




The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.


Header @ 2

 List View

General Information | [Contact](#) | [Default Values](#) | [Discount](#) | [Document Information](#) | [Clarification Request](#)

Procurement Folder: 1278213


Procurement Type: Central Purchase Order

Vendor ID: 


Legal Name: TRANE US INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 

Response Time:

Responded By User ID: 

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CRFQ

SO Dept: 0603

SO Doc ID: ADJ2400000005

Published Date: 8/23/23

Close Date: 9/6/23

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 2

Total of All Attachments: 2



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder: 1278213
Solicitation Description: 2 - Commercial Rooftop AC Units - St. Albans Armory
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2023-09-06 13:30	SR 0603 ESR09062300000001213	1

VENDOR
000000159732
TRANE US INC

Solicitation Number: CRFQ 0603 ADJ2400000005
Total Bid: 0
Response Date: 2023-09-06
Response Time: 09:59:00
Comments:

FOR INFORMATION CONTACT THE BUYER
David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor
Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Two (2) 30-Ton Commercial Air Conditioning Rooftop Units	0.00000	EA	106300.000000	0.00

Comm Code	Manufacturer	Specification	Model #
40101701			

Commodity Line Comments: Price includes Start-up service. Total Price is \$212,600.00. (Quantity shown in system is 0, so I believe it is not totaling up.)

Extended Description:

See Attached Exhibit "A" Pricing Page
 Contract Item #1 - Two (2) 30-Ton Packaged Industrial Rooftop Air Conditioning Unit (Intellipak) - Trane Model SAHLF 3040, or equal.



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote

Proc Folder: 1278213			Reason for Modification:
Doc Description: 2 - Commercial Rooftop AC Units - St. Albans Armory			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2023-08-23	2023-09-06 13:30	CRFQ 0603 ADJ2400000005	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code: 00000015732

Vendor Name : Trane US Inc

Address : Trane

Street : 2303 Trane Dr

City : Roanoke

State : VA **Country :** USA **Zip :** 24017

Principal Contact : Kenneth Young

Vendor Contact Phone: 304-546-6294 **Extension:**

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor
Signature X **FEIN#** 250900465 **DATE** 9/6/2023

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION
The West Virginia Purchasing Division is soliciting bids on behalf of the Adjutant General's Office, Division of Engineering and Facilities to establish a contract to provide two (2) commercial rooftop air conditioning units at the St. Albans National Guard Armory, in St. Albans, WV, per the attached specifications.

INVOICE TO	SHIP TO
ADJUTANT GENERALS OFFICE 1707 COONSKIN DR CHARLESTON WV US	ST ALBANS ARMORY 5 ARMORY DR SAINT ALBANS WV US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Two (2) 30-Ton Commercial Air Conditioning Rooftop Units	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
40101701			

Extended Description:
 See Attached Exhibit "A" Pricing Page

Contract Item #1 - Two (2) 30-Ton Packaged Industrial Rooftop Air Conditioning Unit (Intellipak) - Trane Model SAHLF 3040, or equal.

SCHEDULE OF EVENTS		
<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Vendor Technical Questions Due By 11:00 am., est.	2023-08-29

	Document Phase	Document Description	Page 3
ADJ2400000005	Draft	2 - Commercial Rooftop AC Units - St. Albans Armory	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

1. REVIEW DOCUMENTS THOROUGHLY: The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.

2. MANDATORY TERMS: The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

3. PREBID MEETING: The item identified below shall apply to this Solicitation.

☐ A pre-bid meeting will not be held prior to bid opening

☐ A **MANDATORY PRE-BID** meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing.

Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. VENDOR QUESTION DEADLINE: Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are nonbinding.

Submitted emails should have the solicitation number in the subject line.

Question Submission Deadline:

Submit Questions to:
2019 Washington Street, East
Charleston, WV 25305
Fax: (304) 558-3970
Email:

5. VERBAL COMMUNICATION: Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.

6. BID SUBMISSION: All bids must be submitted on or before the date and time of the bid opening listed in section 7 below. Vendors can submit bids electronically through wvOASIS, in paper form delivered to the Purchasing Division at the address listed below either in person or by courier, or in facsimile form by faxing to the Purchasing Division at the number listed below. Notwithstanding the foregoing, the Purchasing Division may prohibit the submission of bids electronically through wvOASIS at its sole discretion. Such a prohibition will be contained and communicated in the wvOASIS system resulting in the Vendor's inability to submit bids through wvOASIS. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via email. Bids submitted in paper or facsimile form must contain a signature. Bids submitted in wvOASIS are deemed to be electronically signed.

Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason.

For Request for Proposal ("RFP") Responses Only: Submission of a response to a Request for Proposal is not permitted in wvOASIS. In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal prior to the bid opening date and time identified in Section 7 below, plus _____ convenience copies of each to the Purchasing Division at the address shown below. Additionally, the Vendor should clearly identify and segregate the cost proposal from the technical proposal in a separately sealed envelope.

Bid Delivery Address and Fax Number:

Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130
Fax: 304-558-3970

A bid submitted in paper or facsimile form should contain the information listed below on the face of the submission envelope or fax cover sheet. Otherwise, the bid may be rejected by the Purchasing Division.

VENDOR NAME:

BUYER:

SOLICITATION NO.:

BID OPENING DATE:

BID OPENING TIME:

FAX NUMBER:

7. BID OPENING: Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by wvOASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

Bid Opening Date and Time:

Bid Opening Location: Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

8. ADDENDUM ACKNOWLEDGEMENT: Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

9. BID FORMATTING: Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.

10. ALTERNATE MODEL OR BRAND: Unless the box below is checked, any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.

[] This Solicitation is based upon a standardized commodity established under W. Va. Code § 5A-3-61. Vendors are expected to bid the standardized commodity identified. Failure to bid the standardized commodity will result in your firm's bid being rejected.

11. EXCEPTIONS AND CLARIFICATIONS: The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

12. COMMUNICATION LIMITATIONS: In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.

13. REGISTRATION: Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee, if applicable.

14. UNIT PRICE: Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.

15. PREFERENCE: Vendor Preference may be requested in purchases of motor vehicles or construction and maintenance equipment and machinery used in highway and other infrastructure projects. Any request for preference must be submitted in writing with the bid, must specifically identify the preference requested with reference to the applicable subsection of West Virginia Code § 5A-3-37, and must include with the bid any information necessary to evaluate and confirm the applicability of the requested preference. A request form to help facilitate the request can be found at: www.state.wv.us/admin/purchase/vrc/Venpref.pdf.

15A. RECIPROCAL PREFERENCE: The State of West Virginia applies a reciprocal preference to all solicitations for commodities and printing in accordance with W. Va. Code § 5A-3-37(b). In effect, non-resident vendors receiving a preference in their home states, will see that same preference granted to West Virginia resident vendors bidding against them in West Virginia. Any request for reciprocal preference must include with the bid any information necessary to evaluate and confirm the applicability of the preference. A request form to help facilitate the request can be found at: www.state.wv.us/admin/purchase/vrc/Venpref.pdf.

16. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES: For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37 and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women- owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.

17. WAIVER OF MINOR IRREGULARITIES: The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.

18. ELECTRONIC FILE ACCESS RESTRICTIONS: Vendor must ensure that its submission in wvOASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.

19. NON-RESPONSIBLE: The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1-5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform or lacks the integrity and reliability to assure good-faith performance.”

20. ACCEPTANCE/REJECTION: The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.5. and § 148-1-6.4.b.”

21. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

22. WITH THE BID REQUIREMENTS: In instances where these specifications require documentation or other information with the bid, and a vendor fails to provide it with the bid, the Director of the Purchasing Division reserves the right to request those items after bid opening and prior to contract award pursuant to the authority to waive minor irregularities in bids or specifications under W. Va. CSR § 148-1-4.6. This authority does not apply to instances where state law mandates receipt with the bid.

23. EMAIL NOTIFICATION OF AWARD: The Purchasing Division will attempt to provide bidders with e-mail notification of contract award when a solicitation that the bidder participated in has been awarded. For notification purposes, bidders must provide the Purchasing Division with a valid email address in the bid response. Bidders may also monitor *wvOASIS* or the Purchasing Division's website to determine when a contract has been awarded.

24. ISRAEL BOYCOTT CERTIFICATION: Vendor's act of submitting a bid in response to this solicitation shall be deemed a certification from bidder to the State that bidder is not currently engaged in, and will not for the duration of the contract, engage in a boycott of Israel. This certification is required by W. Va. Code § 5A-3-63.

GENERAL TERMS AND CONDITIONS:

1. CONTRACTUAL AGREEMENT: Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

2. DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.

2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.

2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.

2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.

2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.

2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.

2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

2.9. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. CONTRACT TERM; RENEWAL; EXTENSION: The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

[] Term Contract

Initial Contract Term: The Initial Contract Term will be for a period of _____. The Initial Contract Term becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and the Initial Contract Term ends on the effective end date also shown on the first page of this Contract.

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to _____ successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

[] Alternate Renewal Term – This contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

[] Fixed Period Contract: This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within _____ days.

☐ **Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within _____ days. Upon completion of the work covered by the preceding sentence, the vendor agrees that:

☐ the contract will continue for _____ years;

☐ the contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's Office (Attorney General approval is as to form only).

☐ **One-Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

☐ **Construction/Project Oversight:** This Contract becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and continues until the project for which the vendor is providing oversight is complete.

☐ **Other:** Contract Term specified in _____

4. AUTHORITY TO PROCEED: Vendor is authorized to begin performance of this contract on the date of encumbrance listed on the front page of the Award Document unless either the box for "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked in Section 3 above. If either "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked, Vendor must not begin work until it receives a separate notice to proceed from the State. The notice to proceed will then be incorporated into the Contract via change order to memorialize the official date that work commenced.

5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation/Award Document are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☐ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☐ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☐ **One-Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

☐ **Construction:** This Contract is for construction activity more fully defined in the specifications.

6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute a breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One-Time Purchase contract.

7. REQUIRED DOCUMENTS: All of the items checked in this section must be provided to the Purchasing Division by the Vendor as specified:

☐ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

☐

☐

☐

☐

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether that insurance requirement is listed in this section.

Vendor must maintain:

☐ **Commercial General Liability Insurance** in at least an amount of: _____ per occurrence.

☐ **Automobile Liability Insurance** in at least an amount of: _____ per occurrence.

☐ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: _____ per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

☐ **Commercial Crime and Third Party Fidelity Insurance** in an amount of: _____ per occurrence.

☐ **Cyber Liability Insurance** in an amount of: _____ per occurrence.

☐ **Builders Risk Insurance** in an amount equal to 100% of the amount of the Contract.

☐ **Pollution Insurance** in an amount of: _____ per occurrence.

☐ **Aircraft Liability** in an amount of: _____ per occurrence.

☐

☐

☐

☐

9. WORKERS' COMPENSATION INSURANCE: Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. VENUE: All legal actions for damages brought by Vendor against the State shall be brought in the West Virginia Claims Commission. Other causes of action must be brought in the West Virginia court authorized by statute to exercise jurisdiction over it.

11. LIQUIDATED DAMAGES: This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

☐ _____ for _____.

☐ Liquidated Damages Contained in the Specifications.

☐ Liquidated Damages Are Not Included in this Contract.

12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.

