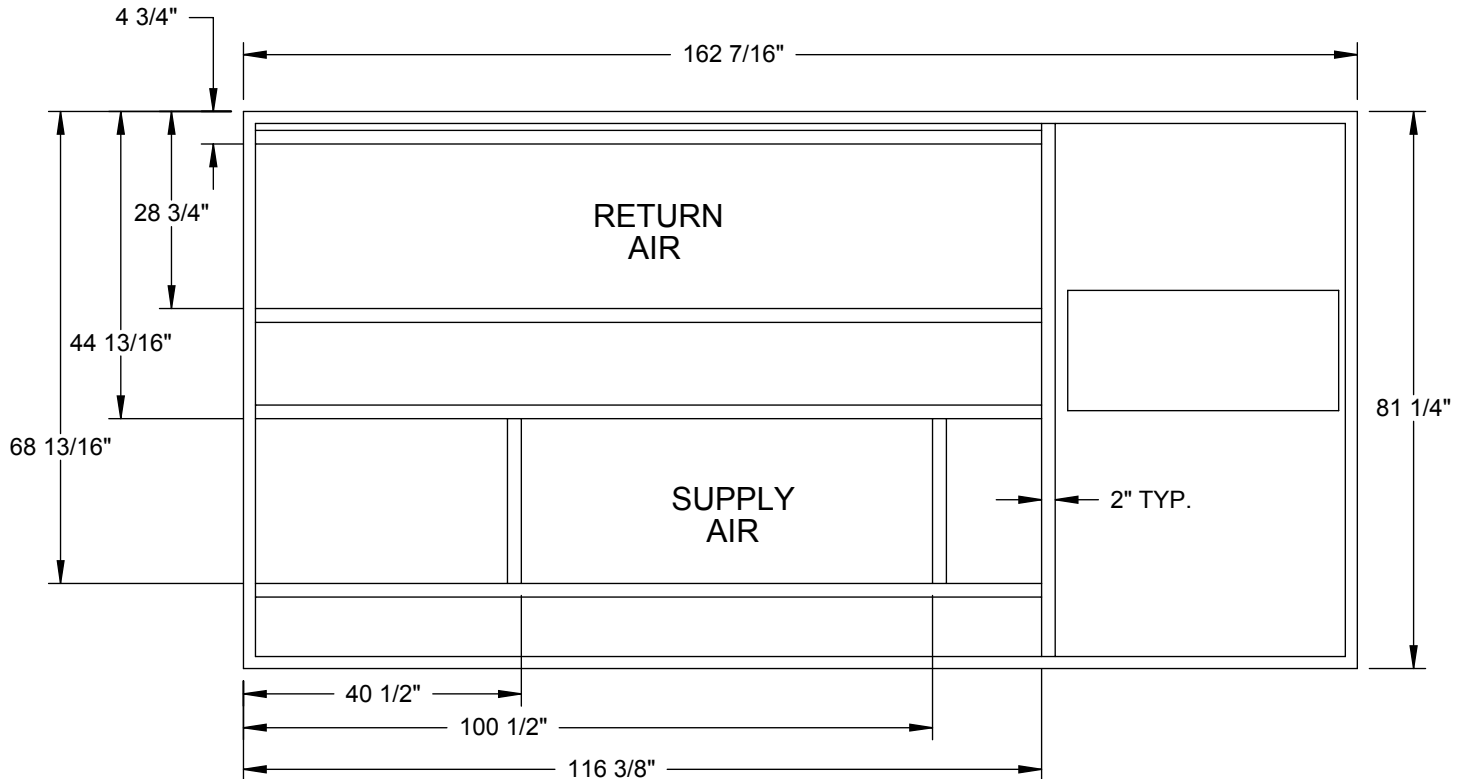
Corner Weight (4): **1328.9**lb

Total Corner Weight: **4668.9** lb

Attn: _____

CARRIER
48/50 AJ/EJ/EK/EW/EY 024-034
580 G,H 558 G,H 240-360

Tag: _____



- * Verify existing curb OD
- * Verify supply and return openings
- * Note any changes
- * Call with any questions
- * Fax back if drawing is OK as is

REV.	DESCRIPTION	DATE	APPROVED
05	ADDED COVER NOTE	11/21/11	MWG
04	UPDATED BRACES	10/6/11	MWG
03	UPDATED ADDRESS	6/29/06	AL
02	CHANGED DIMENSION STYLE TO INSIDE OF R & S OPENINGS	12/8/04	
01	INITIAL DESIGN	11/26/01	MG

DIMENSIONS ARE AS FOLLOWS:
 1.000 in [25.40 mm]



APPROVALS	DATE
DRAWN: mgreenwood	11/21/2011
CHECKED:	.
MGMT:	.