14. PAYMENT IN ARREARS: Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software maintenance, licenses, or subscriptions may be paid annually in advance.

15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia, included in the Contract, or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available. If that occurs, the State may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.

19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.

20. TIME: Time is of the essence regarding all matters of time and performance in this Contract.

21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code, or West Virginia Code of State Rules is void and of no effect.

22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.

28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

30. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/default.html>.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

34. VENDOR NON-CONFLICT: Neither Vendor nor its representatives are permitted to have any interest, nor shall they acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

Revised 11/1/2022

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

36. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

37. NO DEBT CERTIFICATION: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State. By submitting a bid, or entering into a contract with the State, Vendor is affirming that (1) for construction contracts, the Vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, neither the Vendor nor any related party owe a debt as defined above, and neither the Vendor nor any related party are in employer default as defined in the statute cited above unless the debt or employer default is permitted under the statute.

38. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

39. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

[] Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

[] Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.division@wv.gov.

40. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

41. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open hearth, basic oxygen, electric furnace, Bessemer or other steel making process.
- c. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
 1. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
 2. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

42. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a “substantial labor surplus area”, as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

43. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the Vendor must submit to the Agency a disclosure of interested parties prior to beginning work under this Contract. Additionally, the Vendor must submit a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-work interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

44. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

45. VOID CONTRACT CLAUSES: This Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

46. ISRAEL BOYCOTT: Bidder understands and agrees that, pursuant to W. Va. Code § 5A-3-63, it is prohibited from engaging in a boycott of Israel during the term of this contract.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) _____

(Address) _____

(Phone Number) / (Fax Number) _____

(Email address) _____

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

(Company)

(Signature of Authorized Representative)

(Printed Name and Title of Authorized Representative) (Date)

(Phone Number) (Fax Number)

(Email Address)

REQUEST FOR QUOTATION – CRFQ ADJ24*05
(2) Commercial Rooftop Air Conditioning Units-St. Albans Armory

SPECIFICATIONS

1. **PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Army National Guard's Division of Engineering & Facilities to establish a contract for the one-time purchase of two (2) TRANE Commercial Rooftop Air Conditioning Units (Intellipak), or equal, for the St. Albans Armory located at 610 Dames Street, St. Albans, WV 25177, per the attached specifications.

THIS CONTRACT IS AN EQUIPMENT ONLY PURCHASE, TO REPLACE EXISTING HVAC UNITS ON THE PROPERTY. NO LABOR IS INCLUDED OR REQUIRED.

2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.

2.1 **"Contract Item"** means TRANE Commercial Rooftop Air Conditioning Units (Midrange / 20-75 Ton), or equal.

2.2 **"Bid Evaluation Page"** means the page upon which Vendor should list its proposed price for the Desired Items in the manner requested by thereon. The Desired Item is either included on the last page of this RFQ or attached hereto as Exhibit A.

2.3 **"RFQ"** means the official RFQ published by the Purchasing Division.

3. **GENERAL REQUIREMENTS:**

3.1 **Mandatory Desired Item Requirements:** Desired Item must meet or exceed the mandatory requirements listed below.

3.1.1 **Contract Item #1: Two (2) Minimum 30-Ton Packaged Industrial Rooftop Air Conditioning Unit.** Vendor must provide two (2) minimum 30-Ton Package Commercial Rooftop Air Conditioning Units, TRANE Model Number SAHLF3040 (Intellipak), or equal. Including disconnect switch, powered convenience outlet, double wall construction, with hinged access doors, comparative enthalpy economizer, stainless steel drain pans, 0-10v GBAS Module (Generic Building Automation System) with stand-alone capability. Unit must be provided with supply fan and exhaust fans VFDs (Variable Frequency Drives).

3.1.2.1 Shall provide Cooling and High Modulating Gas Heat.

3.1.2.2 Must include 200 Volt-60 Hertz-3 Phase Motor.

3.1.2.3 Must include downflow supply and up flow return.

3.1.2.4 Must include wall mounted humidity sensors.

3.1.2.5 Must include grease lines.

REQUEST FOR QUOTATION – CRFQ ADJ24*05
(2) Commercial Rooftop Air Conditioning Units-St. Albans Armory

- 3.1.2.6 Must include standard aluminum condenser coil.
- 3.1.2.7 Must include Room Sensor with Time Override, Cancel Button, and Local Set Point Adjustments, also must include any accessories needed to run in stand-alone mode.
- 3.1.2.8 Shall be cULus (Tested to Canadian & U.S. Standards by Underwriters Laboratories) rated.
- 3.1.2.9 Must include non-fused unit disconnect switch with Conv Outlet Modulating Dehumidification (HGR).
- 3.1.2.10 Must include 0-100% Economizer with comparative enthalpy control VAV DTC Supply and Relief/Return VFD with Bypass Standard Ambient.
- 3.1.2.11 Must include an exhaust option of 100% with a minimum 3 HP with Statitrac, or equal to.
- 3.1.2.12 Must include an exhaust that is 10 HP drive FC.
- 3.1.2.13 Must include M8 High-Efficiency Transfer Air (TA).
- 3.1.2.14 Must include Intellipak Replacement Unit (IRU), or equal to, with Galvanized Differential Pressure (DP) with access doors.
- 3.1.2.15 Must include Lontalk Communication Interface, or equal to.
- 3.1.2.16 Must include spring isolators that provide supply, exhaust, and return.
- 3.1.2.17 Must include Factory Startup in base price to initiate equipment warranty.
- 3.1.2.18 Must include factory assigned design sequence.
- 3.1.2.19 Must include 2nd - 5th Year Replacement Compressor Warranty.
- 3.1.2.20 Must include Two (2)-Year Labor Warranty.

4. CONTRACT AWARD

4.1 Contract Award: The Contract is intended to provide the agency with a purchase price for the Desired Items. The Contract shall be awarded to the Vendor that provides the Desired Items meeting the required specifications for the lowest overall total cost as shown on the Pricing Pages.

4.2 Pricing Page: Vendor should complete the Pricing Page by entering the unit price for each of the desired items and extending the unit price by the quantity noted to obtain the line-item price. The total of the line items should be noted at the bottom of the bid schedule for the total bid price. Vendor should complete the Pricing Page in full as failure to complete the Pricing Page in its entirety may result in Vendor's bid being disqualified.

Notwithstanding the foregoing, the Purchasing Division may correct errors as it deems appropriate. Vendor should enter the information into the Bid

REQUEST FOR QUOTATION – CRFQ ADJ24*05
(2) Commercial Rooftop Air Conditioning Units-St. Albans Armory

Evaluation Page to prevent errors in the evaluation.

5. PAYMENT:

5.1 Payment: Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia. Methods of acceptable payment must include the West Virginia Purchasing Card. Payment in advance is not permitted under this Contract.

6. DELIVERY AND RETURN:

6.1 Shipment and Delivery: Vendor shall ship the Desired Items immediately after being awarded this Contract and receiving a purchase order.

6.2 Late Delivery: The Agency placing the order under this Contract must be notified in writing if the shipment of the Desired Items will be delayed for any reason. Any delay in delivery that could cause harm to an Agency will be grounds for cancellation of the Contract, and/or obtaining the Desired Items from a third party.

Any Agency seeking to obtain the Desired Items from a third party under this provision must first obtain approval of the Purchasing Division.

6.3 Delivery Payment/Risk of Loss: Vendor shall deliver the Desired Items F.O.B. destination to the Agency's location.

6.4 Return of Unacceptable Items: If the Agency deems the Desired Items to be unacceptable, the Desired Items shall be returned to Vendor at Vendor's expense and with no restocking charge. Vendor shall either make arrangements for the return within five (5) days of being notified that items are unacceptable or permit the Agency to arrange for the return and reimburse Agency for delivery expenses. If the original packaging cannot be utilized for the return, Vendor will supply the Agency with appropriate return packaging upon request. All returns of unacceptable items shall be F.O.B. the Agency's location. The returned product shall either be replaced, or the Agency shall receive full credit or refund for the purchase price, at the Agency's discretion.

6.5 Return Due to Agency Error: Items ordered in error by the Agency will be returned for credit within 30 days of receipt, F.O.B. Vendor's location. Vendor shall not charge a restocking fee if returned products are in a resalable condition. Items shall be deemed to be in a resalable condition if they are unused and in the original packaging. Any restocking fee for items not in a resalable condition shall be the lower of the Vendor's customary restocking fee or 5% of the total invoiced value of the returned items.

REQUEST FOR QUOTATION – CRFQ ADJ24*05
(2) Commercial Rooftop Air Conditioning Units-St. Albans Armory

7 VENDOR DEFAULT:

7.1. The following shall be considered a vendor default under this Contract.

- 7.1.1** Failure to provide Contract Items in accordance with the requirements contained herein.
- 7.1.2** Failure to comply with other specifications and requirements contained herein.
- 7.1.3** Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.
- 7.1.4** Failure to remedy deficient performance upon request.

7.2 The following remedies shall be available to Agency upon default.

- 7.2.1** Immediate cancellation of the Contract.
- 7.2.2** Immediate cancellation of one or more release orders issued under this Contract.
- 7.2.3** Any other remedies available in law or equity.

Exhibit A Pricing Page
(2) Commercial Rooftop Air Conditioning Units

EHXIBIT A: PRICING PAGE

ITEM	DESCRIPTION	Each	UNIT PRICE	Extended Total
1	Minimum 30-Ton Packaged Industrial Rooftop Air Conditioning Unit, Trane Model SAHLF3040 (Intellipak), or equal	2	\$106,300.00	\$212,600.00
	Brand Bid: TRANE			
		Grand Total		\$212,600.00
	Vendor Name: Trane US Inc			
	Address: 2303 Trane Dr, Roanoke, VA 24017			
	Phone: 304-546-6294			
	Authorized Signature:		Date: 09/06/2023	
	Failure to use this bid form may result in disqualification.			



Submittal

Prepared For:
St Albans Armory

Date: September 06, 2023

Job Name:
St Albans Armory RTU Replacement

Trane U.S. Inc. is pleased to provide the following submittal for your review and approval.

Product Summary

Qty Product

2 Commercial Rooftop Air Conditioning Units (Midrange)

Kenneth Young
Trane U.S. Inc.

The attached information describes the equipment we propose to furnish for this project and is submitted for your approval.

Submittal acceptance and return is a critical step, so please ensure submittals are returned with approval to release to production within 14 days of submittal date.

Product performance and submittal data is valid for a period of 6 months from the date of submittal generation. If six months or more has elapsed between submittal generation and equipment release, the product performance and submittal data will need to be verified. It is the customer's responsibility to obtain such verification.

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Tag Data - Commercial Rooftop Air Conditioning Units (Midrange) (Qty: 2)

Item	Tag(s)	Qty	Description	Model Number
A1	C11B00481, C11B00482	2	IPAK 1 20-75T Packaged Rooftop (IP1SM)	SFHMF30EP*36C4AD9001DCC0000000RW 078A0

Product Data - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482**

Standard Ship Cycle
 Cooling / Gas Heat
 Development Sequence M
 30 Ton Air Cooled
 200/60/3
 High Modulating Gas Heat
 Design Sequence - Factory Assigned
 100% Exhaust - 3 HP w/Statitrac
 600 RPM
 M8 Hi-Eff TA / None
 10 HP FC
 FC Fan
 1000 RPM
 0-100% Economizer
 VAV DTC Supply and Relief/Return VFD w Bypass
 No Accessory Panel
 Standard Ambient
 cULus Approval
 Unit Mounted Disconnect w Conv Outlet
 Modulating Dehumidification (HGR)
 Economizer Control w Comparative Enthalpy
 Standard Damper
 Standard Unit
 Standard Aluminum Condenser Coil
 Non Rapid Restart
 Grease Lines
 IRU w Galvanized DP/Access Doors
 Lontalk Communication Interface
 Spring Isolators - Supply/Ex/Return
 Downflow supply/Upflow Return
 Start - Up
 Standard Unit
 100/76/62/38/24
 Room sensor with override button
 Wall mounted humidity sensor
 Year 2 Parts warranty less compr
 2nd-5th Year compressor warranty
 1st Year Labor Warranty
 Year 2 Labor Warranty

Performance Data - IPAK 1 20-75T Packaged Rooftop (IP1SM)

Tags	C11B00481, C11B00482
Supply Airflow (cfm)	9000
Supply Duct Static Pressure (in H2O)	1.500
Return Duct Static Pressure (in H2O)	0.500
Relief/Return Type	Relief Fan
Relief/Return Airflow (cfm)	7500
Relief/Return Break horse power (bhp)	1.39
Relief/Return fan rpm (rpm)	576
Cooling EDB (F)	80.00
Cooling EWB (F)	67.00
Ambient DB (F)	95.00
Elevation (ft)	0.00
Entering Dry Bulb (in HGRH) (F)	73.00
Entering Wet Bulb (in HGRH) (F)	64.00
Ambient DB (in HGRH) (F)	75.00
Heating Entering Air Temperature (F)	60.00
Baud Rate (Number)	76800.00
Address (Number)	0.00
Leaving Coil Dry Bulb (F)	54.20
Leaving Coil Wet Bulb (F)	54.13
Leaving Unit Dry Bulb (F)	58.54
Leaving Unit Wet Bulb (F)	55.90
Gross Cooling Capacity (MBh)	340.36
Gross Sensible Capacity (MBh)	241.19
Gross Latent Capacity (MBh)	99.18
Net Total Capacity (MBh)	313.91
Net Sensible Capacity (MBh)	214.74
Net Sensible Heat Ratio (%)	68.41
EER @ AHRI (EER)	10.5
IEER @ AHRI (EER)	14.8
Height (in)	87.000
Width (in)	93.500
Overall length (in)	289.375
Footprint Length (in)	0.000
Compressor 1 RLA (A)	27.70
Compressor 2 RLA (A)	40.30
Compressor 3 RLA (A)	40.30
Condenser Fan 1 FLA (A)	5.40
Condenser Fan 2 FLA (A)	5.40
Supply Fan FLA (A)	29.50
Other FLA (A)	10.00
Relief FLA (A)	9.70
Minimum Circuit Ampacity (A)	179.00
Maximum Overprotection (A)	200.00
Disconnect Switch Size (A)	250.00
Refrigerant Charge Circuit 1 (lb)	38.0
Input Heating Capacity (MBh)	500.00
Output Heating Capacity (MBh)	405.00
Output Heating Capacity w Fan (MBh)	421.06
Heating Leaving Air Temperature (F)	101.85
Heating Delta T (F)	41.85
Reheat Mode Leaving Unit Temp (F)	0.00
Reheat Mode Latent Capacity (MBh)	356.89
Reheat Coil Temperature Rise (F)	-54.20

Tags	C11B00481, C11B00482
Total Static Pressure (in H2O)	2.830
Supply Fan Operating Speed (rpm)	1029
Total Supply BHP (bhp)	9.31
Supply Fan Motor Heat (MBh)	16.06
Condenser Coil Face Area (sq ft)	58.00
Condenser Coil Rows (Number)	1.00
Condenser Fan Count (Number)	2.00
Condenser Fan VFD Count (Number)	0.00
Condenser Fan Size (in)	30.000
Condenser Fan HP (hp)	1.500
Gas Pipe Connection Size (in)	0.750
Minimum Gas Inlet Pressure (in H2O)	7.000
Maximum Gas Inlet Pressure (in H2O)	14.000
Gas Heat Steady State Efficacy (%)	81.00
Evaporative Coil Rows (Number)	5.00
Evaporative Coil Face Area (sq ft)	25.50
Evaporative Coil Face Velocity (ft/min)	353
Supply Fan Count (Number)	2.00
Supply Fan Motor Count (Number)	1.00
VFD Count (Number)	1.00
Supply duct - 63 Hz (dB)	92
Supply duct - 125 Hz (dB)	91
Supply duct - 250 Hz (dB)	82
Supply duct - 500 Hz (dB)	78
Supply duct - 1000 Hz (dB)	70
Supply duct - 2000 Hz (dB)	65
Supply duct - 4000 Hz (dB)	58
Supply duct - 8000 Hz (dB)	51
Return duct - 63 Hz (dB)	84
Return duct - 125 Hz (dB)	77
Return duct - 250 Hz (dB)	73
Return duct - 500 Hz (dB)	71
Return duct - 1000 Hz (dB)	67
Return duct - 2000 Hz (dB)	62
Return duct - 4000 Hz (dB)	59
Return duct - 8000 Hz (dB)	60
Outdoor noise - 63 Hz (dB)	105
Outdoor noise - 125 Hz (dB)	103
Outdoor noise - 250 Hz (dB)	95
Outdoor noise - 500 Hz (dB)	92
Outdoor noise - 1000 Hz (dB)	89
Outdoor noise - 2000 Hz (dB)	88
Outdoor noise - 4000 Hz (dB)	82
Outdoor noise - 8000 Hz (dB)	76
Total Installed Weight (lb)	6675.3
Center of Gravity - X Dimension (ft)	12.96
Center of Gravity - Y dimension (ft)	3.74
Installed Point Load Weight 1 (lb)	836.0
Installed Point Load Weight 2 (lb)	812.7
Installed Point Load Weight 3 (lb)	844.0
Installed Point Load Weight 4 (lb)	820.7
Installed Point Load Weight 5 (lb)	850.8
Installed Point Load Weight 6 (lb)	827.5
Installed Point Load Weight 7 (lb)	853.5

Tags	C11B00481, C11B00482
Installed Point Load Weight 8 (lb)	830.1
Installed point load - 1X (ft)	0.33
Installed point load - 2X (ft)	10.33
Installed point load - 3X (ft)	18.83
Installed point load - 4X (ft)	22.08
Installed point load - 1Y (ft)	0.33
Installed point load - 2Y (ft)	7.25
Filter Face Area (sq ft)	44.40
Filter Face Velocity (ft/min)	203
System Power (kW)	36.76
SCCR Rating (A)	5000.00
Compressor Count (Number)	3.00
Minimum Supply Fan Hertz (Hz)	22.02
Design Supply Fan Hertz (Hz)	60.00
Replication Run ()	274

Mechanical Specifications - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482****General**

Units shall be specifically designed for outdoor rooftop installation on a roof curb and be completely factory assembled and tested, piped, internally wired, fully charged with R-410A compressor oil, factory run tested and shipped in one piece. Units shall be available for direct expansion cooling only, or direct expansion cooling with natural gas, electric, hot water or steam heating. Filters, outside air system, exhaust air system, optional non-fused disconnect switches and all operating and safety controls shall be furnished factory installed. All units shall be UL listed to US and Canadian Safety Standards. Cooling capacity shall be rated in accordance with AHRI Standard 360. All units shall have decals and tags to aid in service and indicate caution areas. Electrical diagrams shall be printed on long life water resistant material and shall ship attached to control panel doors.

Casing

Exterior panels shall be zinc-coated, galvanized steel painted with a slate gray air-dry finish durable enough to withstand a minimum of 672 hours consecutive salt spray application in accordance with standard ASTM B117. Screws shall be zinc-plus-zinc chromate coated. Heavy gauge steel hinged access panels with tiebacks to secure door in open position shall provide access to filters and heating sections. Refrigeration components, supply air fan and compressor shall be accessible through removable panels as standard. Unit control panel, filter section, and gas heating section shall be accessible through hinged access panels as standard. Optional double wall construction hinged access doors shall provide access to filters, return/ exhaust air, heating and supply fan section. All access doors and panels shall have neoprene gaskets. Interior surfaces or exterior casing members shall have 1/2" fiberglass insulation. Unit base shall be watertight with heavy gauge formed load-bearing members, formed recess and curb overhang. Unit lifting lugs shall accept chains or cables for rigging. Lifting lugs shall also serve as unit tie down points.

Compressors

The Trane Scroll compressor shall be industrial grade, direct drive 3600 RPM maximum speed scroll type. The motor shall be suction gas-cooled hermetic design. Compressor shall have centrifugal oil pump with dirt separator, oil sight glass, and oil charging valve. Compressor shall also be provided with thermostatic motor winding temperature control to protect against excessive motor temperatures resulting from over-/under-voltage or loss of charge, high and low pressure cutouts, and reset relay.

Power Supplies

The 20 to 75 tons air-cooled rooftops shall be available with 200, 230, 460, and 575 voltage power supplies.

Modulating Hot Gas Reheat Control

A reheat condenser coil shall be factory installed downstream of the unit evaporator coil. Modulating electronic valves shall control the flow of refrigerant between the indoor reheat and outdoor condensers in response to the unit discharge air temperature in order to dehumidify the space. The modulating valves shall always apply to circuit 1. Modulating reheat valves shall be electronically controlled by the Symbio® 800 unit controller. This fully integrates reheat valve control with unit operation to ensure optimal equipment reliability and efficiency. Modulating reheat valves shall be stepper type valves for precise refrigerant control. Valve position shall be displayed at the user interface to assist field diagnostics.

Air-Cooled Condenser Coil

Condenser coils shall have all aluminum microchannel coils. All coils shall be leak tested at the factory to ensure pressure integrity. The condenser coil shall be pressure tested to 650 psig. Subcooling circuit(s) shall be provided as standard.

The High Efficiency Condenser Coil option shall include additional rows of coil that provide increased efficiency compared to standard coils.

Air-Cooled Condenser Fans and Motors

All condenser fans shall be vertical discharge, direct drive fans, statically balanced, with aluminum blades and zinc plated steel hubs. Condenser fan motors shall be three-phase motors with permanently lubricated ball bearings, built-in current and thermal overload protection and weather-tight slingers over motor bearings. Modulating condenser fans shall be provided on eFlex units.

Supply Fan

Supply fan motors shall be open drip-proof. All supply fans shall be dynamically balanced in factory. Supply fan shall be test run in unit and shall reach rated rpm.

20 to 75 Tons with Forward-Curved Supply Fan

Supply fans shall have two double-inlet, forward-curved fans mounted on a common shaft with fixed sheave drive. Fans shall be factory-tested to reach rated rpm before the fan shaft passes through first critical speed. Fan shaft shall be mounted on two grease lubricated ball bearings designed for 200,000 hours average life. Fan motor and fan assembly shall be mounted on common base to allow consistent belt tension with no relative motion between fan and motor shafts. Entire assembly shall be completely isolated from unit and fan board by double deflection rubber-in-shear isolators, or by optional 2" deflection spring isolation.

Variable Air Volume Supply Air Temperature Control with Variable Frequency Drives and Bypass

Bypass control shall provide full nominal airflow in the event of drive failure.