TITLE:
CARRIER/BRYANT ROOF CURB

CDI 17560 TYLER ST NW
 ELK RIVER, MN 55330
 (763)391-7790
 (763)3917851

FILE NAME: 4030	DRAWING NO.: 4030	REV.: 05
ECO #:	SCALE: 1:28 SHEET: 1 OF 1	

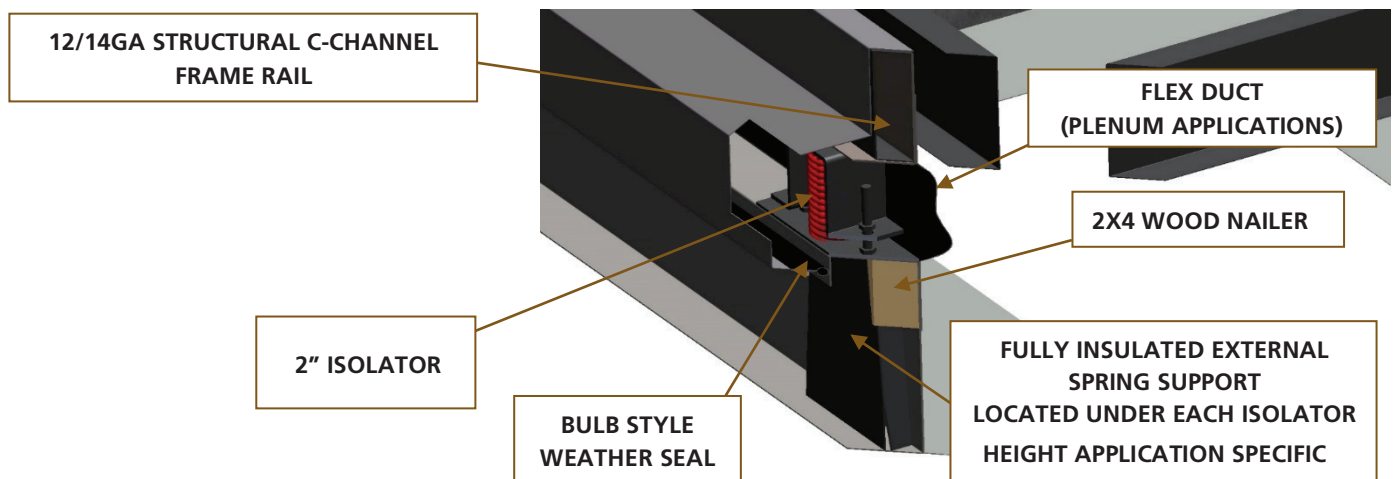
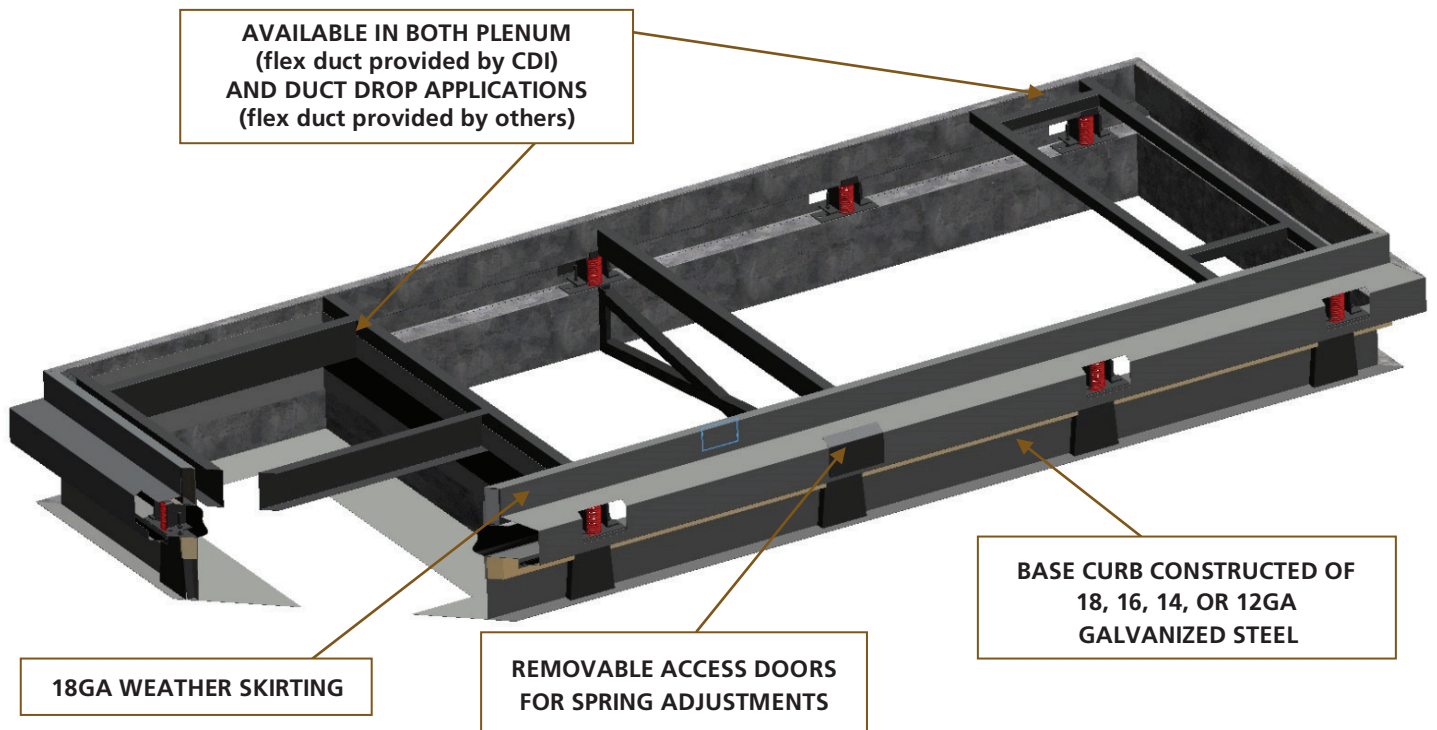