Electrical

Unit shall be completely factory wired with necessary control and contactor pressure lugs or terminal block for power wiring. Units shall provide an option for a non-fused disconnect with external handle for safety.

Unit Voltag

Rooftops shall be available with 200, 230, 460, and 575 voltage, 3 phase, 60 Hz power supplies.

Unit Interrupt Rating (Short Circuit Current Rating-SCCR)

A standard SCCR of 5,000 amps shall be applied to the unit enclosure. A high fault SCCR option is available that provides a 65,000A SCCR for 200V, 230V, and 460V units; 35,000A SCCR for 575V units.

Phase Monitor

Standard on 20 to 75 tons. Phase monitor shall protect 3-phase equipment from phase loss, phase reversal and phase imbalance. Any fault condition shall produce a Failure Indicator LED and send the unit into an auto stop condition. cULus approved.

Non-Fused Disconnect

An external handle mounted on the control box door shall be provided to disconnect unit power with the control box door closed for safety.

Symbio 800 Controller

The Symbio 800 controller is an application-specific, programmable controller that is factory installed and designed to control packaged HVAC equipment. A 7" user interface features a touch-sensitive color screen that provides facility managers with at-a-glance operating status, performance monitoring, scheduling changes and operating adjustments. Other advanced features include automated controller backup and optional features such as secure remote connectivity, wireless building communications, mobile device connectivity and custom programming with expandable I/O.

Trane LonTalk® Communication Interface Module

The LonTalk module shall provide an interface to a Tracer building automation system or other control system that supports LonTalk and shall be factory installed, allowing for control and monitoring of the unit through a RS485, two-wire communication link. Requires an additional LonTalk® Communication Kit be installed.

General Filters

Filter options shall mount integral within unit and be accessible by hinged access panels.

High Efficiency Throwaway Option, MERV 8

Shall be two-inch high efficiency media filters with average dust spot efficiency of 25-35 percent and an average arrestance in excess of 90 percent when tested in accordance with ASHRAE 52-76

Gas-Fired Heating Option

All gas-fired units shall be completely assembled, have a wired, gas-fired heating system integral within unit, and fire tested prior to shipment. Units shall be cULus approved specifically for outdoor applications downstream from refrigerant cooling coils.

All gas heaters shall have 81% steady state efficiency, meeting the 2023 Department of Energy efficiency code. Gas-fired heating system control shall be fully integrated with the unit controls. Gas safety controls shall include electronic flame sensing capability, which proves combustion air prior to ignition sequence and during operation. The ignition

sequence shall include a pre-purge cycle. Direct spark ignition shall be provided on all heat exchangers; ultra modulating heaters shall have direct spark ignition provided to the pilot line.

A three minute delay shall be provided between first and second stage gas valve operation on two-stage heaters.

Heat exchangers shall be drum and tube design with pre-mix burners. Free-floating design shall eliminate expansion and contraction stresses and noises. Heating system shall incorporate forced draft fans and include a chimney that exhausts away from the air intake. All modulating gas heaters shall be made from grades of stainless steel suitable for condensing situations. Gasketed cleanout plate shall be provided for maintenance and inspection of tubes/turbulators.

All gas piping shall be threaded connection with a pipe cap provided. Gas supply connection shall be provided through the side or bottom of unit. Heat exchanger shall be factory pressure and leak tested.

Relief Air

Return air options shall include no relief, barometric relief, 100 percent modulating exhaust fan and 100 percent modulating exhaust fan with direct space building pressurization control. Exhaust motors shall be open drip-proof fan cooled. All 60 Hz motors meet the Energy Independence and Security Act of 2007 (EISA). All 50 Hz exhaust motors meet the U.S. Energy Policy Act of 1992 (EPACT).

Modulating Relief Fan Option

Two, double-inlet, forward-curved fans shall be mounted on a common shaft with fixed sheave drive. All fans shall be dynamically balanced and tested in factory before being installed in unit. Exhaust fan shall be test run as part of unit final run test. Unit shall reach rated rpm before fan shaft passes through first critical speed. Fan shaft shall be mounted on two grease lubricated ball bearings designed for 200,000-hour average life.

Optional extended grease lines shall be provided to allow greasing of bearings from unit filter section. Fan motor and assembly shall be mounted on common base to allow consistent belt tension with no relative motion between fan and motor shafts. Entire assembly shall be completely isolated from unit and fan board by spring isolation on motor sizes larger than 5 hp.

With Statitrac™ Enabled

For VAV rooftops, the modulating relief discharge dampers (or VFD) shall be modulated in response to building pressure. A differential pressure control system, (Statitrac™), shall use a differential pressure transducer to compare indoor building pressure to outdoor ambient atmospheric pressure. The FC exhaust fan shall be turned on when required to lower building static pressure setpoint.

With Statitrac™ Disabled

Relief dampers at unit outlet shall modulate relief airflow in response to OA damper position.

0-100 Percent Modulating Economizer Option

Economizer option shall be operated through the primary temperature controls to automatically utilize outside air for "free" cooling. Automatically modulated return and outside air dampers shall maintain proper temperature in the conditioned space. Economizer shall be equipped with an automatic lockout when the outdoor high ambient temperature is too high for proper cooling. Minimum position control shall be standard and adjustable at the user interface or through the building management system. A spring return motor shall ensure closure of OA dampers during unit shutdown or power interruption. Mechanical cooling shall be available to aid the economizer mode at any ambient. Standard economizer dampers leakage rate shall be 2.5 percent of nominal airflow (400 cfm/ton) at 1 inch wg. static pressure.

Economizer Control with Comparative Enthalpy

Two enthalpy sensors shall be provided to compare total heat content of the indoor air and outdoor air to determine the most efficient air source when economizing.

Powered Convenience Outlet

A 15A, 115V Ground Fault Interrupter convenience outlet shall be factory installed. It shall be wired and powered from a factory mounted transformer. Unit-mounted, non-fused disconnect with external handle shall be furnished with factory powered outlet.

Extended Grease Lines

Lines shall allow greasing of supply and relief fan bearings through the filter access door

IntelliPak Replacement Unit (IRU)

The IntelliPak replacement solution shall include a condenser base pan, strengthening of the condenser section with welded reinforcement of condenser base rail, as well as welded integral supports to the condenser base. This additional strength shall allow the reuse of the existing pedestal as well as any Trane® full perimeter curb and reduce installation risk and labor. Also optional with stainless steel.

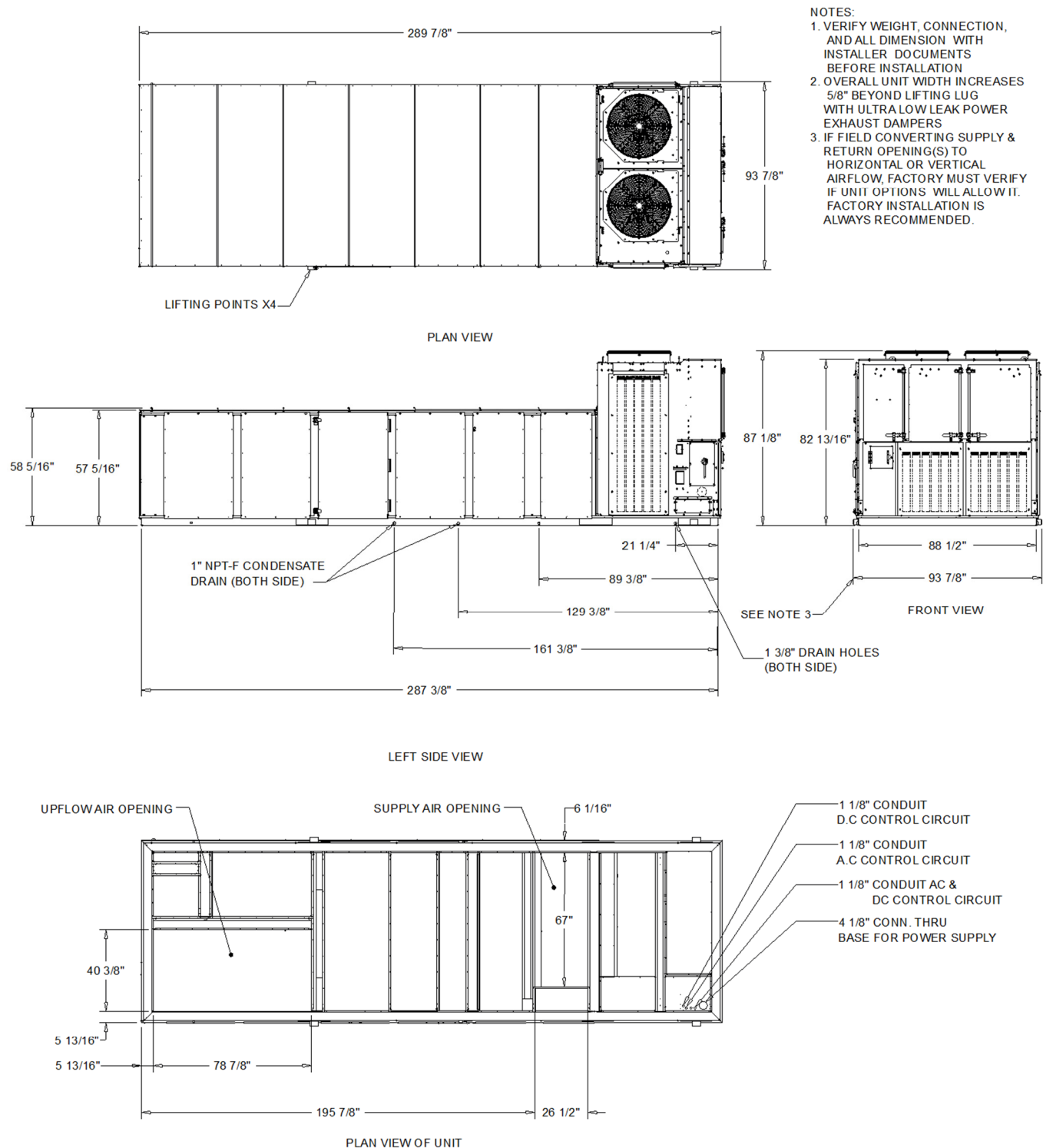
Two-Inch Spring Isolators

Supply and relief/return fan (if applicable) assemblies shall be isolated with two-inch nominal deflection to reduce transmission of vibrations (standard feature on 90 to 130 tons).