CUSTOM CURB ADAPTERS

VIBRATION ISOLATION CURB - PRODUCT INFORMATION

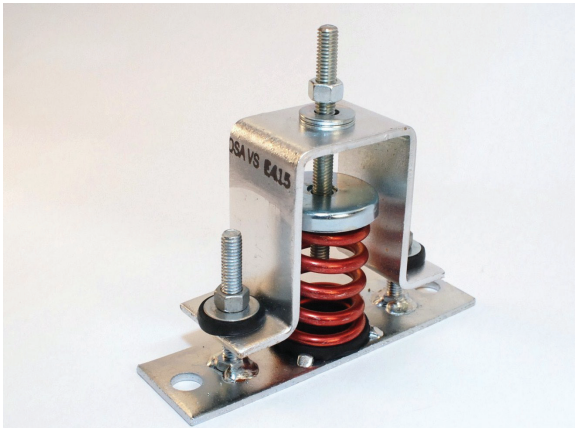
CDI'S "ISO CURB" INCORPORATES THE LATEST IN DESIGN AND INNOVATION for the HVAC market utilizing adjustable isolators in a single piece curb system. CDI Curb systems may be fully installed and roofed in prior to mounting RTU/AHU minimizing unaccounted labor time and delays with other "field assembly required" curbs on the market. Prime G-90 18ga weather skirting and bulb style weather seal provide a long lasting solution to the cracking and failing of "other" exposed rubber weather seal designs. All curb systems are subjected to SolidWorks Simulation load testing prior to fabrication accommodating RTU/AHU and all accessories weight and center of gravity insuring a minimum 90% isolation efficiency.

— ONE PIECE CONSTRUCTION / same great CDI lead times apply —



STANDARD CONSTRUCTION DETAILS

1. Minimum overall height 18"
2. 2" Spring deflection
3. 2x4 wood nailer provided
4. 18-12ga Prime G-90 galvanized steel
5. Fully welded and mitered seams and corners
6. Weather skirt and bulb seal insure water tight seal
7. 2" minimum base flange for securing to building
8. Acoustically non-conductive materials minimize sound transitions
9. Stabilizing Isolators eliminate excess movement
10. Removable Access doors for spring isolator field adjustment
11. Same great CDI lead times apply



ISOLATOR SPEC

1. Housings Hot Dip Galvanized (HDG)
2. Hardware Zinc Plate
3. Springs Powder Coated or Zinc Plated
4. 2" Deflection
5. Style K Load Transfer Nut is pinned to stud
6. Large diameter springs with O.D. not less than 80% of rated deflection height
7. For compact support of heavy loads, some include inner springs
8. California Pre-Approved seismic protection OPA-0070

CURB SPECIFICATIONS

Vibration Isolation curb systems are manufactured of 12-18ga (ASTM A653/653M) prime G90 galvanized steel construction. All corners and seams are mitered and fully welded with internal 12ga/A.I. structural cross and vertical supports when necessary. All curb systems are water tight and plenum applications are air tight utilizing internal flex duct. Top of all Vibration isolation curb systems are level with pitches built into curb when deck slopes. Vibration isolation curb systems are designed to provide a minimum of 90% isolation efficiency with 2" deflection.

ALL CURB SYSTEM OPTIONS

1. External vestibules
2. Internal pipe chases
3. Sloped condenser pans
4. Horizontal discharge
5. Double wall
6. Perforated lining
7. Acoustical floor packages
8. HEPA Filter racks
9. Pitched Base Curb
10. Multi section curbs



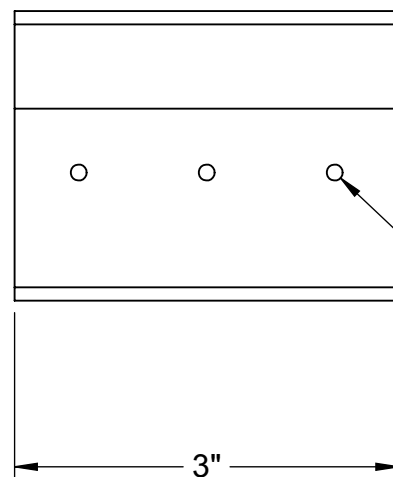
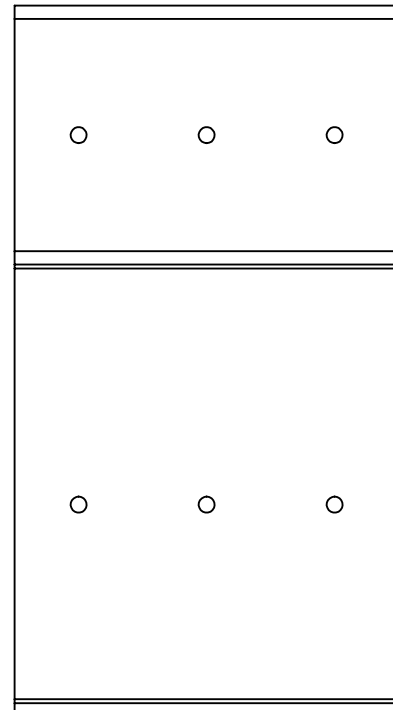
Notes:
1. MATERIAL: 14 ga.
GALVANIZED STEEL