Certified AHRI Performance

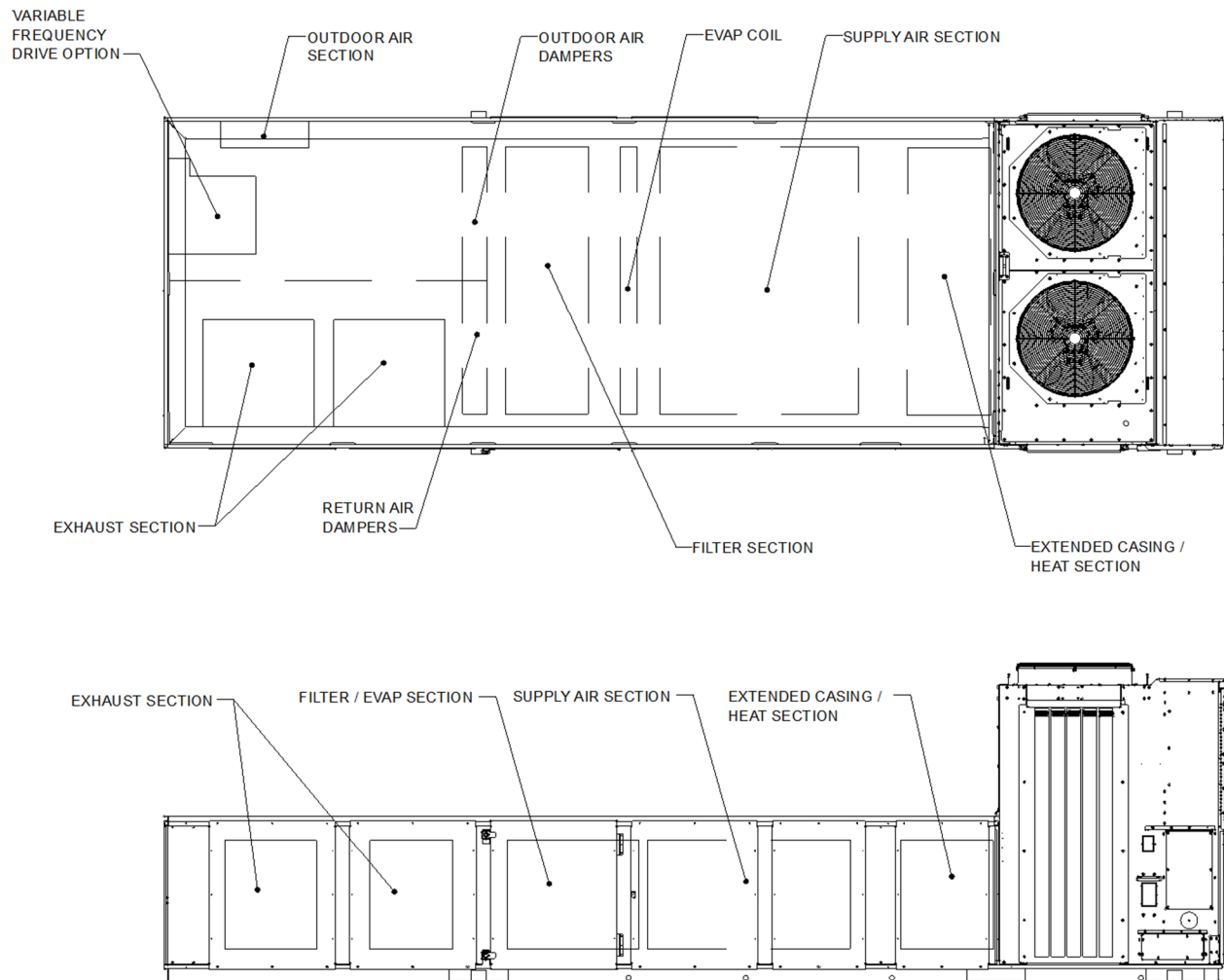
Packaged Rooftop units cooling, heating capacities and efficiencies shall be rated within the scope of the Air-Conditioning, Heating & Refrigeration Institute (AHRI) Certification Program and display the AHRI Certified® mark as a visual confirmation of conformance to the certification sections of AHRI Standard 340-360 (I-P) and ANSI Z21.47 and 10 CFR Part 431 pertaining to Commercial Warm Air Furnaces. The applications in this catalog specifically excluded from the AHRI certification program are:

- Ventilation modes
- Heat Recovery
- Units larger than nominal 63 tons

Dimensional Drawings - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482**

30 TON COOLING AND GAS HEAT UNIT

DIMENSION DRAWING

Dimensional Drawings - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482**

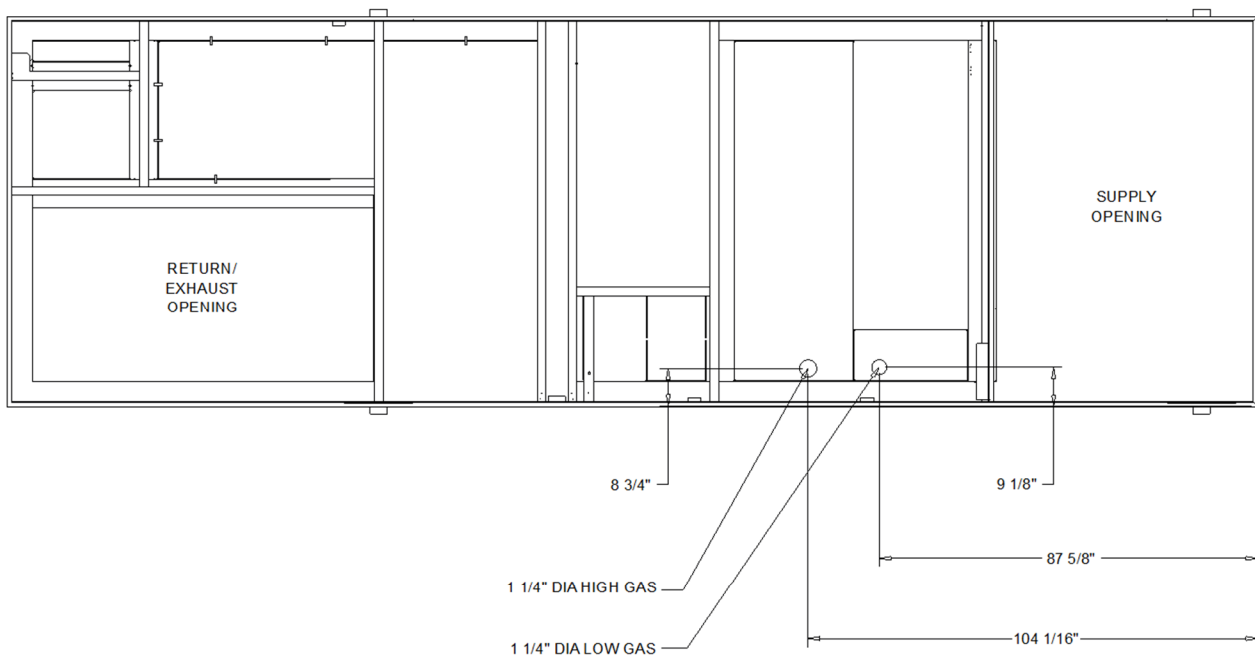
20 - 30 TON COOLING EXTENDED CASING TYPICAL LAYOUT

DIMENSION DRAWING

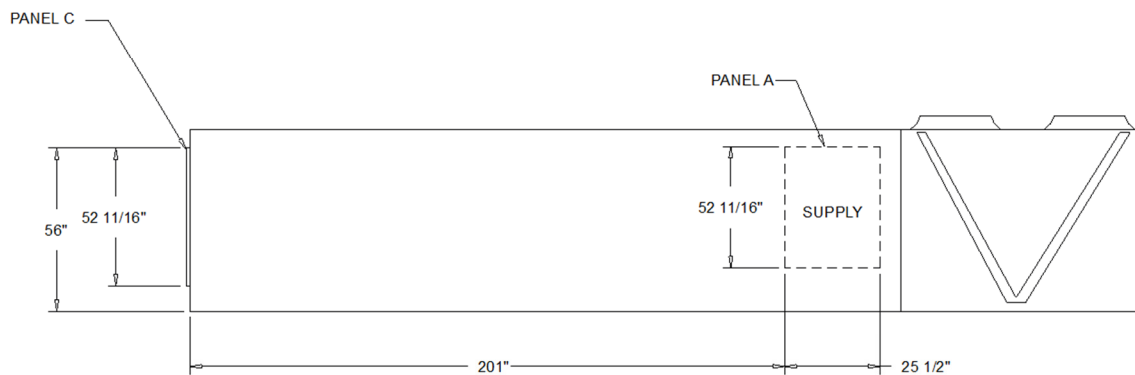
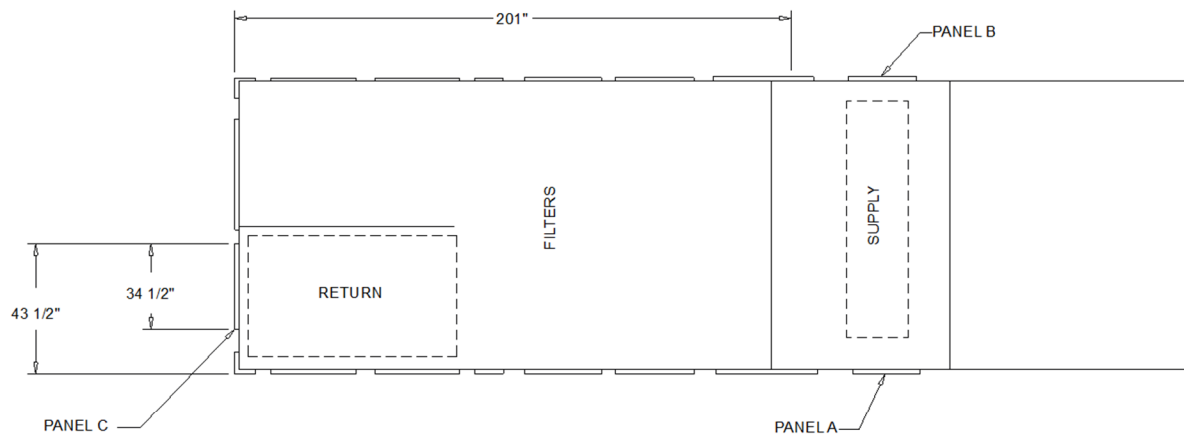
Dimensional Drawings - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482**

NOTES:

1. VERIFY ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION



30 GAS CONNECTION
PLAN VIEW OF UNIT

Dimensional Drawings - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482****NOTES:**

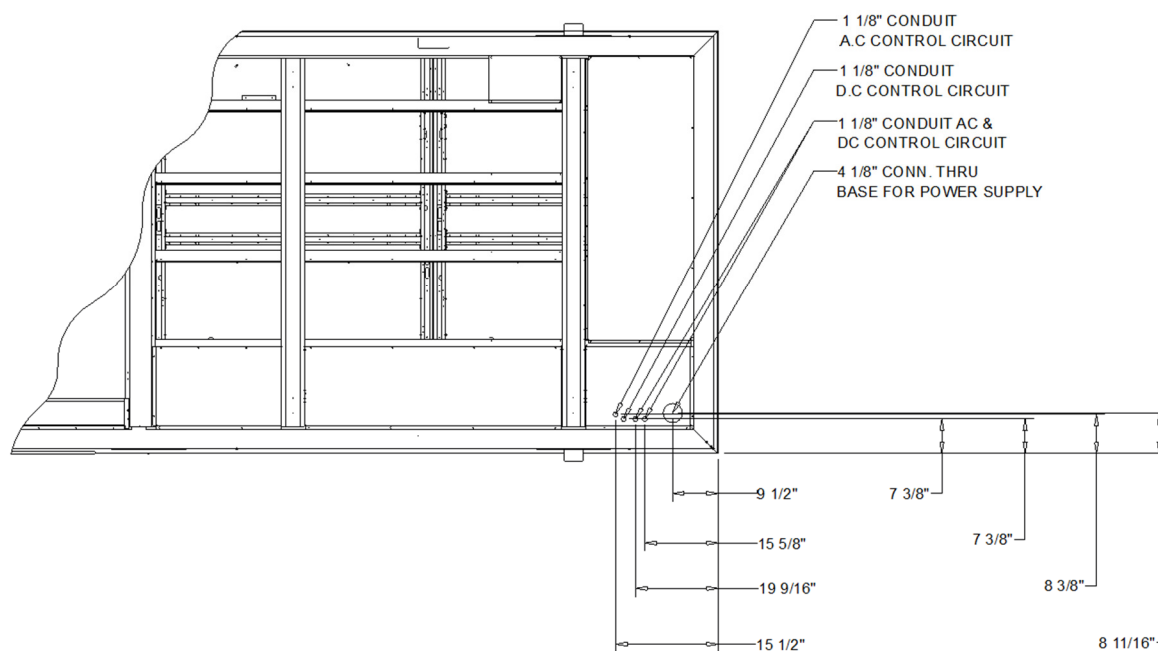
1. FOR HORIZONTAL DISCHARGE ON SFHM, SLHM AND SSHM UNITS, ONLY THE PANEL B CAN BE REMOVED. PANEL A CANNOT BE USED DUE TO THE LOCATION OF THE HEATING
2. ADD AN EXTRA 0.20 - INCHES PRESSURE DROP TO THE SUPPLY EXTERNAL STATIC ACCOUNT FOR THE EXTRATURN THE AIR IS MAKING.
3. THE OPENINGS ALL HAVE A 1.25-INCH LIP AROUND THE PERIMETER TO FACILITATE DUCTWORK ATTACHMENT
4. IF EXHAUST/RETURN FANS ARE BEING USED, PROVISION SHOULD BE MADE FOR ACCESS TO THE EXHAUST COMPONENTS, SINCE THE ACCESS DOOR IS NOW BEING USED AS RETURN
5. USE THE DIMENSION PROVIDED AND THE SUPPLY CFM TO CALCULATE THE VELOCITY (FT/MIN) THOUGHT THE OPENINGS TO BE SURE THEY ARE ACCEPTABLE COILS.

20 TON HORIZONTAL DISCHARGE PANEL

DIMENSION DRAWING

Dimensional Drawings - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482****NOTES:**

1. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION
WITH INSTALLER DOCUMENTS BEFORE INSTALLATION

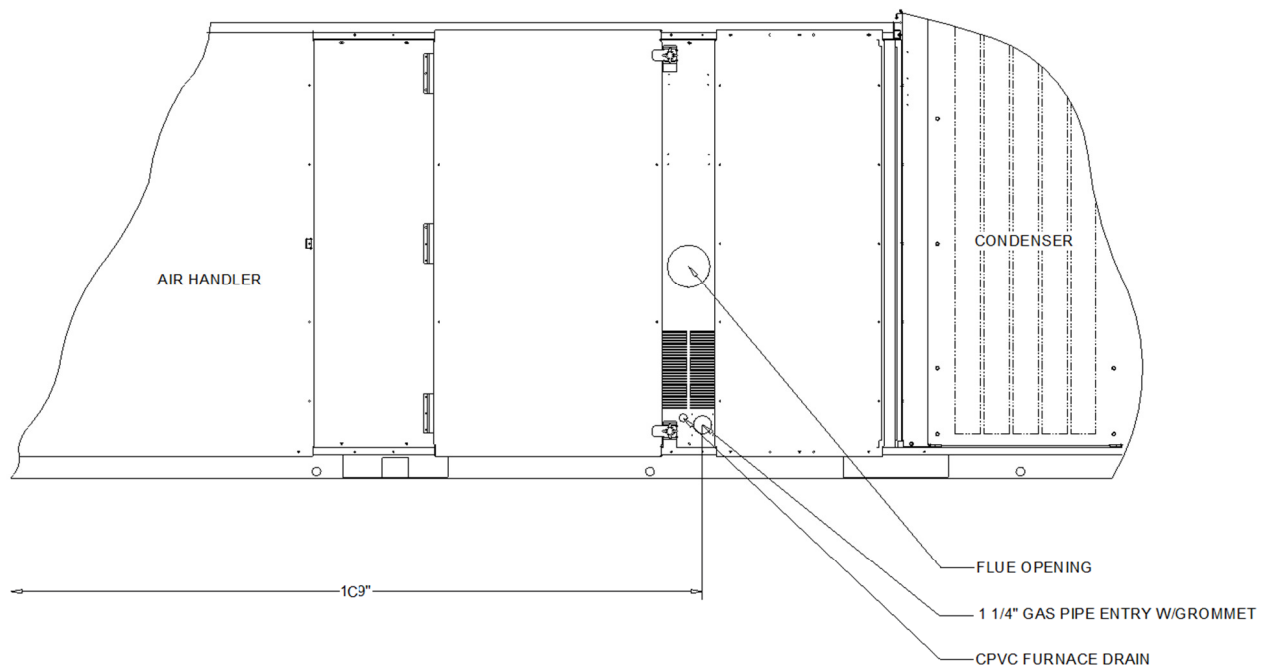


30 TON POWER AND CONTROL OPENINGS

DIMENSION DRAWING

Dimensional Drawings - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482****NOTES:**

1. VERIFY ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION

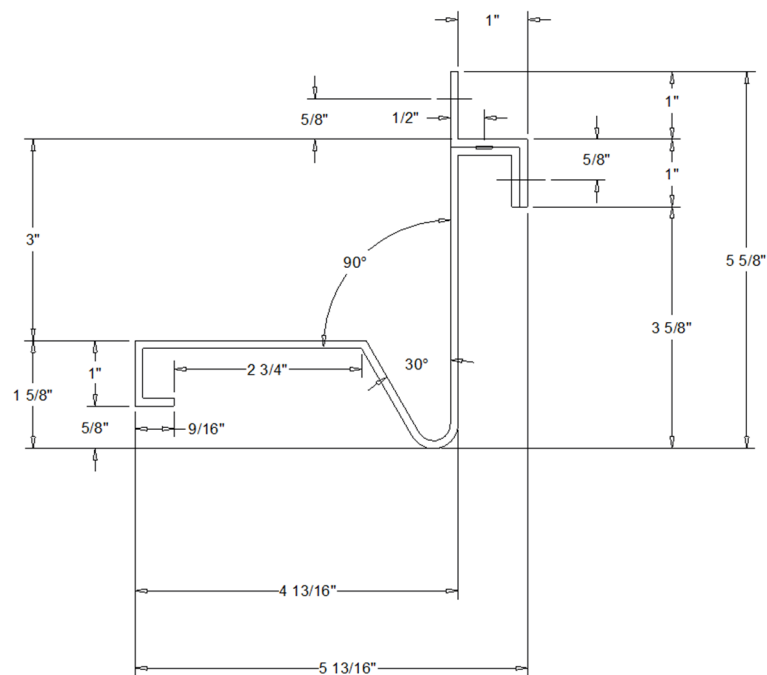


PACKAGED GAS HEAT AND FLUE

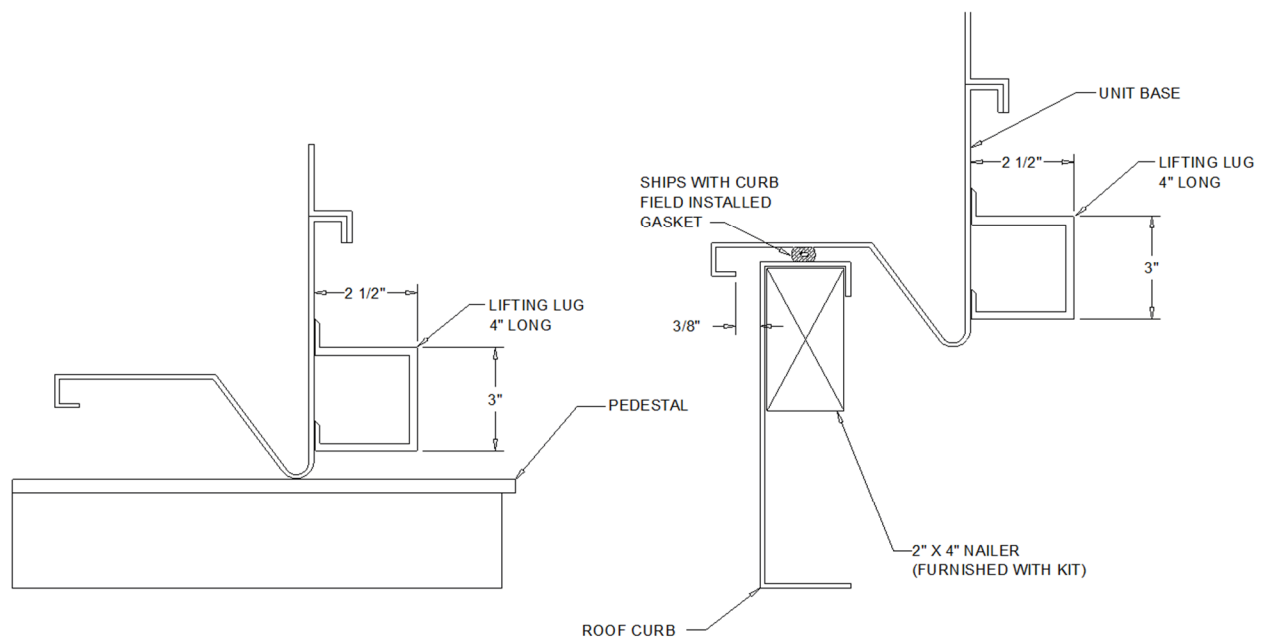
DIMENSION DRAWING

Dimensional Drawings - Commercial Rooftop Air Conditioning Units (Midrange)

Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482



TYPICAL PEDESTAL AND BASE
DIMENSION DRAWING



TYPICAL PEDESTAL AND BASE PAN DETAIL
DETAIL

TYPICAL ROOF CURB AND BASE PAN DETAIL
DETAIL

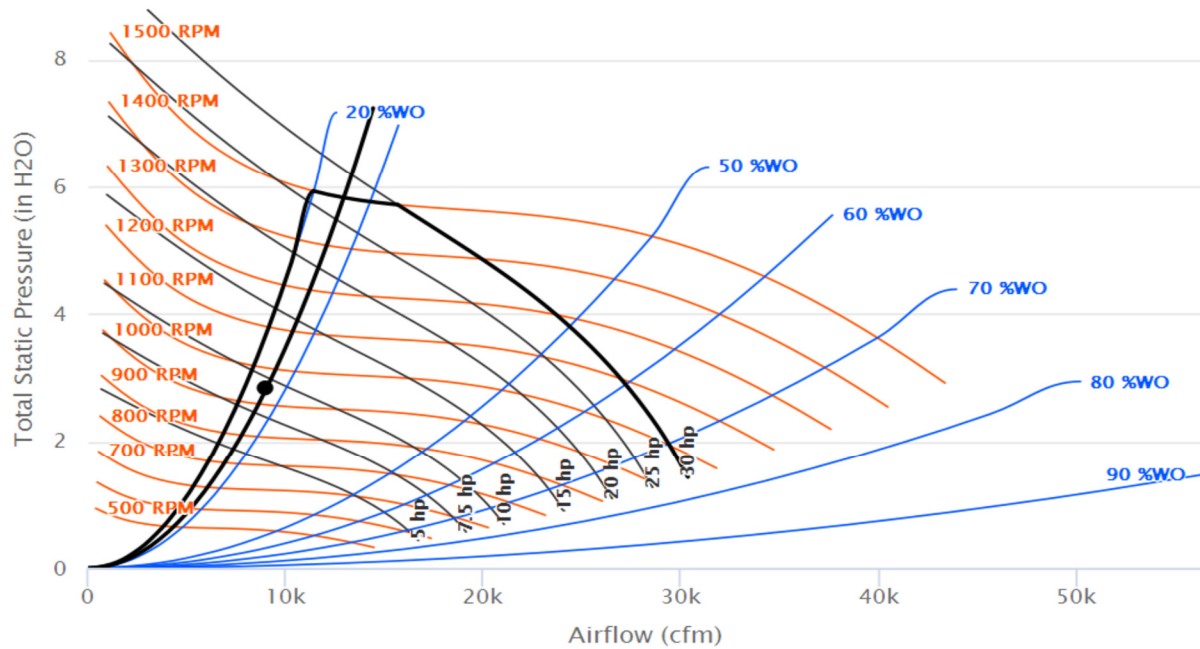
Fan Curve - Commercial Rooftop Air Conditioning Units (Midrange)

Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482

Fan Details

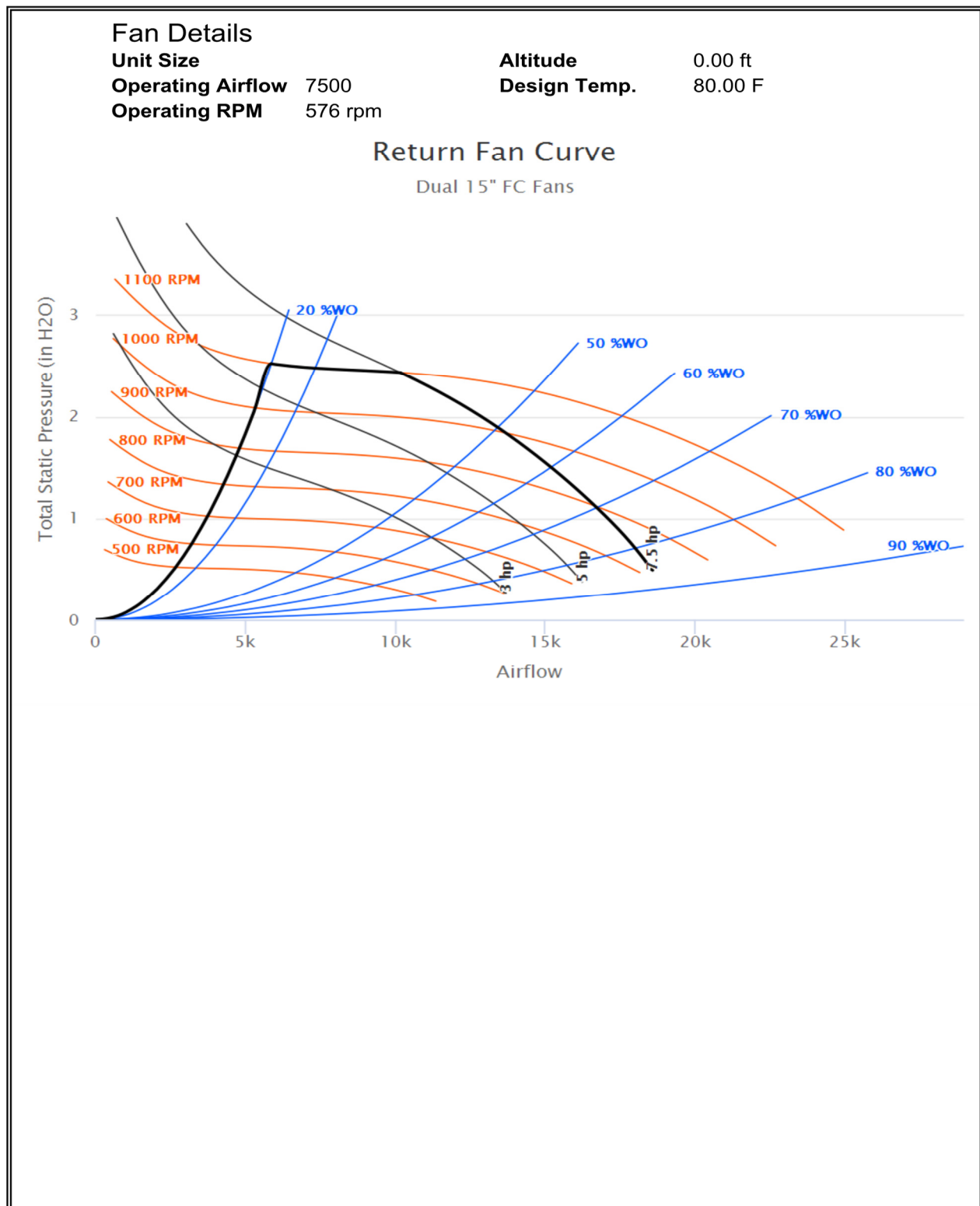
Unit Size		Operating Brake Power	9.31 bhp
Operating Airflow	9,000 cfm	Altitude	0.00 ft
Operating Static Pressure	2.830 in H2O	Design Temp.	80.00 F
Operating RPM	1,029 rpm		

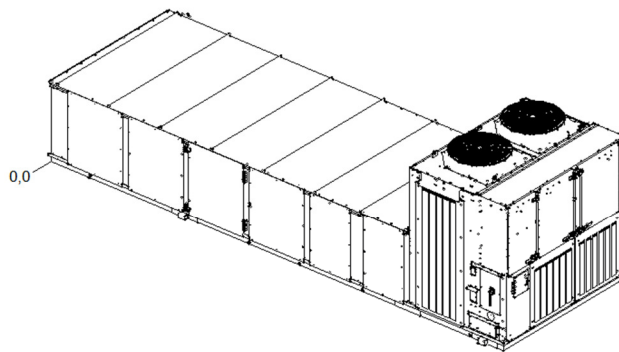
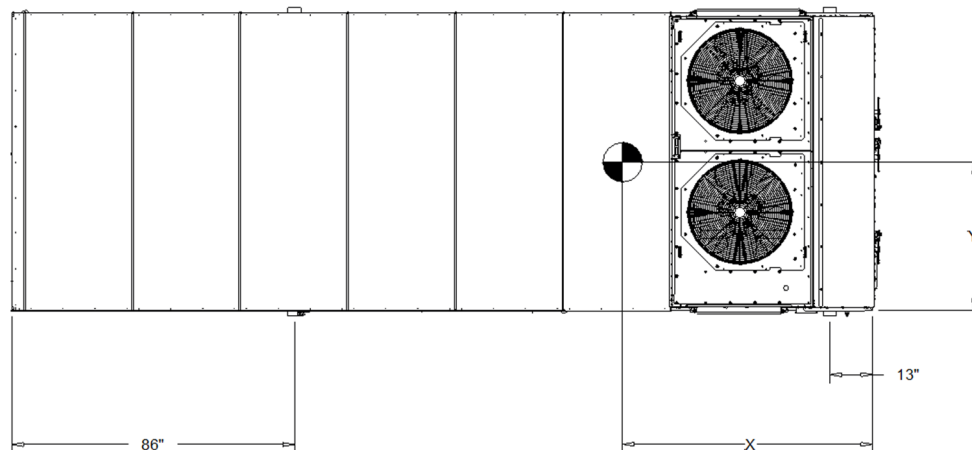
Dual 18" FC Fans



Fan Curve - Commercial Rooftop Air Conditioning Units (Midrange)

Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482



Weight, Clearance & Rigging - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482**

Center of Gravity X: 12.96 ft
Center of Gravity Y: 3.74 ft

Point Load 1: 836.0 lb
Point Load 2: 812.7 lb
Point Load 3: 844.0 lb
Point Load 4: 820.7 lb
Point Load 5: 850.8 lb
Point Load 6: 827.5 lb
Point Load 7: 853.5 lb
Point Load 8: 830.1 lb

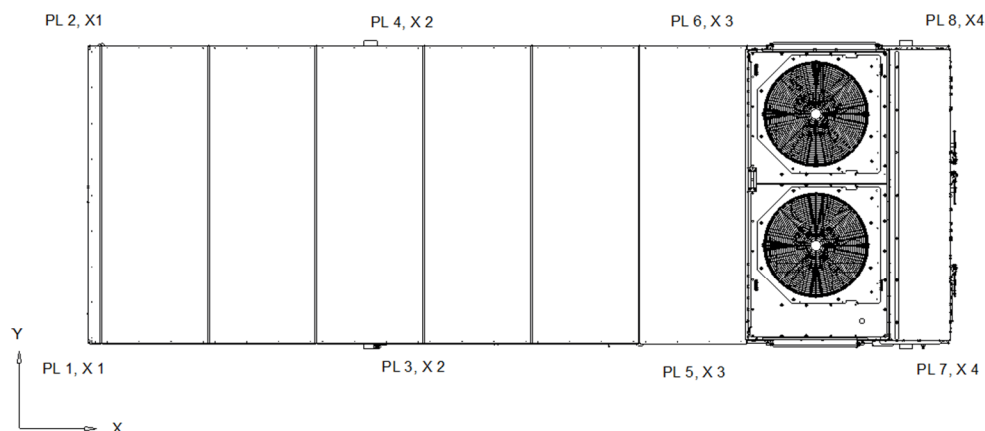
Total Weight: 6,675.3 lb

Point load X location 1: 0.33 ft
Point load X location 2: 10.33 ft
Point load X location 3: 18.83 ft
Point load X location 4: 22.08 ft
Point load X location 5: N/A

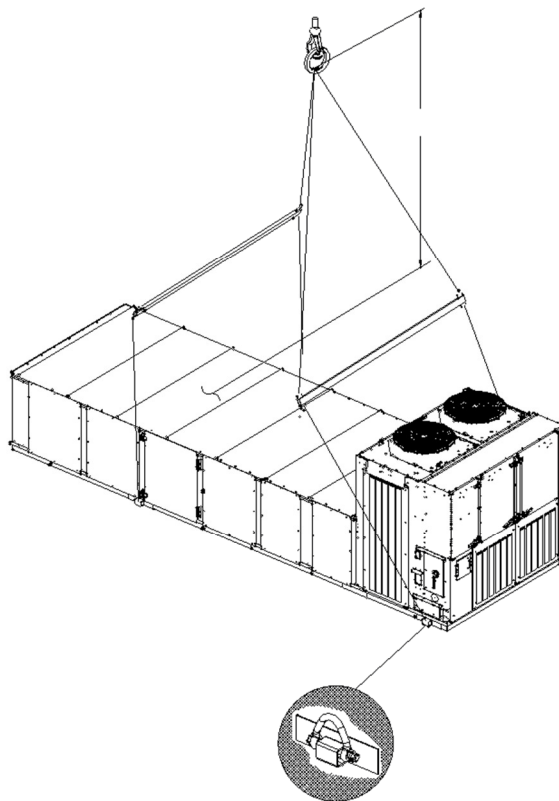
Point load Y location 1: 0.33 ft
Point load Y location 2: 7.25 ft

Notes:

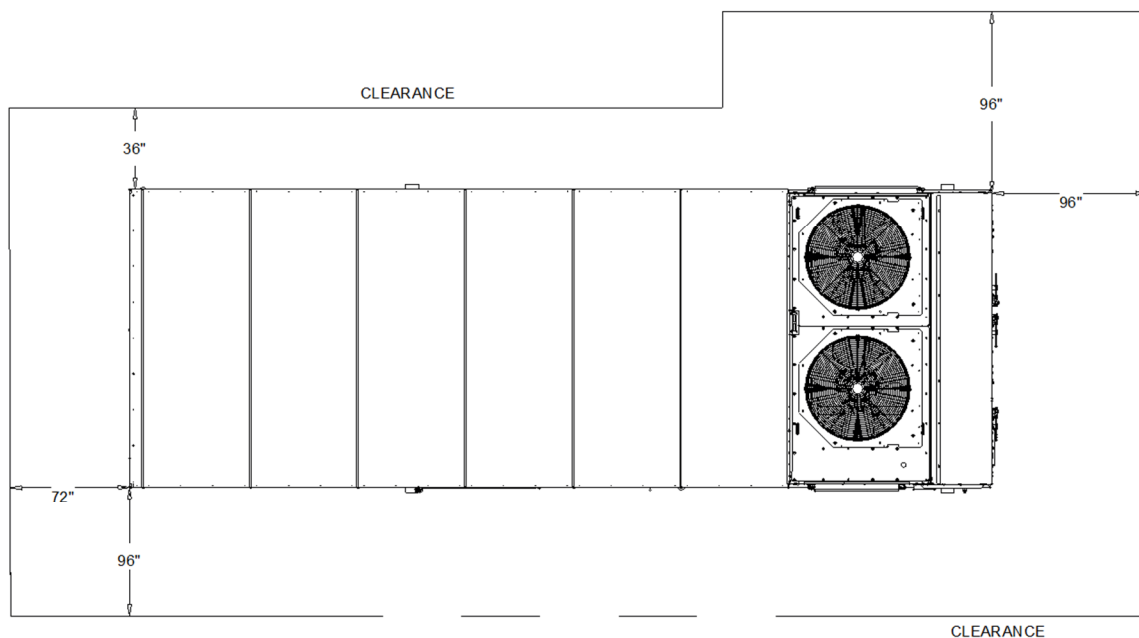
1. The actual weight is stamped on the unit nameplate.
2. The weight shown represents the typical unit operating weight for the configuration selected. Estimated at +/- 10% of the nameplate weight.
3. Design Special weights are not displayed. Any weight added through COD (Custom Order Design) will not be accounted in the +/- 10% estimate.
4. When 2 or more units are to be placed side by side, the distance between the units should be increased to 150% of the recommended single unit clearance. The units should also be staggered to reduce span deflection & assure proper diffusion of exhaust air.



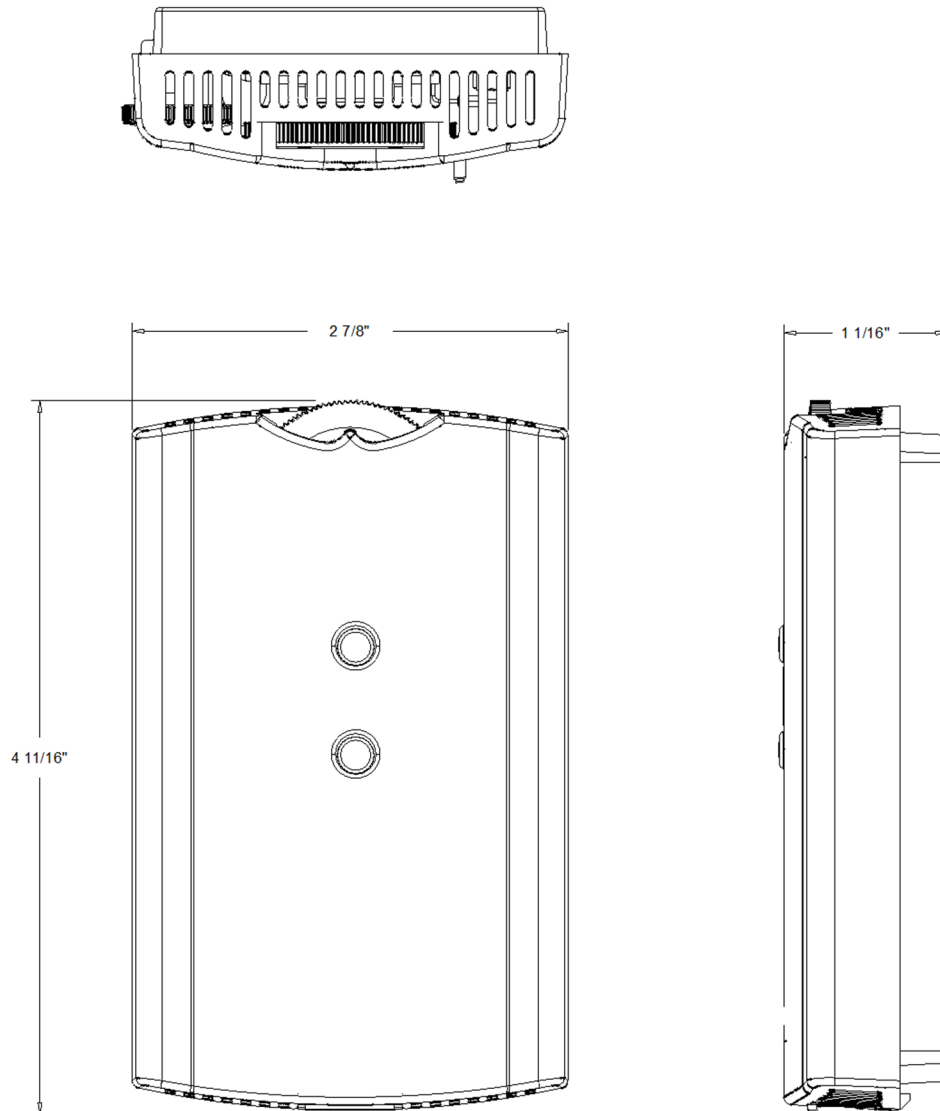
CENTER OF GRAVITY AND INSTALL WEIGHT X-Y POINTS
DRAWING

Weight, Clearance & Rigging - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482****Note:**

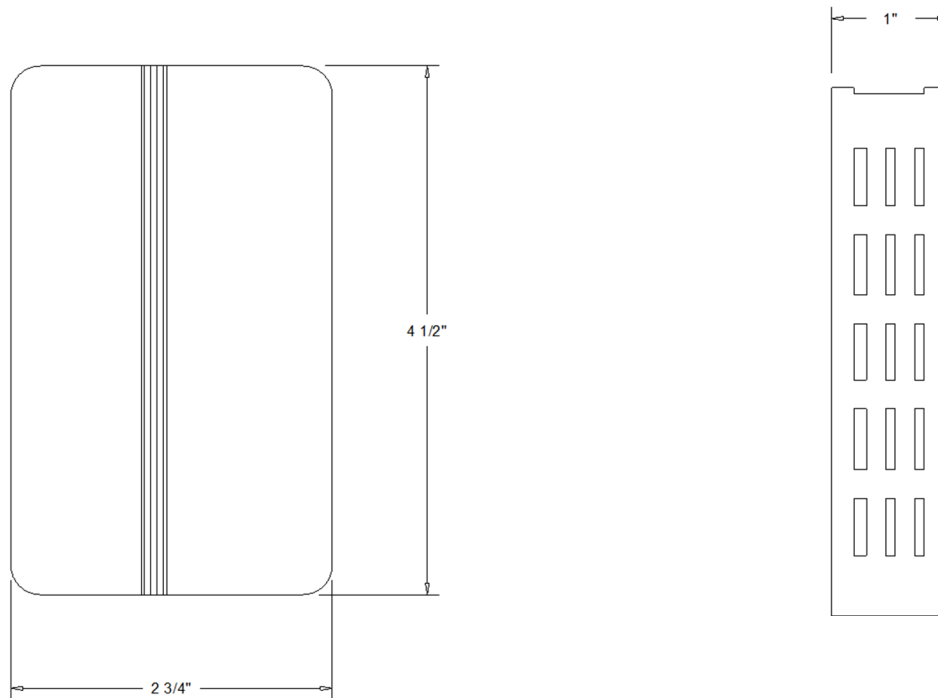
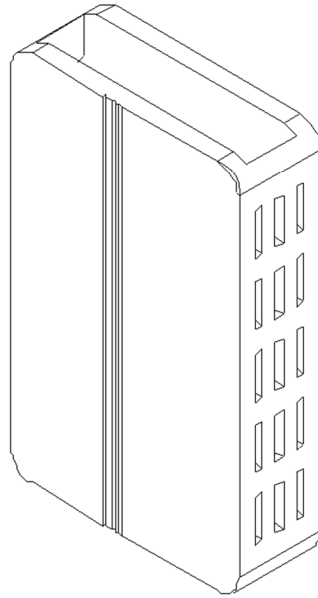
When 2 or more units are to be placed side by side, the distance between the units should be increased to 150% of the recommended single unit clearance. The units should also be staggered to reduce span deflection & assure proper diffusion of exhaust air.



CENTER OF GRAVITY AND INSTALL WEIGHT X-Y POINTS
AIR COOLED DRAWING

Accessory - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482**

DIMENSION DRAWING

Accessory - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482**

DIMENSION DRAWING

Field Wiring - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 Qty: 2 Tag(s): C11B00481, C11B00482**

CUSTOMER CONNECTION WIRE RANGE			
NOTES:	COMPONENT TYPE/SIZE	WIRE QTY PER PHASE	WIRE RANGE
TERMINAL BLOCK AND STD SCCR DISCONNECT SWITCH SIZES ARE CALCULATED BY SELECTING THE SIZE GREATER THAN OR EQUAL TO 1.15 X (SUM OF UNIT LOADS). SEE UNIT LITERATURE FOR UNIT LOAD VALUES.	510A TERMINAL BLOCK	2	6 AWG - 250 kcmil
	760A TERMINAL BLOCK	2	4 AWG - 500 kcmil
	150A DISCONNECT SWITCH (STD SCCR)	1	14 AWG - 3/0 AWG
	250A DISCONNECT SWITCH (STD SCCR)	1	3/0 AWG - 350 kcmil *
	400A DISCONNECT SWITCH (STD SCCR)	2	2/0 AWG - 500 kcmil
HIGH SCCR DISCONNECT SWITCH SIZES ARE CALCULATED BY SELECTING THE SIZE GREATER THAN OR EQUAL TO 1.25 X (SUM OF UNIT LOADS). SEE UNIT LITERATURE FOR UNIT LOAD VALUES.	600A DISCONNECT SWITCH (STD SCCR)	2	2/0 AWG - 500 kcmil
	150A DISCONNECT SWITCH (HIGH SCCR)	1	14 AWG - 3/0 AWG
	250A DISCONNECT SWITCH (HIGH SCCR)	1	3/0 AWG - 350 kcmil *
	400A DISCONNECT SWITCH (HIGH SCCR)	2	2/0 AWG - 500 kcmil
	600A DISCONNECT SWITCH (HIGH SCCR)	2	2/0 AWG - 500 kcmil

*250A DISCONNECT SWITCHES CAN ACCOMMODATE 4 AWG - 4/0 AWG IF LUG SCREWS ARE CHANGED TO S1A59551 KIT (PROVIDED WITH UNIT)