DIMENSIONED AND TOLERENCED PER ANSI Y14.5M-1982

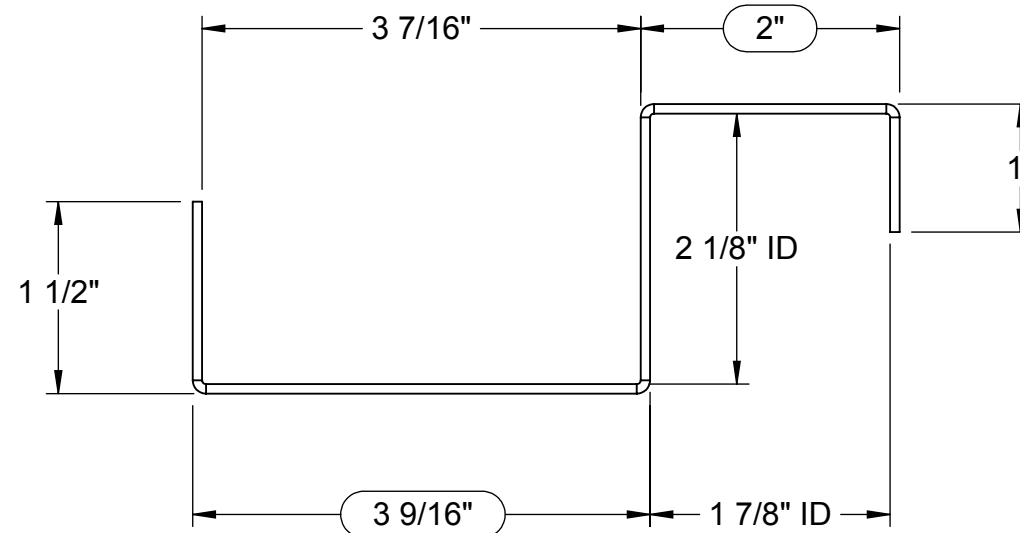
Attn: _____ Tag: _____

Approval: _____

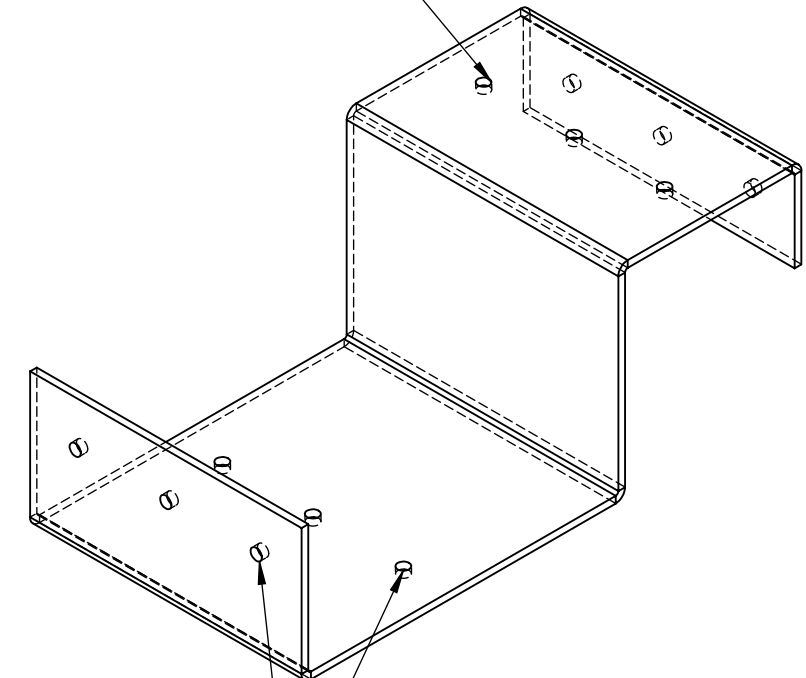
REVISIONS				
REV.	ECO#	DESCRIPTION	DATE	APPROVED
1		INITIAL DWG	5/2/06	TCOY
2		UPDATED DIMENSIONS	5/19/16	SRP



**NON-CALC'D SEISMIC & WIND RESTRAINT
 CLIP FOR USE WITH CDI CURB # 4030 OR 4035
 (6) CLIPS EACH LONG SIDE PER CURB
 (12) CLIPS TOTAL PER CURB**



#12 TEK SCREWS INTO
 CURB ADAPTER



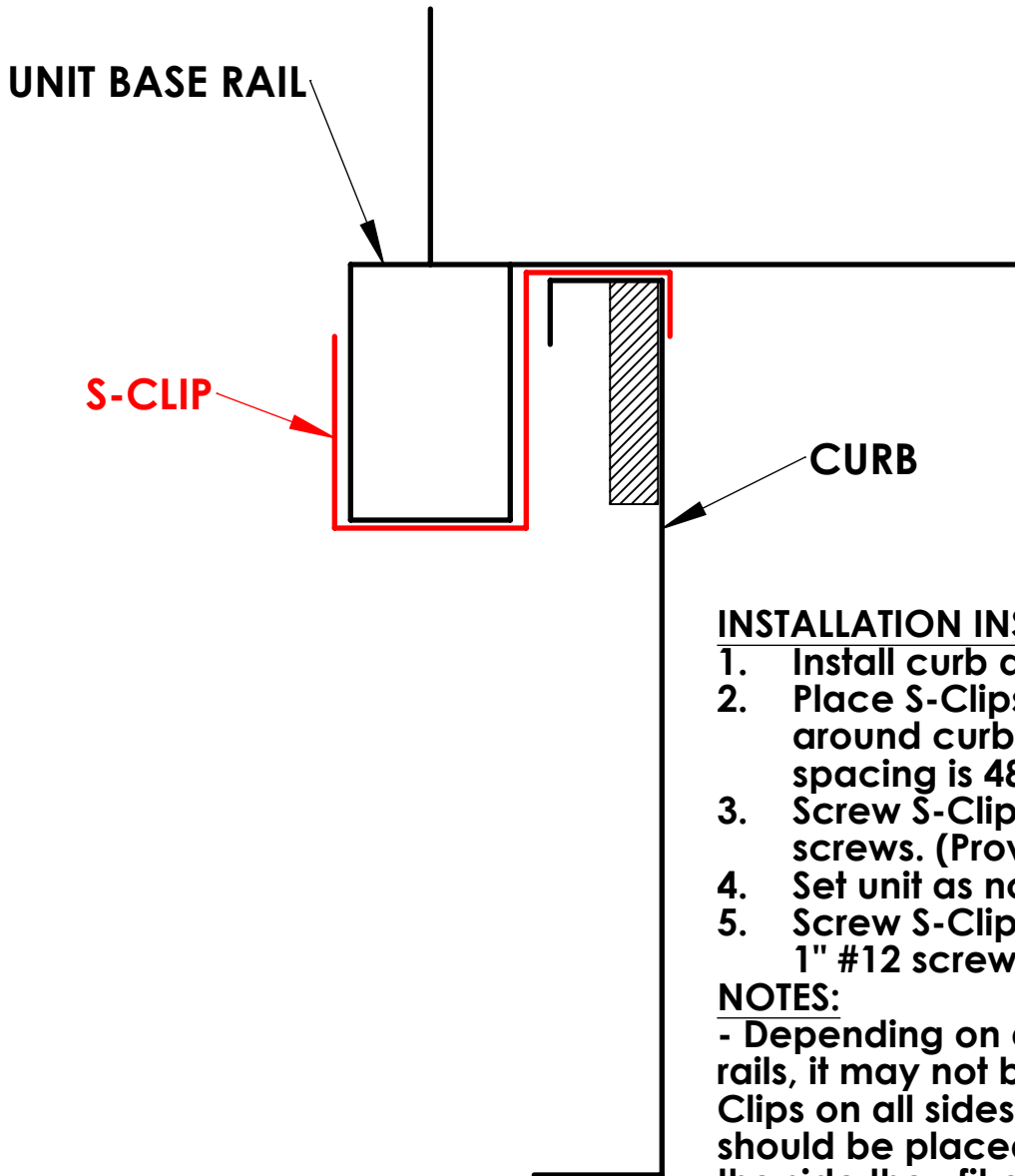
#12 TEK SCREWS INTO
 UNIT BASE RAIL

CLIP SHOWN IS CDI STANDARD CONFIGURATION
 CDI RESERVES THE RIGHT TO CHANGE LAYOUT
 WITHOUT NOTIFICATION. IF CLIP IS NEEDED IN A
 DIFFERENT CONFIGURATION CDI MUST BE NOTIFIED
 PRIOR TO PLACING AN ORDER.

*VERIFY EXISTING CURB OD
 *VERIFY SUPPLY AND RETURN OPENINGS
 *NOTE ANY CHANGES
 *CALL WITH ANY QUESTIONS
 *FAX BACK IF DRAWING IS OK AS IS

CURB WEIGHT (LBS.)	APPROVALS	DATE	TITLE:
0.62	DRAWN: spickar	5/19/2016	4030-4035 S-CLIP
UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE:	CHECKED:	MGMT:	FILE NAME: 4030-4035 S-CLIP
X ± 0.05 XX ± 0.03 XXX ± 0.01			DRAWING NO.: 4030-4035 S-CLIP
DIMENSIONS ARE AS FOLLOWS: 1.00 in [25.40 mm]			ECO #:
3RD ANGLE PROJECTION	CDI	(763)391-7790 (763)391-7851	REV: 2
			SCALE: 1:3 SHEET: 1 OF 2

REVISIONS				
NO.	REV.	DESCRIPTION	DATE	APPRV



INSTALLATION INSTRUCTIONS:

1. Install curb as normal.
2. Place S-Clips evenly spaced around curb. CDI's recommended spacing is 48" or less.
3. Screw S-Clips to curb using 1" #12 screws. (Provided by others)
4. Set unit as normal.
5. Screw S-Clips to unit base rail using 1" #12 screws (Provided by others)

NOTES:

- Depending on design of unit base rails, it may not be possible to have S-Clips on all sides of the unit. Clips should be placed closer together on the side they fit or can be field-modified to work as necessary

APPROVALS		DATE	TITLE:
DRAWN:		.	
CHECKED:		.	
MGMT:		.	
CDI 17560 TYLER ST NW ELK RIVER, MN 55330 (763)391-7790 (763)3917851		FILE NAME:	DRAWING NO.:
		S-Clip Instructions	
DIMENSIONS ARE AS FOLLOWS: 1.000 in [25.40 mm]		ECO #:	SCALE: 1:3 SHEET: 1 OF 1
3RD ANGLE PROJECTION			



i-Vu® Building Automation System Connect™ BACnet Thermostat

Part number: 33CONNECTSTAT43



Carrier's Connect™ BACnet thermostat offers control of your building's heating, ventilating and air-conditioning (HVAC) system via Wi-Fi® to Connect's Smartphone mobile App as well as from any BACnet-compliant building management system (BMS), including Carrier's i-Vu® building automation system.

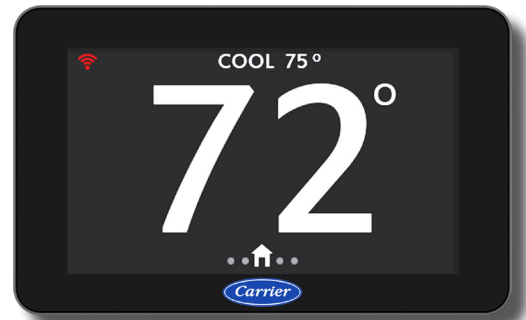


Hardware Features

- **Color Capacitive Touchscreen:** 4.3" vibrant full-color LCD swipe and scroll screen that's easy to navigate and view from any angle
- **BACnet:** MS/TP port for easy integration with i-Vu system or any BACnet-compliant BMS
- **Sensors:** Onboard Temperature and Humidity
- **Direct Wi-Fi® Access:** Easily connect to your building's network
- **Slim Profile:** Blends easily into any building's decor and environmental surroundings

Application and System Features

- **Display:** Celsius or Fahrenheit
- **Applications:** Supports up to 4 heating and 3 cooling stages with various new or existing HVAC equipment with 24 VAC control
- **7-Day Scheduling:** Precisely adjust optimum comfort setpoints to achieve energy savings
- **Demand Response Ready:** For participation in local demand response programs
- **Over-the-Air Software Updates:** Directly sent over Wi-Fi network without having to manually check for updates
- **Control:** Make basic temperature, comfort and efficiency adjustments easily and quickly
- **Alerts:** Notification through SMS text and eMail of any critical issues
- **Embedded Contractor Info:** Lets you know who to contact for service
- **Local Access Security:** Provides selective access for authorized individuals
- **Smartphone App and Web Portal:** Configure using your internet-connected Smartphone, PC or Tablet from anywhere or anytime... in real time



Visit connectstat.carrier.com and create an account.

i-Vu® Building Automation System Connect™ BACnet Thermostat



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Specifications

Power Requirements	R,C 24 Vac 50/60 Hz @ 6VA
Communication	A+, B BACnet: MS/TP with baud rates up to 76.8 kbps, detected and set automatically. Max 127 devices. Wi-Fi®: 802.11 a/b/g/n
Real-Time Clock	Real-time clock keeps track of time in the event of a power failure for up to 7 days.
Display	Color Capacitive Backlit Touchscreen, °F or °C Selectable
Input	S1-S2 Remote Temperature Sensor 10K Type II. Software selectable for: Remote Temperature (33ZCT55SPT) Outside Air Temperature (33ZCSENOAT) Duct Temperature (33ZCSENSAT)
Outputs	G,W1,W2,Y1,Y2,Y3,O Minimum Load = 1000 ohms Maximum Load = 1.25 A, 50% power factor
Environmental Operating Range	32° to 104°F (0° to 40°C), 10 to 95% relative humidity, non-condensing
Compliance	FCC Part 15, Subpart J compliant Title 24 compliant IECC 2015 compliant
Physical	Dimensions: (H x W x D): 3.23 in. (82mm) x 5.13 in. (130mm) x .94 in. (24mm) Weight: approximately .75 lb (340g) Lead-free design
Mounting	Wall mount on a standard 4" x 2-1.2 x 2" electrical box

Get the 'Carrier Connect Thermostat' App at:

