

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

ITEM	DESCRIPTION	Each	UNIT PRICE	Extended Total
1	25 Ton Packaged Industrial Rooftop Air Conditioning Unit Trane Model SAHLF2540 or equal Brand Bid: <i>Trane</i>	1	\$38,496.00	\$38,496.00
2	30 Ton Packaged Industrial Rooftop Air Conditioning Unit Trane Model SAHLF3040 or equal Brand Bid: <i>Trane</i>	1	\$42,455.00	\$42,455.00
3	40 Ton Packaged Industrial Rooftop Air Conditioning Unit Trane Model SAHLF4040 or equal Brand Bid: <i>Trane</i>	1	\$50,849.00	\$50,849.00
			Grand Total	\$131,800.00
Vendor Name: <i>Trane US Inc.</i> FEIN # <i>250900465</i> Address: <i>2303 Trane Dr, Roanoke, VA 24017</i> Phone: <i>704-546-6294</i> Authorized Signature: <i>[Signature]</i> Fax: _____ Date: <i>7/14/2020</i>				
Failure to use this bid form may result in disqualification.				

RECEIVED

2020 JUL 16 AM 10:23

WW PURCHASING
DIVISION

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.

Kenneth Young, Sales Engineer
(Name, Title)

(Printed Name and Title)

2303 Trane Dr., Roanoke, VA 24017
(Address)

304-546-6294
(Phone Number) / (Fax Number)

Kenneth.Young@Trane.com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation 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contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated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 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.

Trane US, Inc.
(Company)

Kenneth Young Sales Engineer
(Authorized Signature) (Representative Name, Title)

Kenneth Young Sales Engineer
(Printed Name and Title of Authorized Representative)

7/15/2020
(Date)

304-546-6294
(Phone Number) (Fax Number)



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
6/3/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
MARSH & MCLENNAN COMPANIES
 1166 Avenue of the Americas
 New York NY 10036
 ATTN: 212-345-6000

INSURED
 Trane U.S. Inc. dba Trane
 5001 MacCorkle Avenue SW
 South Charleston, WV 25309
 United States

CONTACT NAME: Kevin Mashavejian
PHONE (A/C No, Ext): (212) 345 7115 **FAX (A/C, No):**
E-MAIL ADDRESS: Kevin.Mashavejian@marsh.com

INSURER(S) AFFORDING COVERAGE **NAIC #**
 COMPANY A: National Union Fire Insurance Company of Pittsburgh, PA 19445

COVERAGES **CERTIFICATE NUMBER:** 578081 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liability <input checked="" type="checkbox"/> Time Element Pollution Liability GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		GL 1728845	4/17/2020	4/17/2021	EACH OCCURRENCE \$7,500,000.00 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000.00 MED EXP (Any one person) \$10,000.00 PERSONAL & ADV INJURY \$7,500,000.00 GENERAL AGGREGATE \$7,500,000.00 PRODUCTS - COMP/OP AGG \$7,500,000.00 \$
A A A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> PHYSICAL DAMAGE/SELF <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS APD - Self Insured		CA6631253 (AOS) CA6631254 (MA) CA6631255 (VA) APD - Self Insured	4/17/2020 4/17/2020 4/17/2020	4/17/2021 4/17/2021 4/17/2021	COMBINED SINGLE LIMIT (Ea accident) \$5,000,000.00 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$					EACH OCCURRENCE AGGREGATE \$
	<input type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY <input type="checkbox"/> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y/N <input type="checkbox"/> N/A					PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Please see page 2 for additional information.

CERTIFICATE HOLDER

West Virginia Army National Guard
1707 Coonskin Dr.
Charleston, WV 25311
United States

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Marsh USA, Inc.
BY: Kevin Mashavejian



ADDITIONAL REMARKS SCHEDULE

AGENCY

NAMED INSURED

Trane U.S. Inc. dba Trane
5001 MacCorkle Avenue SW
South Charleston, WV 25309
United States

EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: _____ FORM TITLE: _____

Job Description: Equipment

For questions regarding this certificate of insurance contact: Ashley Kendrick Email: ashley.kendrick@trane.com
Phone: 4232241166

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFO ADJ2100000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Trane US Inc
Company


Authorized Signature

7/14/2020
Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) 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, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Kenneth Young

Authorized Signature: [Signature] Date: 7/15/2020

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 15th day of July, 2020.

My Commission expires 2/27, 2023.

AFFIX SEAL HERE
OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Corey Pierce
The UPS Store #2970
5312 MacCorkle Avenue SW
South Charleston, WV 25309
My Commission Expires February 27, 2023

NOTARY PUBLIC [Signature]



Submittal

Prepared For:
WVARNG Coonskin

Date: July 15, 2020

Customer P.O. Number:
Customer Project Number:

Sold To:

Job Number:
Job Name:
WV Army National Guard

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

Product Summary

Qty	Product
3	Commercial Rooftop Air Conditioning Units (Midrange)

Kenneth Young
Trane U.S. Inc.
5001 MacCorkle Ave SW
Charleston, WV 25309
Phone: (304) 348-2800
Cell: (304) 546-6294
Fax: (304) 348-2810

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

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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Product Summary 1

Commercial Rooftop Air Conditioning Units (Midrange) (Items A1 - A3)

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 Fan Curve **Error! Bookmark not defined.**

 Weight, Clearance & Rigging Diagram..... 15

 Accessory..... 20

Field Installed Options - Part/Order Number Summary

 Commercial Rooftop Air Conditioning Units (Midrange)..... **Error! Bookmark not defined.**

Performance Data - Commercial Rooftop Air Conditioning Units (Midrange)

Tags	J96E71502	J96E71503	J96E71501
Supply airflow (cfm)	9500	11000	14500
Exhaust/Return airflow (cfm)	9000	10000	13000
Cooling entering DB (F)	80.00	80.00	80.00
Cooling entering WB (F)	67.00	67.00	67.00
Ambient DB (F)	95.00	95.00	95.00
Cooling leaving coil DB (F)	56.99	56.80	57.73
Cooling leaving coil WB (F)	55.98	55.75	56.14
Cooling leaving unit DB (F)	59.24	59.22	59.71
Cooling leaving unit WB (F)	56.85	56.69	56.91
Gross total capacity (MBh)	328.68	387.55	494.85
Gross sensible capacity (MBh)	244.61	285.60	359.15
Gross latent capacity (MBh)	84.07	101.95	135.70
Net total capacity (MBh)	305.19	358.35	463.23
Net sensible capacity (MBh)	221.12	256.40	327.53
Net sensible heat ratio (%)	72.45	71.55	70.71
Fan motor heat (MBh)	23.49	29.20	31.62
Evaporator face area (sq ft)	20.30	25.50	32.50
Supply duct static pressure (in H2O)	1.200	1.200	1.200
Return duct static pressure (in H2O)	0.500	0.500	0.500
Component S.P. drop (in H2O)	0.872	0.923	0.824
Total static pressure (in H2O)	2.572	2.623	2.524
Supply motor bhp (bhp)	8.17	10.27	11.31
Supply fan rpm (rpm)	1121	1016	906
Supply fan efficiency (%)	47.05	44.21	50.92
Exhaust static pressure (in H2O)	0.500	0.500	0.500
Exhaust motor bhp (bhp)	1.90	2.34	2.83
Exhaust fan rpm (rpm)	616	647	476
System power (kW)	32.64	39.22	49.13
EER @ AHRI (EER)	11.0	11.0	10.5
IEER @ AHRI (EER)	12.8	13.2	12.2
Minimum circuit ampacity (A)	70.05	85.08	100.90
Maximum overcurrent protection (A)	90.00	110.00	110.00
Minimum disconnect switch size (A)	74.00	90.00	110.00
Recommended dual element (A)	80.00	100.00	110.00
Compressor 1 count (Each)	1.00	1.00	4.00
Compressor 1 RLA (A)	22.20	25.50	15.90
Compressor 2 count (Each)	1.00	1.00	-
Compressor 2 RLA (A)	19.10	22.20	-
Supply fan motor FLA (A)	12.60	18.00	18.00
Supply motor count ()	1	1	1
Supply fan count (Each)	2.00	2.00	2.00
Condenser fan FLA (A)	5.40	5.40	7.20
Exhaust fan motor FLA (A)	4.20	6.60	6.60
Other FLA (A)	1.00	1.00	1.00
Desired reheat set point (F)	70.00	70.00	70.00
EDB in HGRH (F)	73.00	73.00	73.00
EWB in HGRH (F)	64.00	64.00	64.00
Ambient DB in HGRH (F)	75.00	75.00	75.00
Ambient WB in HGRH (F)	68.00	68.00	68.00
R-410A refrigerant charge - circuit 1 (lb)	31.3	39.3	30.3
R-410A refrigerant charge - circuit 2 (lb)	-	-	29.8

High Capacity Unit - R410A

Units shall be made high capacity through the use of larger compressors that provide higher refrigerant mass flowrates.

High Efficiency Unit

High efficiency unit shall meet ASHRAE 189.1-2011 and CEE Tier 2 Commercial Unitary AC and HP Specification for utility rebate requirements.

Phase Monitor

Shall protect 3-phase equipment from phase loss, phase reversal, and low voltage. Any fault condition shall produce a Failure Indicator LED, and send the unit into an emergency stop condition. cULus approved. (Standard on 20-75T units)

Supply Fan

Supply fan motors shall be either open drip-proof or enclosed fan cooled. All supply fans shall be dynamically balanced in factory. Supply fan shall be test run in unit and shall reach rated rpm. All 60 Hz supply fan motors meet the Energy Independence Security Act of 2007 (EISA). All 50 Hz supply fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

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. Optional extended grease lines shall allow greasing of bearings from unit filter section. 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.

Two-inch Spring Isolators

Supply and Exhaust/Return fan (if applicable) assemblies shall be isolated with two-inch nominal deflection to reduce transmission of vibrations

Modulating 100 Percent Exhaust Fan with Statitrac Control

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 double deflection, rubber in shear isolators or spring isolation on motor sizes larger than five hp. For both CV and VAV rooftops, the 100 percent modulating exhaust 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. The (Statitrac) control system shall then modulate the discharge dampers (or VFD) to control the building pressure to within the adjustable, specified dead band that shall be adjustable at the Human Interface Panel. All 60 Hz exhaust fan motors meet the Energy Independence Security Act of 2007 (EISA).

0-100 percent modulating economizer

Operated through the primary temperature controls to automatically utilize OA for "free" cooling. Automatically modulated return and OA 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 Human Interface Panel or with a remote potentiometer 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. Low leak economizer dampers shall be standard with a leakage rate of 2.5 percent of nominal airflow (400 CFM/ton) at 1" wg. static pressure.

Economizer Control with Dry Bulb

An outdoor temperature sensor shall be included for comparing the outdoor dry bulb temperature to a locally adjustable

temperature setpoint. The setpoint shall be programmed at the human interface, or remote human interface, to determine if outdoor air temperature is suitable for economizer operation.

High efficiency throwaway, MERV 8

Shall be two-inch high efficiency MERV 8 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.

Unit Controller

DDC microprocessor controls shall be provided to control all unit functions. The control system shall be suitable to control CV or VAV applications. The controls shall be factory-installed and mounted in the main control panel. All factory-installed controls shall be fully commissioned (run tested) at the factory. The unit shall have a Human Interface Panel with a 16 key keypad, a 2 line X 40 character clear English display as standard to provide the operator with full adjustment and display of control data functions. The unit controls shall be used as a stand-alone controller, or as part of a building management system involving multiple units.

1

The unit shall be equipped with a complete microprocessor control system. This system shall consist of temperature and pressure (thermistor and transducer) sensors, printed circuit boards (modules), and a unit mounted Human Interface Panel. Modules (boards) shall be individually replaceable for ease of service. All microprocessors, boards and sensors shall be factory mounted, wired and tested. The microprocessor boards shall be stand-alone DDC controls not dependent on communications with an on-site PC or a Building Management Network. The microprocessors shall be equipped with on-board diagnostics, indicating that all hardware, software and interconnecting wiring are in proper operating condition. The modules (boards) shall be protected to prevent RFI and voltage transients from affecting the board's circuits. All field wiring shall be terminated at separate, clearly marked terminal strip. Direct field wiring to the I/O boards is not acceptable. The microprocessor's memory shall be non-volatile EEPROM type requiring no battery or capacitive backup, while maintaining all data.

2

Zone sensors shall be available in several combinations with selectable features depending on sensor.

3

The Human Interface Panel's keypad display character format shall be 40 characters x 2 lines. The character font shall be 5 x 7 dot matrix plus cursor. The display shall be Supertwist Liquid Crystal Display (LCD) with blue characters on a ray/green background which provides high visibility and ease of interface. The display format shall be in clear English. Two or three digit coded displays are not acceptable.

4

The keypad shall be equipped with 16 individual touch-sensitive membrane key switches. The switches shall be divided into four separate sections and be password protected from change by unauthorized personnel. The six main menus shall be STATUS, SETPOINTS, DIAGNOSTICS, SETUP, CONFIGURATION and SERVICE MODE.

Unit Interrupt Rating (Standard Short Circuit Current Rating-SCCR)

A 5,000 Amp rating shall be applied to the unit enclosure using a non-fused circuit breaker for disconnect switch purposes. Fan motors, compressors, and electric heat circuits shall be provided with protective devices that will provide the unit rated level of fault protection. The unit shall be marked with approved cULus markings and will adhere to cULus regulations.

Factory Powered GFI Convenience Outlet

A15A, 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

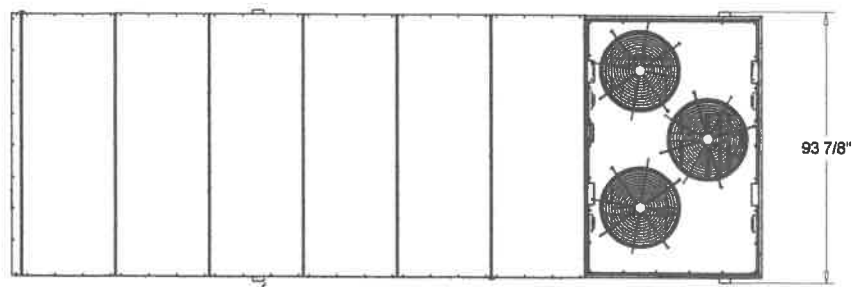
Non-Fused Disconnect Switch with External Handle

External handle SHALL enable the operator to disconnect unit power with the control box door closed for safety.

BAYSENS074 - Remote Zone Temperature Sensor with Timed Override and Temp. Setpoint

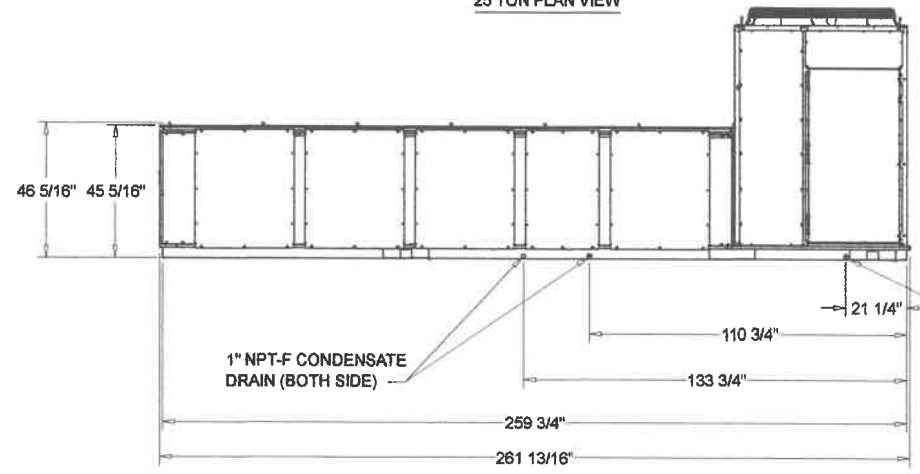
Electronic sensor shall be used in conjunction with a Trane ICS system with zone temperature setpoint capability. The timed override button shall allow the system to operate at the occupied set points while in an unoccupied status..

- NOTES:
1. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION
 2. LOW AMBIENT DAMPER ONLY COMES WITH SELECTED UNIT.
 3. OVERALL UNIT WIDTH INCREASES 5/8" BEYOND LIFTING LUG WITH ULTRA LOW LEAK POWER EXHAUST DAMPERS
 4. RETURN AIR OPENING CONFIGURATION FOR USES WITH NO AIR OPTION, BAROMETRIC RELIEF, AND EXHAUST FAN.
 5. IF FIELD CONVERTING SUPPLY & RETURN OPENING(S) TO HORIZONTAL OR VERTICAL AIRFLOW, FACTORY MUST VERIFY IF UNIT OPTIONS WILL ALLOW IT. FACTORY INSTALLATION IS ALWAYS RECOMMENDED.

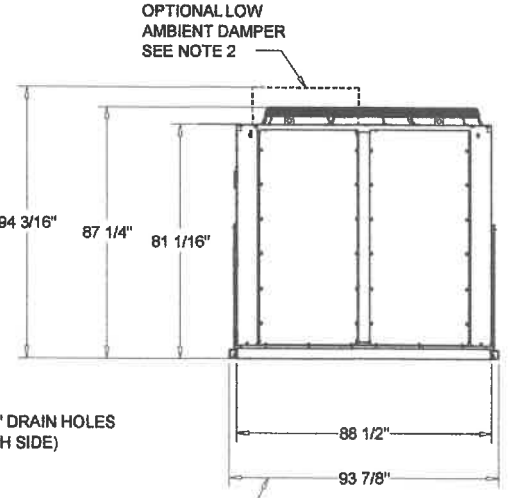


LIFTING POINTS X4

25 TON PLAN VIEW



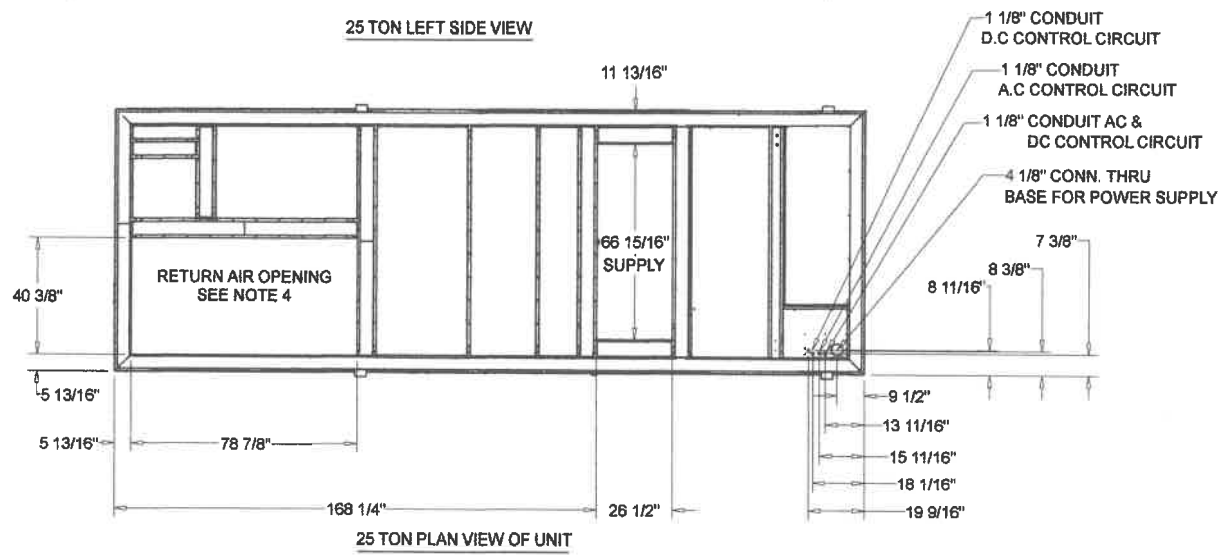
25 TON LEFT SIDE VIEW



OPTIONAL LOW AMBIENT DAMPER
 SEE NOTE 2

SEE NOTE 3

25 TON FRONT VIEW

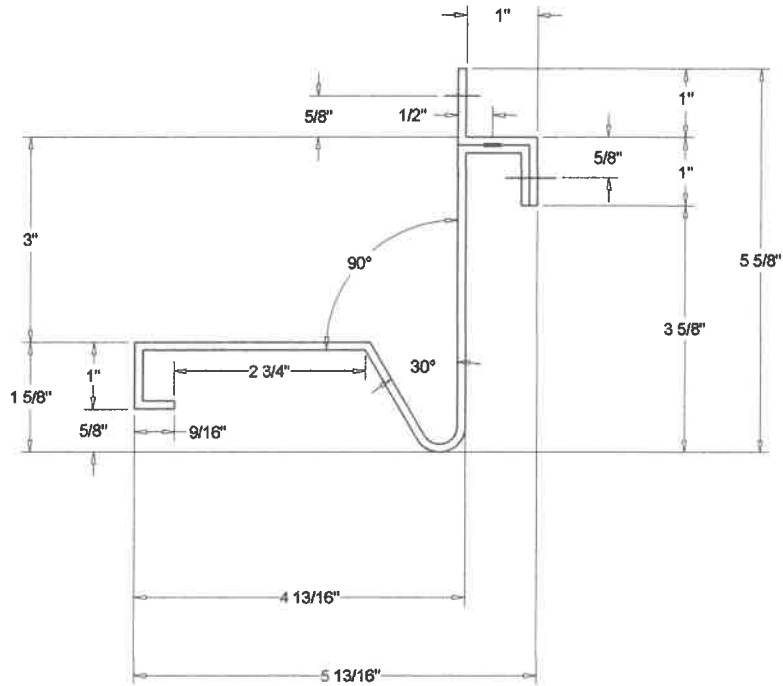


25 TON PLAN VIEW OF UNIT

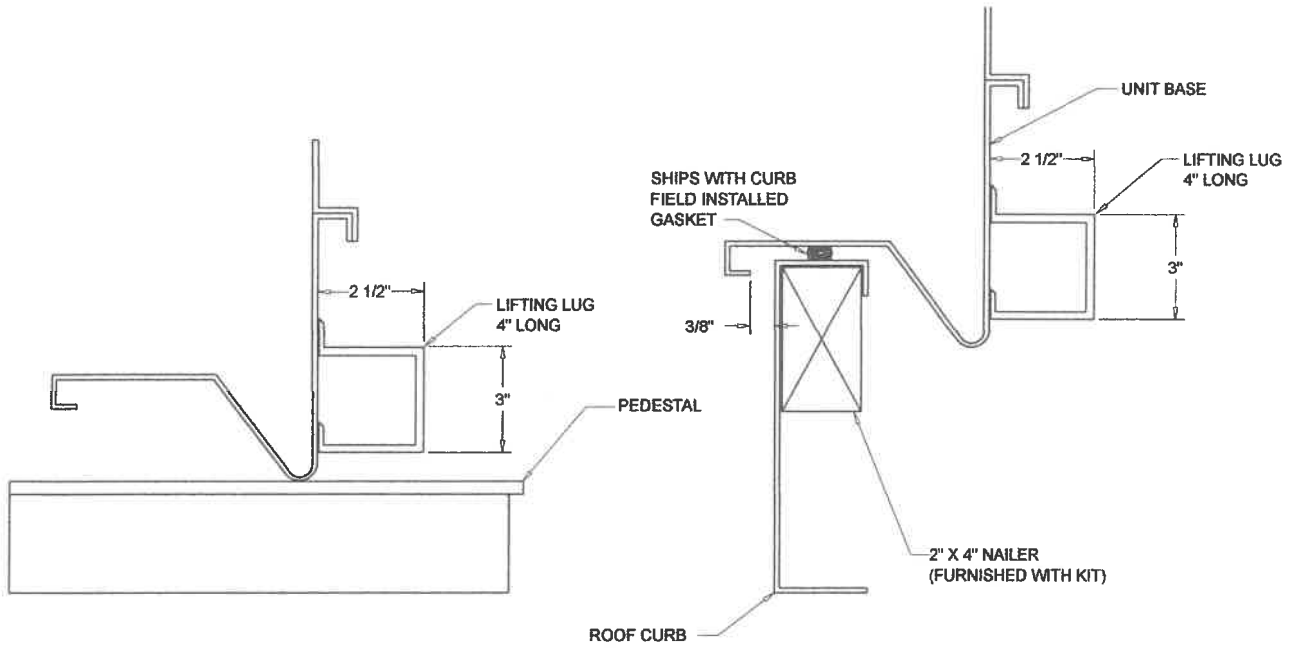
- 1 1/8" CONDUIT D.C. CONTROL CIRCUIT
- 1 1/8" CONDUIT A.C. CONTROL CIRCUIT
- 1 1/8" CONDUIT AC & DC CONTROL CIRCUIT
- 4 1/8" CONN. THRU BASE FOR POWER SUPPLY

Unit Dimensions - Commercial Rooftop Air Conditioning Units (Midrange)

Item: A1 - A3 Qty: 3 Tag(s): J96E71502, J96E71503, J96E71501



TYPICAL PEDESTAL AND BASE
DIMENSION DRAWING



TYPICAL PEDESTAL AND BASE PAN
DETAIL

TYPICAL ROOF CURB AND BASE PAN
DETAIL

Unit Dimensions - Commercial Rooftop Air Conditioning Units (Midrange)
Item: A1 Qty: 1 Tag(s): J96E71502

ELECTRICAL / GENERAL DATA

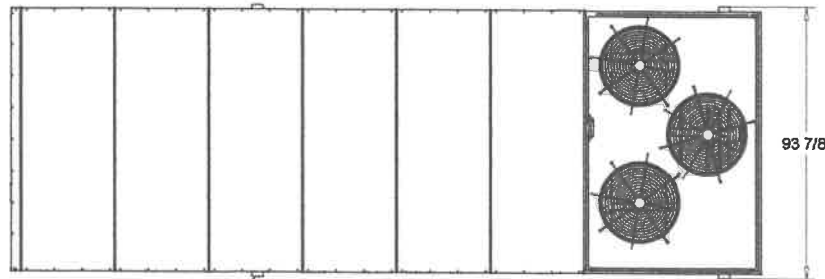
<p>TONS</p> <p>Model (Tonnage): SAHLF25 (25 Ton) Unit Operating Voltage Range: 414-506 Unit Primary Voltage: 460 Unit Hertz: 60 Unit Phase: 3</p> <p>EER: 11.0 EER IEER: 12.8 EER</p>	<p>GAS HEATING - PERFORMANCE</p> <p>Heating Input: Heating Output: Capacity Steps:</p> <p>HEATING - GENERAL DATA</p> <p>Gas inlet pressure: (in w.c.) Gas Pipe Connection Size:</p>
<p>COMPRESSOR</p> <p>Compressor 1 Count: 1.00 Each Compressor 1 RLA: 22.20 A Compressor 2 Count: 1.00 Each Compressor 2 RLA: 19.10 A Compressor 3 Count: Value not available Compressor 3 RLA: Value not available</p>	<p>ELECTRIC HEATER</p> <p>Electric Heater Kw: Electric Heater Full Load Amps:</p>
<p>SUPPLY FAN MOTOR</p> <p>Number of Fans: 2.00 Each Number of Motors: 1 Total Horsepower: 10 hp FC Supply Fan Motor Full Load Amps: 12.60 A Supply Fan Efficiency: 47.05 %</p>	<p>EXHAUST / RETURN FAN MOTOR SECTION</p> <p>Number: Value not available Horsepower (Each): 100% Exhaust - 3 hp with Statitrac building pressure control Exhaust/Return Fan Motor FLA: 4.20 A</p>
<p>CONDENSER FAN MOTOR</p> <p>Number: 3 Horsepower (each): 1.0 Condenser Fan Motor Full Load Amps (Total): 5.4</p>	<p>FILTERS - TYPE</p> <p>Type: Furnished: YES Number: 12 Recommended Size: 20" x20" x2"</p>
<p>EVAPORATIVE CONDENSER (7)</p> <p>Pump Horsepower: N/A Pump Full Load Amps: N/A Sump Heater Full Load Amps: N/A Sump Heater kW: N/A</p>	<p>PREFILTERS</p> <p>Furnished: Number: Recommended Size:</p>
<p>REFRIGERANT TYPE (6)</p> <p>Charge Type: R-410A Factory Charge (Circuit #1): 31.3 lb Factory Charge (Circuit #2): Value not available</p>	<p>FINAL FILTERS - TYPE</p> <p>Type: Furnished: Number: Recommended Size:</p> <p>PREFILTERS</p> <p>Furnished: Number: Recommended Size:</p>

Notes:

- LOAD 1=Current of the largest motor (compressor or fan motor); LOAD 2=Sum of the currents of all remaining motors; LOAD 3 =Current of electric heaters
 LOAD 4 =Control Power Transformer (20-40 and 24-48 ton units add 3 FL amps for wire sizing formula, 50-75 and 59 - 89 ton units add 6 FL amps)
- For Electric Heat MCA, MOP, RDE values, calculate for both cooling and heating modes. (When determining LOADS, the compressors do not operate when the unit is in heating mode) (On 70-89 ton single source units, heating Load 4 = 12 amps on 200,230 volt units and 9 amps on 460,575 volt units)
- If selected Max Over Cur is less than the Min Cir Amp, then select the lowest maximum fuse size which is equal to or larger than the Min Cir Amp, provided the selected fuse size does not exceed 800 amps.
- If the selected Recommended Dual Element fuse size is greater than the selected Max Over Cur Protection value, then select the Recommended Dual Element fuse size value to equal the Max Over Protection value.
- Compressor KW at AHR1 rating conditions of 80/67 -95
- Refrigerant charge is an approx. value. For a more precise value, see unit nameplate and service instructions.
- Sump Heater is an optional feature.
- Total Horsepower is the combined Horsepower for the Supply Fan Motors.

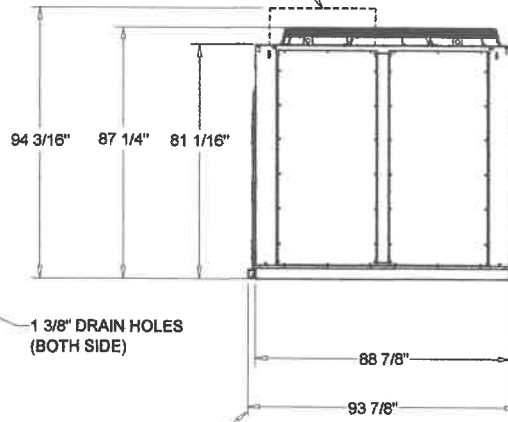
NOTES:

1. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION
2. LOW AMBIENT DAMPER ONLY COMES WITH SELECTED UNIT
3. OVERALL UNIT WIDTH INCREASES 5/8" BEYOND LIFTING LUG WITH ULTRA LOW LEAK POWER EXHAUST DAMPERS
4. RETURN AIR OPENING CONFIGURATION FOR USES WITH NO AIR OPTION, BAROMETRIC RELIEF, AND EXHAUST FAN.
5. IF FIELD CONVERTING SUPPLY & RETURN OPENING(S) TO HORIZONTAL OR VERTICAL AIRFLOW, FACTORY MUST VERIFY IF UNIT OPTIONS WILL ALLOW IT. FACTORY INSTALLATION IS ALWAYS RECOMMENDED.

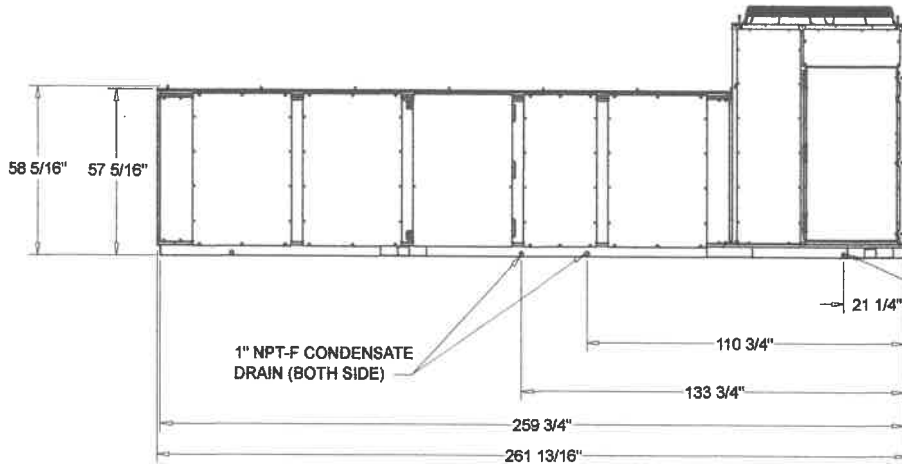


LIFTING POINTS X4
 30 TON PLAN VIEW

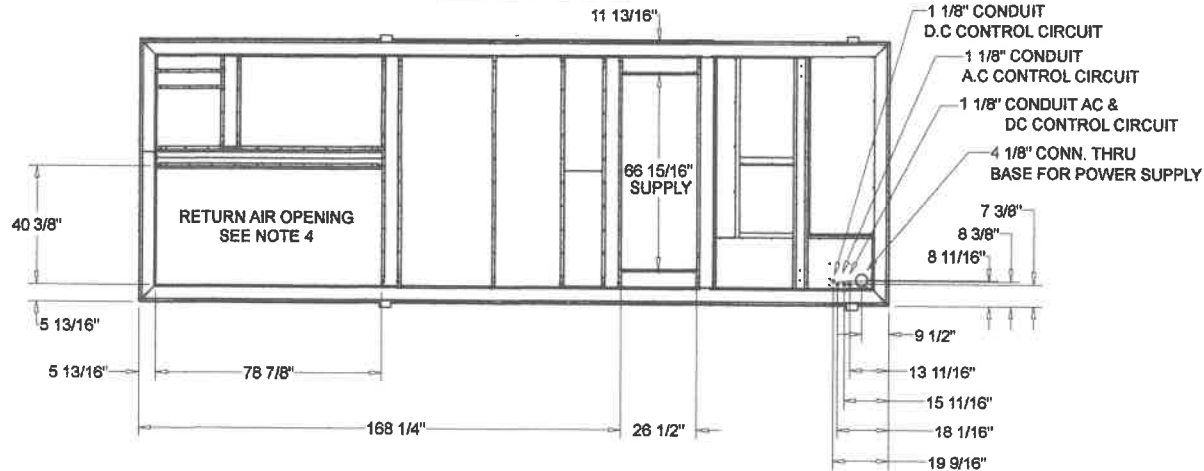
OPTIONAL LOW AMBIENT DAMPER
 SEE NOTE 2



SEE NOTE 3
 30 TON FRONT VIEW



30 TON LEFT SIDE VIEW



30 TON PLAN VIEW OF UNIT

Unit Dimensions - Commercial Rooftop Air Conditioning Units (Midrange)
Item: A2 Qty: 1 Tag(s): J96E71503

ELECTRICAL / GENERAL DATA

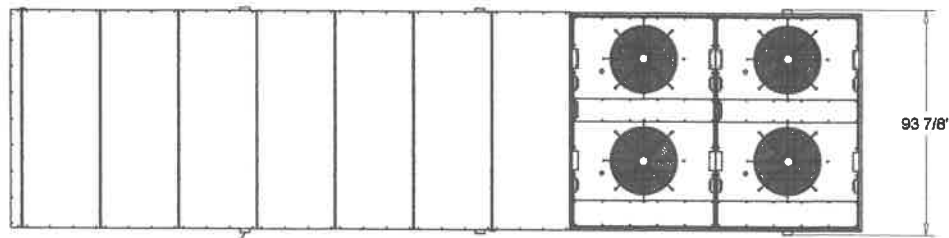
<p>TONS</p> <p>Model (Tonnage): SAHLF30 (30Ton) Unit Operating Voltage Range: 414-506 Unit Primary Voltage: 460 Unit Hertz: 60 Unit Phase: 3</p> <p>EER: 11.0 EER IEER: 13.2 EER</p>	<p>GAS HEATING - PERFORMANCE</p> <p>Heating Input: Heating Output: Capacity Steps:</p> <p>HEATING - GENERAL DATA</p> <p>Gas inlet pressure: (in w.c.) Gas Pipe Connection Size:</p>
<p>COMPRESSOR</p> <p>Compressor 1 Count: 1.00 Each Compressor 1 RLA: 25.50 A Compressor 2 Count: 1.00 Each Compressor 2 RLA: 22.20 A Compressor 3 Count: Value not available Compressor 3 RLA: Value not available</p>	<p>ELECTRIC HEATER</p> <p>Electric Heater Kw: Electric Heater Full Load Amps:</p>
<p>SUPPLY FAN MOTOR</p> <p>Number of Fans: 2.00 Each Number of Motors: 1 Total Horsepower: 15 hp FC Supply Fan Motor Full Load Amps: 18.00 A Supply Fan Efficiency: 44.21 %</p>	<p>EXHAUST / RETURN FAN MOTOR SECTION</p> <p>Number: Value not available Horsepower (Each): 100% Exhaust - 5 hp with Statitrac building pressure control Exhaust/Return Fan Motor FLA: 6.60 A</p>
<p>CONDENSER FAN MOTOR</p> <p>Number: 3 Horsepower (each): 1.0 Condenser Fan Motor Full Load Amps (Total): 5.4</p>	<p>FILTERS - TYPE</p> <p>Type: Furnished: YES Number: 16 Recommended Size: 20"x 20"x 2"</p>
<p>EVAPORATIVE CONDENSER ⁽⁷⁾</p> <p>Pump Horsepower: N/A Pump Full Load Amps: N/A Sump Heater Full Load Amps: N/A Sump Heater kW: N/A</p>	<p>PREFILTERS</p> <p>Furnished: Number: Recommended Size:</p>
<p>REFRIGERANT TYPE ⁽⁶⁾</p> <p>Charge Type: R-410A Factory Charge (Circuit #1): 39.3 lb Factory Charge (Circuit #2): Value not available</p>	<p>FINAL FILTERS - TYPE</p> <p>Type: Furnished: Number: Recommended Size:</p> <p>PREFILTERS</p> <p>Furnished: Number: Recommended Size:</p>
<p> </p>	

Notes:

- LOAD 1=Current of the largest motor (compressor or fan motor); LOAD 2=Sum of the currents of all remaining motors; LOAD 3 =Current of electric heaters
 LOAD 4 =Control Power Transformer (20-40 and 24-48 ton units add 3 FL amps for wire sizing formula, 50-75 and 59 - 89 ton units add 6 FL amps)
- For Electric Heat MCA, MOP, RDE values, calculate for both cooling and heating modes. (When determining LOADS, the compressors do not operate when the unit is in heating mode) (On 70-89 ton single source units, heating Load 4 = 12 amps on 200,230 volt units and 9 amps on 460,575 volt units)
- If selected Max Over Cur is less than the Min Cir Amp, then select the lowest maximum fuse size which is equal to or larger than the Min Cir Amp, provided the selected fuse size does not exceed 800 amps.
- If the selected Recommended Dual Element fuse size is greater than the selected Max Over Cur Protection value, then select the Recommended Dual Element fuse size value to equal the Max Over Protection value.
- Compressor KW at AHR1 rating conditions of 80/67 -95
- Refrigerant charge is an approx. value. For a more precise value, see unit nameplate and service instructions.
- Sump Heater is an optional feature.
- Total Horsepower is the combined Horsepower for the Supply Fan Motors.

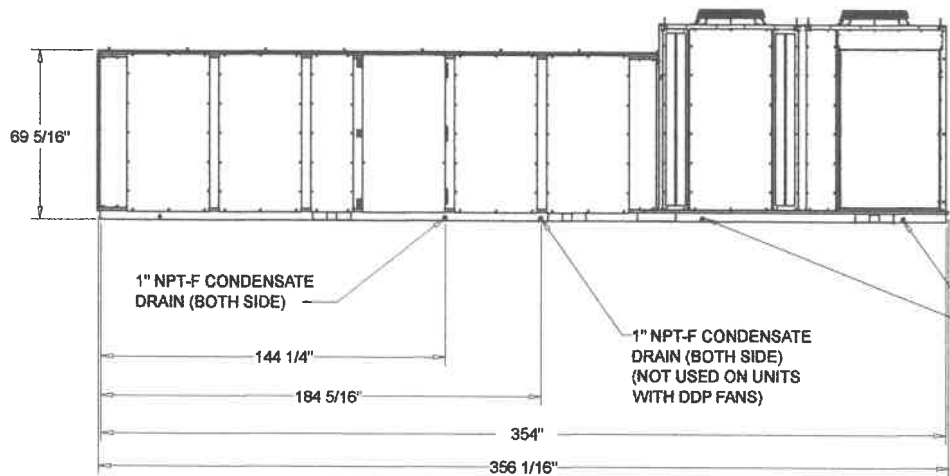
NOTES:

1. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION
2. LOW AMBIENT DAMPER ONLY COMES WITH SELECTED UNIT.
3. OVERALL UNIT WIDTH INCREASES 5/8" BEYOND LIFTING LUG WITH ULTRA LOW LEAK POWER EXHAUST DAMPERS
4. RETURN AIR OPENING CONFIGURATION FOR USES WITH NO AIR OPTION, BAROMETRIC RELIEF, AND EXHAUST FAN.
5. IF FIELD CONVERTING SUPPLY & RETURN OPENING(S) TO HORIZONTAL OR VERTICAL AIRFLOW, FACTORY MUST VERIFY IF UNIT OPTIONS WILL ALLOW IT. FACTORY INSTALLATION IS ALWAYS RECOMMENDED.

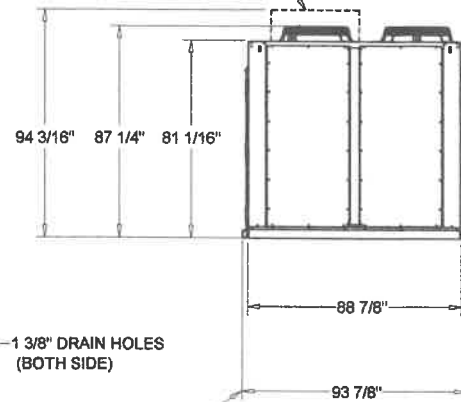


40 TON PLAN VIEW

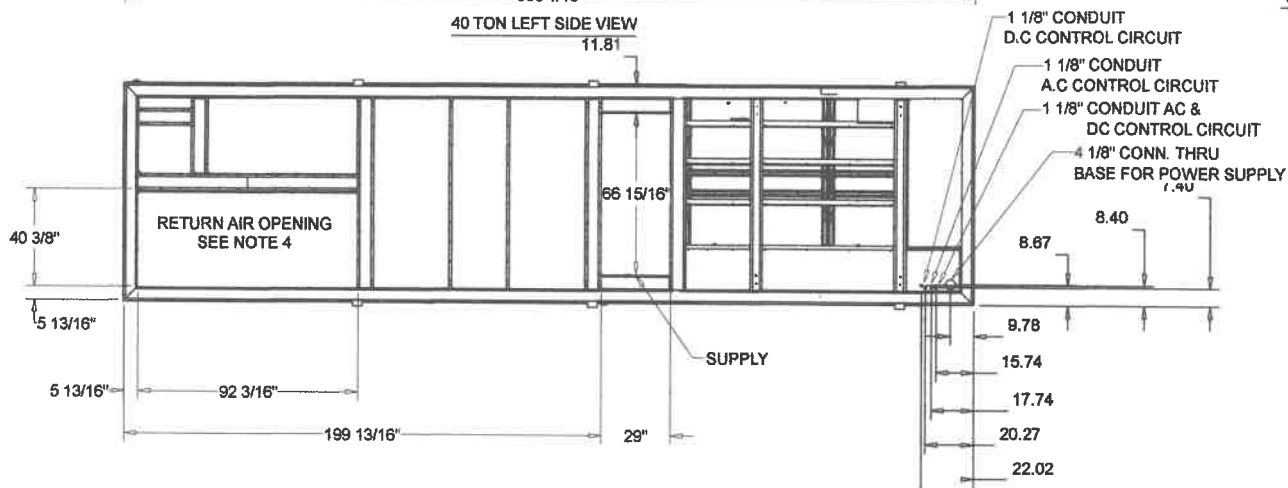
OPTIONAL LOW AMBIENT DAMPER
 SEE NOTE 2



40 TON LEFT SIDE VIEW



40 TON FRONT VIEW



40 TON PLAN VIEW OF UNIT

Unit Dimensions - Commercial Rooftop Air Conditioning Units (Midrange)
Item: A3 Qty: 1 Tag(s): J96E71501

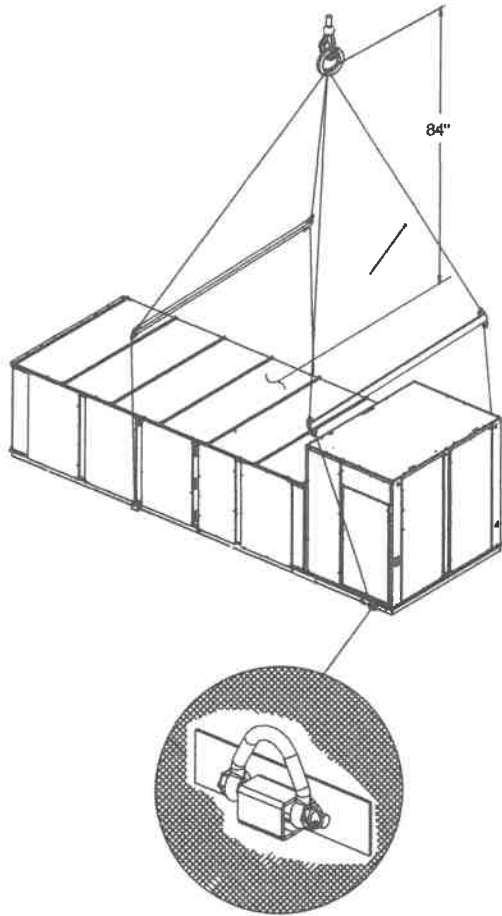
ELECTRICAL / GENERAL DATA

<p>TONS</p> <p>Model (Tonnage): SAHLF40 (40Ton) Unit Operating Voltage Range: 414-506 Unit Primary Voltage: 460 Unit Hertz: 60 Unit Phase: 3</p> <p>EER: 10.5 EER IEER: 12.2 EER</p>	<p>GAS HEATING - PERFORMANCE</p> <p>Heating Input: Heating Output: Capacity Steps:</p> <p>HEATING - GENERAL DATA</p> <p>Gas inlet pressure: (in w.c.) Gas Pipe Connection Size:</p>
<p>COMPRESSOR</p> <p>Compressor 1 Count: 4.00 Each Compressor 1 RLA: 15.90 A Compressor 2 Count: Value not available Compressor 2 RLA: Value not available Compressor 3 Count: Value not available Compressor 3 RLA: Value not available</p>	<p>ELECTRIC HEATER</p> <p>Electric Heater Kw: Electric Heater Full Load Amps:</p>
<p>SUPPLY FAN MOTOR</p> <p>Number of Fans: 2.00 Each Number of Motors: 1 Total Horsepower: 15 hp FC Supply Fan Motor Full Load Amps: 18.00 A Supply Fan Efficiency: 50.92 %</p>	<p>EXHAUST / RETURN FAN MOTOR SECTION</p> <p>Number: Value not available Horsepower (Each): 100% Exhaust - 5 hp with Statitrac building pressure control Exhaust/Return Fan Motor FLA: 6.60 A</p>
<p>CONDENSER FAN MOTOR</p> <p>Number: 4 Horsepower (each): 1.0 Condenser Fan Motor Full Load Amps (Total): 7.2</p>	<p>FILTERS - TYPE</p> <p>Type: Furnished: YES Number: 16 Recommended Size: 20" x 25"x 2"</p>
<p>EVAPORATIVE CONDENSER ⁽⁷⁾</p> <p>Pump Horsepower: N/A Pump Full Load Amps: N/A Sump Heater Full Load Amps: N/A Sump Heater kW: N/A</p>	<p>PREFILTERS</p> <p>Furnished: Number: Recommended Size:</p>
<p>REFRIGERANT TYPE ⁽⁸⁾</p> <p>Charge Type: R-410A Factory Charge (Circuit #1): 30.3 lb Factory Charge (Circuit #2): 29.8 lb</p>	<p>FINAL FILTERS - TYPE</p> <p>Type: Furnished: Number: Recommended Size:</p> <p>PREFILTERS</p> <p>Furnished: Number: Recommended Size:</p>
<p> </p>	

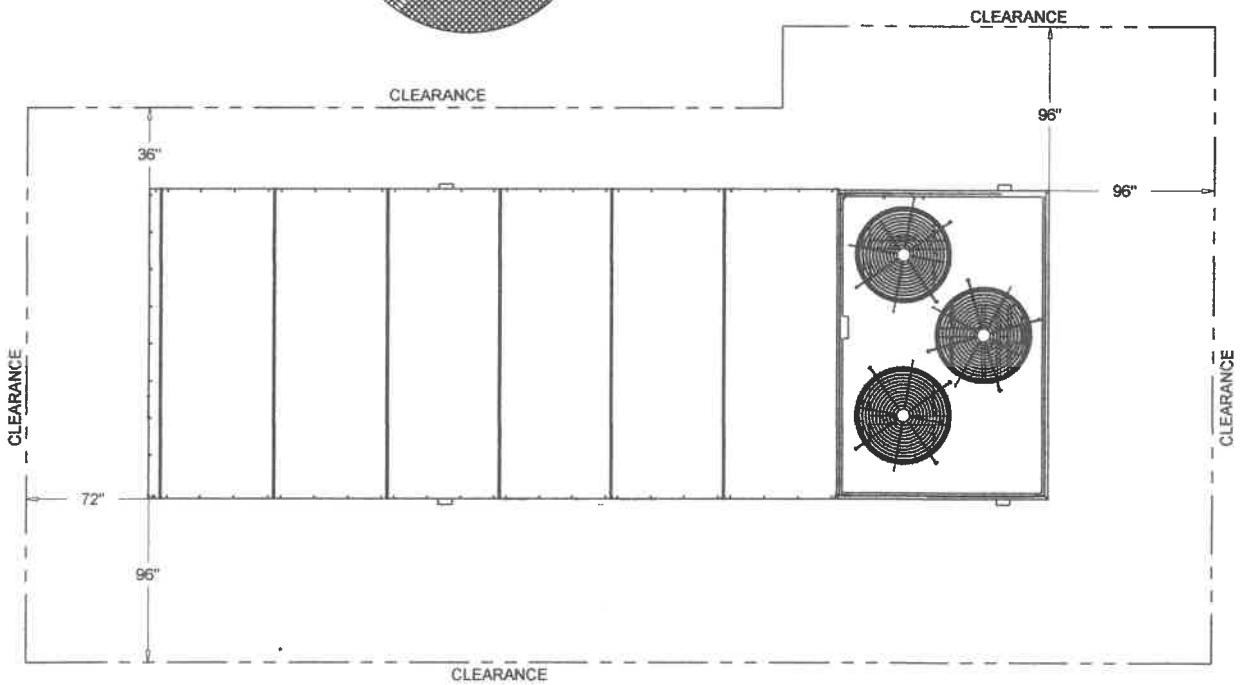
Notes:

- LOAD 1=Current of the largest motor (compressor or fan motor); LOAD 2=Sum of the currents of all remaining motors; LOAD 3 =Current of electric heaters
 LOAD 4 =Control Power Transformer (20-40 and 24-48 ton units add 3 FL amps for wire sizing formula, 50-75 and 59 - 89 ton units add 6 FL amps)
- For Electric Heat MCA, MOP, RDE values, calculate for both cooling and heating modes. (When determining LOADS, the compressors do not operate when the unit is in heating mode) (On 70-89 ton single source units, heating Load 4 = 12 amps on 200,230 volt units and 9 amps on 460,575 volt units)
- If selected Max Over Cur is less than the Min Cir Amp, then select the lowest maximum fuse size which is equal to or larger than the Min Cir Amp, provided the selected fuse size does not exceed 800 amps.
- If the selected Recommended Dual Element fuse size is greater than the selected Max Over Cur Protection value, then select the Recommended Dual Element fuse size value to equal the Max Over Protection value.
- Compressor KW at AHRI rating conditions of 80/67 -95
- Refrigerant charge is an approx. value. For a more precise value, see unit nameplate and service instructions.
- Sump Heater is an optional feature.
- Total Horsepower is the combined Horsepower for the Supply Fan Motors.

Weight, Clearance & Rigging Diagram - Commercial Rooftop Air Conditioning Units (Midrange)
Item: A1, A2 Qty: 2 Tag(s): J96E71502, J96E71503



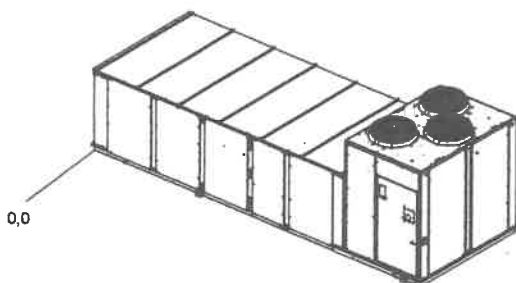
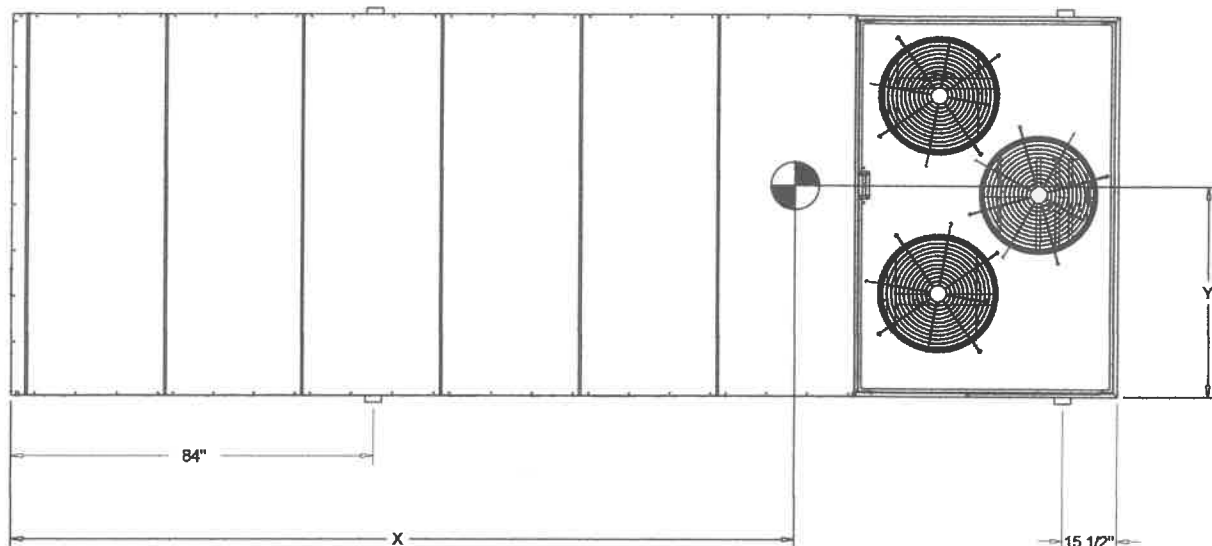
Note:
When 2 or more units are to be placed side by side, the distance between the units should be increased to 150% of the recommended single unit clearance. The units should also be staggered to reduce span deflection & assure proper diffusion of exhaust air.



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

Weight, Clearance & Rigging Diagram - Commercial Rooftop Air Conditioning Units (Midrange)

Item: A1 Qty: 1 Tag(s): J96E71502

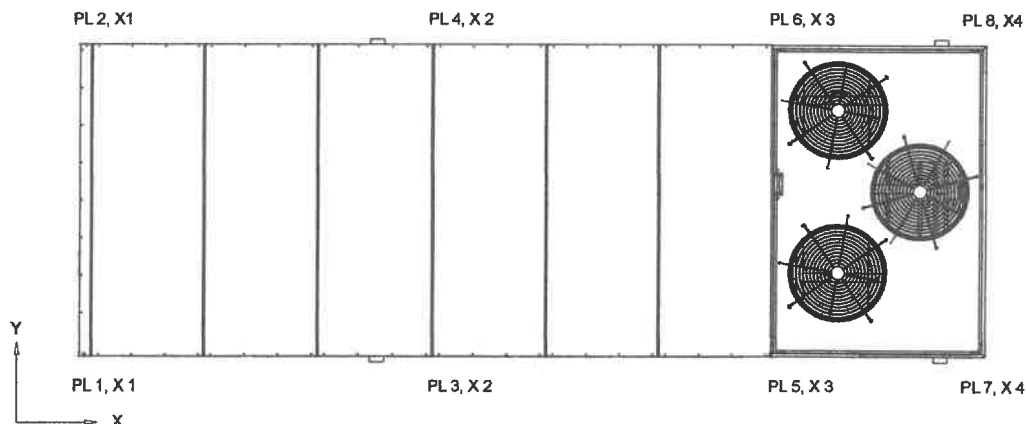


Center of Gravity X:	12.96 ft	Point load X location 1:	4.000 in
Center of Gravity Y:	3.76 ft	Point load X location 2:	104.000 in
Point Load 1:	416.3 lb	Point load X location 3:	199.000 in
Point Load 2:	404.5 lb	Point load X location 4:	238.000 in
Point Load 3:	556.2 lb	Point load X location 5:	N/A
Point Load 4:	544.4 lb	Point load X location 6:	N/A
Point Load 5:	689.1 lb	Point load X location 7:	N/A
Point Load 6:	677.3 lb	Point load X location 8:	N/A
Point Load 7:	743.7 lb	Point load Y location 1:	4.000 in
Point Load 8:	731.9 lb	Point load Y location 2:	87.000 in

Total Weight: 4763.5 lb
 Added Weight ⁽⁹⁾
 1. Double wall : N/A

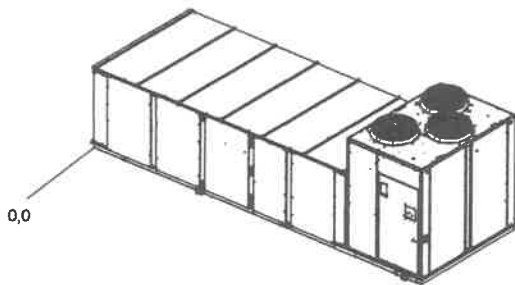
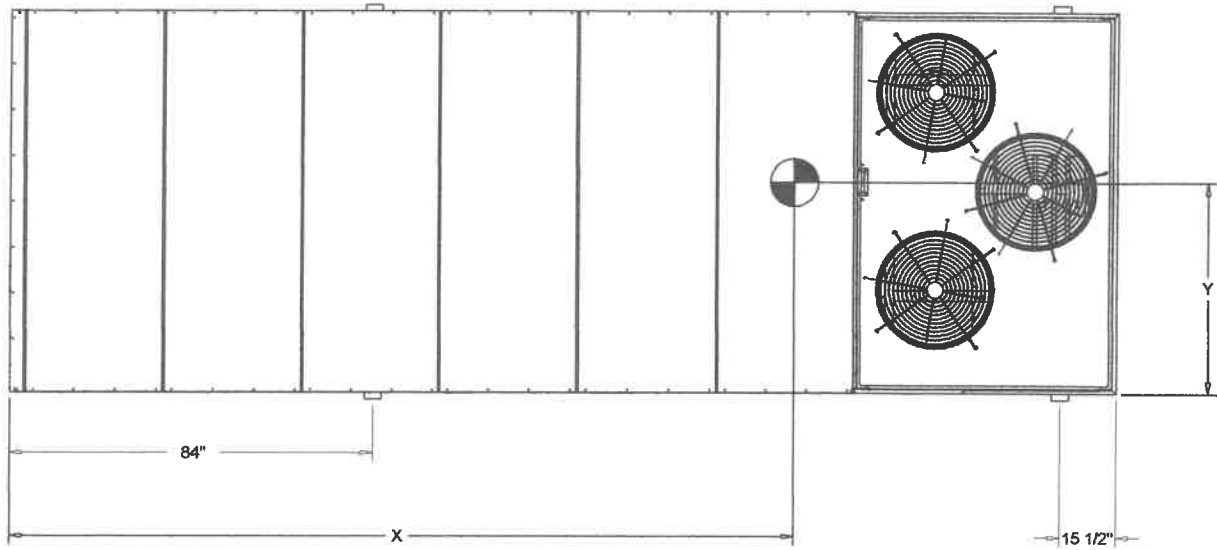
Notes:

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. Add weight to the total unit weight.
4. Design Special weights are not displayed. Any weight added through COD (Custom Order Design) will not be accounted in the +/- 10% estimate
5. 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.



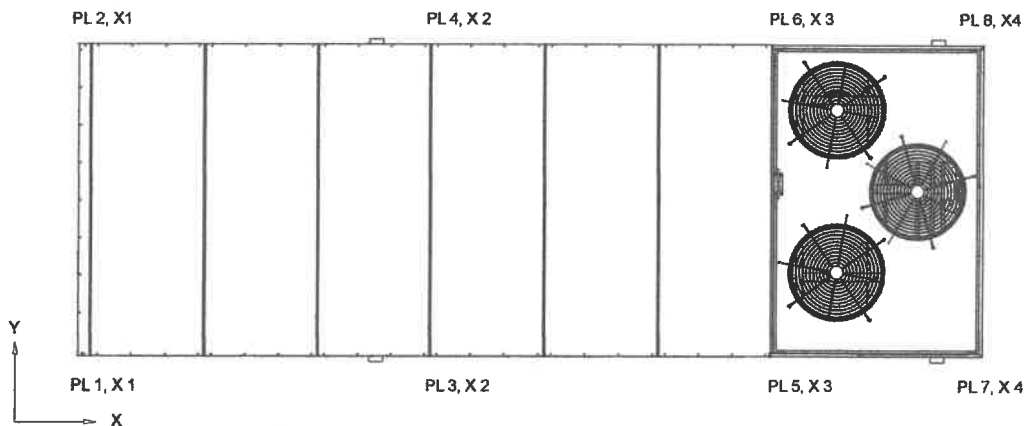
CENTER OF GRAVITY AND INSTALL WEIGHT X-Y POINTS
 AIR COOLED DRAWING

Weight, Clearance & Rigging Diagram - Commercial Rooftop Air Conditioning Units (Midrange)
 Item: A2 Qty: 1 Tag(s): J96E71503



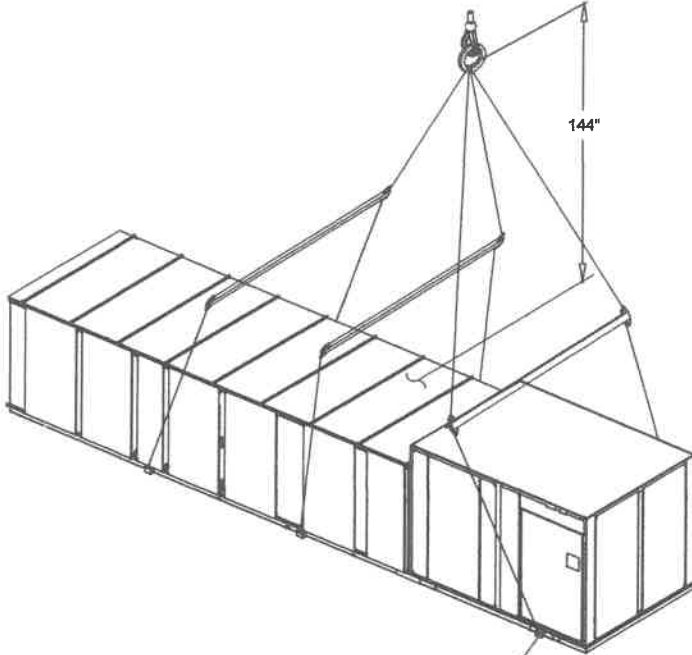
Center of Gravity X:	12.32 ft	Point load X location 1:	4.000 in
Center of Gravity Y:	3.73 ft	Point load X location 2:	104.000 in
Point Load 1:	582.2 lb	Point load X location 3:	199.000 in
Point Load 2:	538.6 lb	Point load X location 4:	238.000 in
Point Load 3:	657.4 lb	Point load X location 5:	N/A
Point Load 4:	633.9 lb	Point load X location 6:	N/A
Point Load 5:	747.9 lb	Point load X location 7:	N/A
Point Load 6:	724.4 lb	Point load X location 8:	N/A
Point Load 7:	785.1 lb	Point load Y location 1:	4.000 in
Point Load 8:	761.6 lb	Point load Y location 2:	87.000 in
Total Weight:	5411.2 lb		
Added Weight ⁽³⁾			
1. Double wall :	N/A		

- 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. Add weight to the total unit weight.
 4. Design Special weights are not displayed. Any weight added through COD (Custom Order Design) will not be accounted in the +/- 10% estimate
 5. 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.

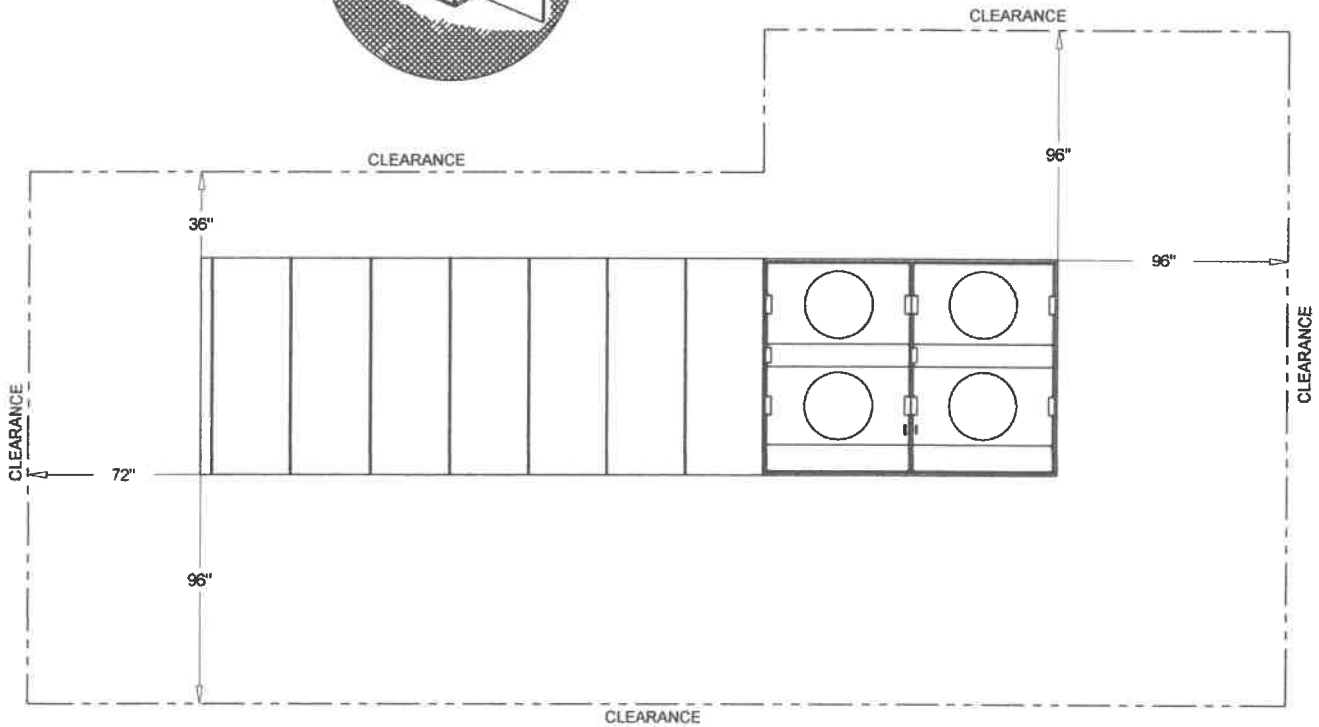
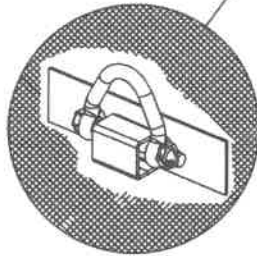


CENTER OF GRAVITY AND INSTALL WEIGHT X-Y POINTS
 AIR COOLED DRAWING

Weight, Clearance & Rigging Diagram - Commercial Rooftop Air Conditioning Units (Midrange)
Item: A3 Qty: 1 Tag(s): J96E71501

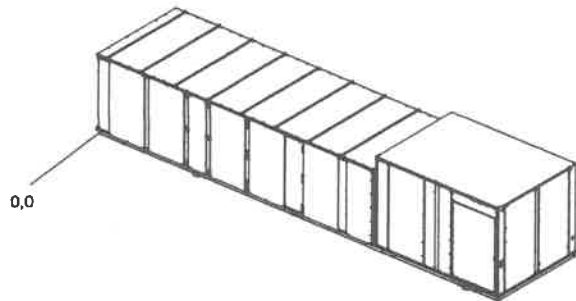
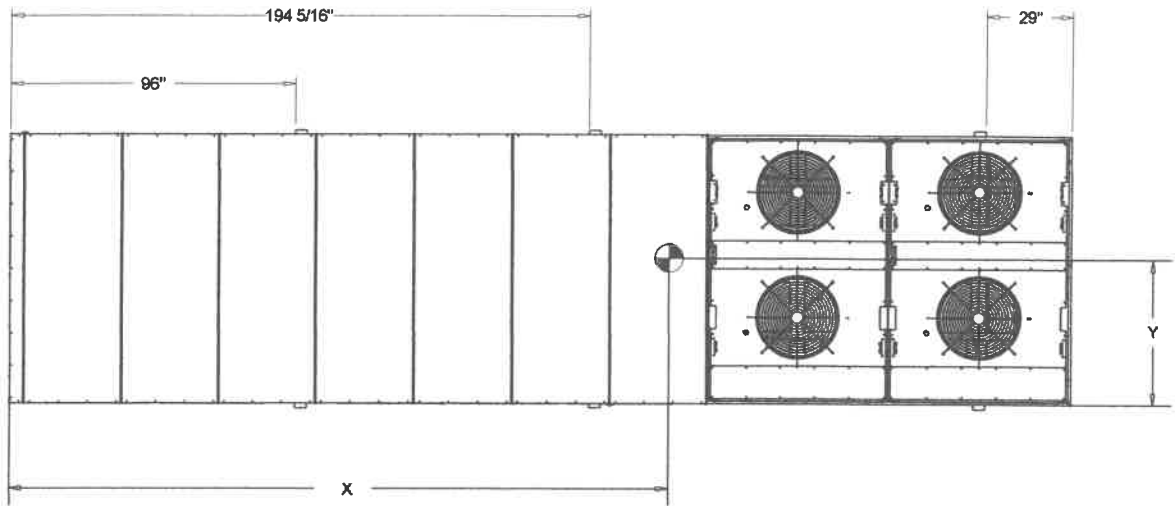


Note:
When 2 or more units are to be placed side by side, the distance between the units should be increased to 150% of the recommended single unit clearance. The units should also be staggered to reduce span deflection & assure proper diffusion of exhaust air.



RIGGING AND CLEARANCE
AIR COOLED DRAWING

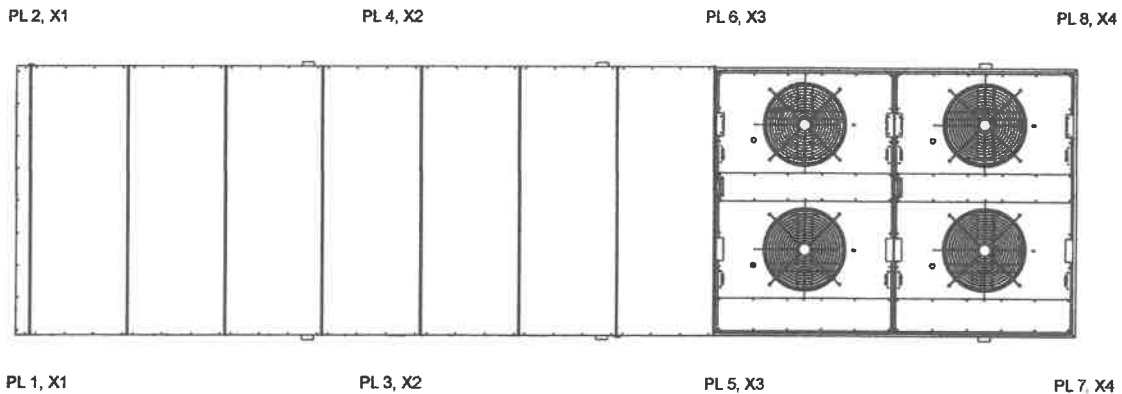
Weight, Clearance & Rigging Diagram - Commercial Rooftop Air Conditioning Units (Midrange)
 Item: A3 Qty: 1 Tag(s): J96E71501



Center of Gravity X:	15.16 ft	Point load X location 1:	4.000 in
Center of Gravity Y:	3.70 ft	Point load X location 2:	120.000 in
Point Load 1:	889.3 lb	Point load X location 3:	236.000 in
Point Load 2:	836.8 lb	Point load X location 4:	332.000 in
Point Load 3:	954.3 lb	Point load X location 5:	N/A
Point Load 4:	901.7 lb	Point load X location 6:	N/A
Point Load 5:	1019.2 lb	Point load X location 7:	N/A
Point Load 6:	966.7 lb	Point load X location 8:	N/A
Point Load 7:	1073.0 lb	Point load Y location 1:	4.000 in
Point Load 8:	1020.4 lb	Point load Y location 2:	87.000 in

Total Weight: 7661.4 lb
 Added Weight ^(B)
 1. Double wall : N/A

- 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. Add weight to the total unit weight.
 4. Design Special weights are not displayed. Any weight added through COD (Custom Order Design) will not be accounted in the +/- 10% estimate
 5. 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 - A3 Qty: 3 Tag(s): J96E71502, J96E71503, J96E71501

<p>⚠ WARNING HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.</p>	<p>⚠ AVERTISSEMENT TENSION DANGEREUSE! COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS A DISTANCE, PUIS SUIVRE LES PROCEDURES DE VERROUILLAGE ET DES ETIQUETTES AVANT TOUTE INTERVENTION. VERIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DECHARGES. DANS LE CAS D'UNITES COMPORTANT DES ENTRAINEMENTS A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAINEMENT POUR DECHARGER LES CONDENSATEURS. NE PAS RESPECTER CES MESURES DE PRECAUTION PEUT ENTRAINDER DES BLESSURES GRAVES POUVANT ETRE MORTELLES.</p>	<p>⚠ ADVERTENCIA ¡VOLTAJE PELIGROSO! DESCONECTE TODA LA ENERGIA ELECTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGURESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON EJE DE DIRECCION DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR. EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRIA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.</p>
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CAUTION
 USE COPPER CONDUCTORS ONLY!

 UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

 FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

ATTENTION
 N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!

 LES BORNES DE L'UNITE NE SONT PAS CONCUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

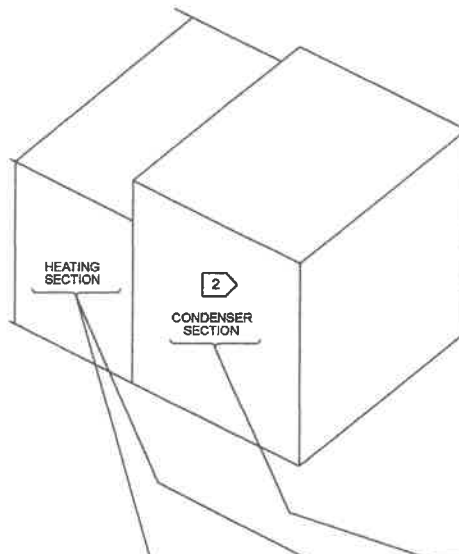
 L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'EQUIPEMENT.

PRECAUCION
 ¡UTILICE UNICAMENTE CONDUCTORES DE COBRE!

 LAS TERMINALES DE LA UNIDAD NO ESTAN DISENADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

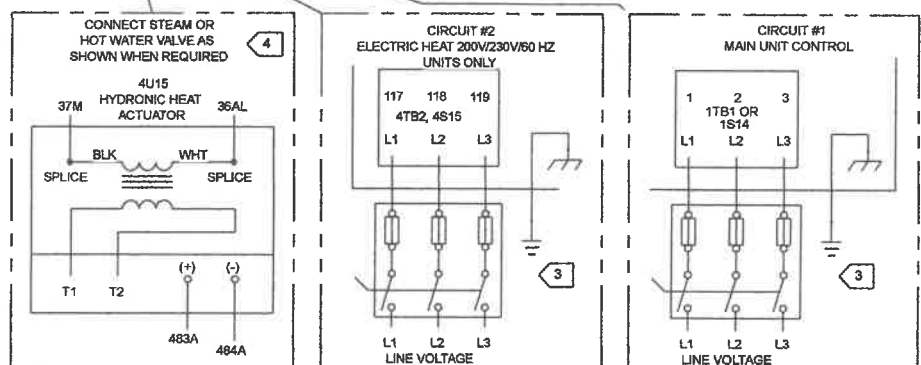
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Accessory - Commercial Rooftop Air Conditioning Units (Midrange)
Item: A1 Qty: 1 Tag(s): J96E71502



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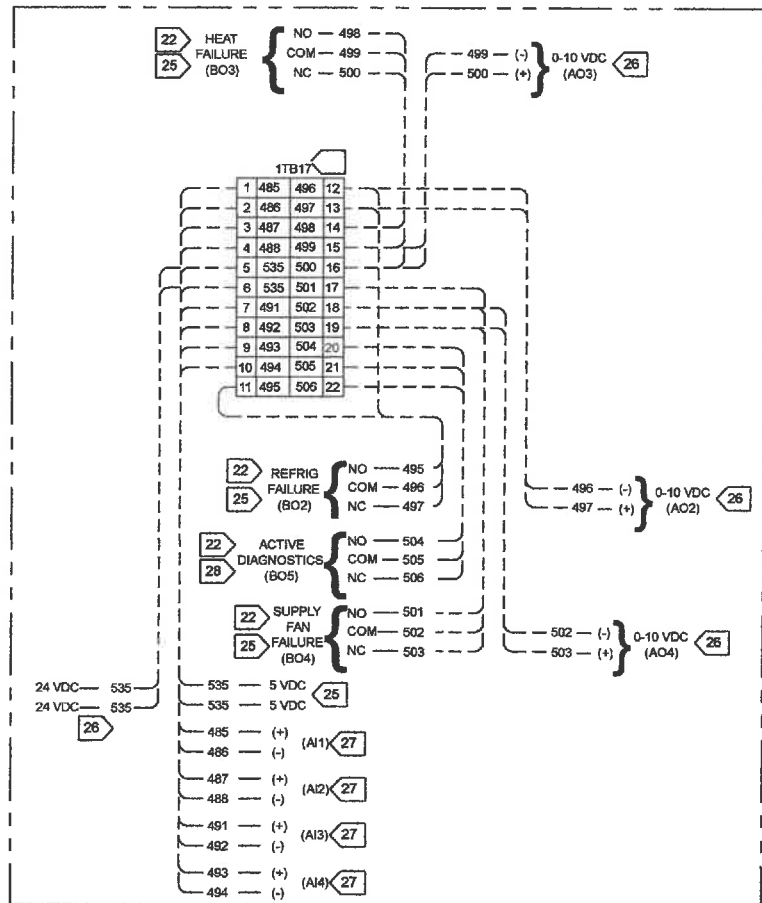
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Accessory - Commercial Rooftop Air Conditioning Units (Midrange)**Item: A1 - A3 Qty: 3 Tag(s): J96E71502, J96E71503, J96E71501****NOTES:**

- 1 ALL WIRING AND COMPONENTS SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL ELECTRICAL CODES.
- 2 CUSTOMER CONNECTIONS - MAIN UNIT CONTROL (CIRCUIT #1) - ARE LOCATED IN THE CONDENSER SECTION FOR 20 THRU 75 TON UNITS.
- 3 SEE CUSTOMER CONNECTION WIRE RANGE TABLE FOR ACCEPTABLE WIRE SIZES FOR CONNECTION TO MAIN UNIT TERMINAL BLOCK (1TB1/4TB2) OR DISCONNECT SWITCH (1S14/4S15).
- 4 WIRES TO THE OPTIONAL STEAM AND/OR HOT WATER HEAT VALVE ARE SUPPLIED WITH THE UNIT. WIRE CONNECTIONS TO THE VALVE TO BE MADE BY THE CUSTOMER.
- 6 OPTIONAL 5U57 REMOTE ZONE TEMP SENSOR IS USED FOR UNOCCUPIED HEAT/COOL TEMP CONTROL SENSING.
- 7 WHEN 5U69 REMOTE ZONE TEMP SENSOR IS USED, REMOVE 5U58 INTEGRAL ZONE TEMP SENSOR ATTACHED TO TERMINALS S1 AND S2.
- 8 WIRES USE SHIELDED TWISTED PAIR WIRE.
- 9 USE SHIELDED TWISTED PAIR WIRE. WRAP SHIELDS WITH TAPE TO PREVENT CONTACT WITH GROUND.
- 10 REMOVE JUMPER (1TB4-15 & 1TB4-16) AND INSTALL HIGH DUCT TEMP T-STAT /OR FIELD SUPPLIED DEVICE.
- 11 REMOVE JUMPER (1TB4-17 & 1TB4-18) WHEN FIELD SUPPLIED EXTERNAL AUTO/STOP SWITCH (5S67) IS INSTALLED.
- 12 CHANGEOVER (5K87) AVAILABLE ONLY ON HYDRONIC HEAT UNITS OR MODULATING GAS HEAT UNITS.
- 13 ALARM OUTPUT SWITCHES ON ANY MANUAL RESET DIAGNOSTIC.
- 14 OPTIONAL HEAT MODULE AUX. TEMP (5RT16) IS USED FOR MORNING WARM-UP CONTROL ON UNITS WITH HEATING OPTION.
- 15 TERMINAL BLOCK 1TB17 AND ASSOCIATED WIRING REQUIRED WITH GBAS (1U51) OPTION. DEMAND LIMIT RELAY (5K89) TO BE PROVIDED BY CUSTOMER.
- 16 VENTILATION OVERRIDE MODE CONTACTS RATED 12MA @ 24VDC MINIMUM (5K90 - 5K91 - 5K92 - 5K93 - 5K94) TO BE PROVIDED BY CUSTOMER.
- 17 WIRE NODES 533 & 534 REQUIRED WITH BAS/NETWORK COMM MODULE (1U54) OPTION. USE SHIELDED TWISTED PAIR WIRE.
- 18 FIELD CONNECTIONS TO DRIVE VAV BOXES FULL OPEN DURING NIGHT SETBACK MODE.
- 19 15A FUSE REPLACEMENT IS REQUIRED FOR 50 THRU 60 TON - 0.50 KVA TRANSFORMER WITH 200V - 230V - 460V OR 575V UNIT VOLTAGE.
20A FUSE REPLACEMENT IS REQUIRED FOR 50 THRU 60 TON - 0.50 KVA TRANSFORMER WITH 380V OR 415V UNIT VOLTAGE.
- 21 CONTACTS RATED 12 MA @ 24VDC MINIMUM.
- 22 CONNECT TO 24VAC CLASS 2 CIRCUITS ONLY.
- 23 REMOVE JUMPER WHEN OPTIONAL FIELD SUPPLIED OUTSIDE AIR SENSOR (3RT3) IS INSTALLED AND THE UNIT DOES NOT HAVE ECONOMIZER.
- 24 FIELD SUPPLIED AND INSTALLED OCCUPIED/UNOCCUPIED CONTACTS (5K86) FOR USE ON UNITS WITHOUT REMOTE PANEL WITH NIGHT SETBACK (5U58).
- 25 GBAS 0-5V OPTION CONNECTIONS.
- 26 GBAS 0-10V OPTION CONNECTIONS.
- 27 FOR GBAS INPUTS A11-A14, "GBAS 0-5V" REQUIRES 0-5V VDC AND "GBAS 0-10V" REQUIRES 0-10VDC.
- 28 "ACTIVE DIAGNOSTICS (B05)" APPEARS WITH BOTH "GBAS 0-5V" AND "GBAS 0-10V".
- 29 SEE FUSE REPLACEMENT TABLE ON VFD PANEL FOR VFD POWER FUSES (F40, F41, F42).
- 30 SWITCH A53, LOCATED ON THE VFD, MUST BE SET TO "U" (OFF).

Accessory - Commercial Rooftop Air Conditioning Units (Midrange)
Item: A1 - A3 Qty: 3 Tag(s): J96E71502, J96E71503, J96E71501

FUSE REPLACEMENT TABLE												
CONDENSER FAN FUSE 1F1 THRU 1F6 CLASS RK5	UNIT VOLTAGE	200	230	380	415	460	575					
	TIME DELAY	25A	25A	15A	15A	15A	15A					
CONTROL POWER FUSE												
CONTROL (1T1) TRANSFORMER RATING		0.25 KVA	0.30 KVA	0.50 KVA	0.75 KVA	1.00 KVA	1.50 KVA					
1F7 CLASS CC - TYPE FNQ-R	20-30 TON	6.25A	6.25A	--	10A	--	--					
	40 TON	15A	20A	--	20A	--	--					
	50-60 TON	--	--	15A	--	20A	--					
	70-75 TON	--	--	--	--	15A	20A					
ELECTRIC HEAT FUSE	4F19 THRU 4F36, 4F46, 47, 48				CLASS K5			60A				
COMPRESSOR PROTECTION FUSE	1F44 & 1F45				TYPE MTH			6A				
TRANSFORMER CIRCUIT FUSE	1F72 THRU 1F74				TYPE FNQ-R			15A				
VFD PROTECTION FUSES (CLASS "T" FUSES) OPTIONAL SUPPLY VFD 1F57 - 1F62, OPTIONAL EXHAUST / RETURN VFD 1F63-1F65												
BELT DRIVE MOTOR 20-130 UNITS	UNIT VOLTAGE	FUSE RATING	3 HP	5 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP
	200V/60/3	600V	40A	60A	80A	100A	150A	200A	225A	300A	350A	N/A
	230V/60/3	600V	30A	45A	70A	90A	125A	175A	200A	250A	300A	N/A
	380V/50/3	600V	15A	30A	45A	50A	90A	100A	125A	150A	200A	N/A
	415V/50/3	600V	15A	30A	45A	50A	90A	100A	125A	150A	200A	N/A
	460V/60/3	600V	15A	25A	35A	45A	60A	90A	100A	125A	150A	200A
	575V/60/3	600V	15A	15A	25A	35A	50A	70A	60A	100A	125A	175A
OPTIONAL DIRECT DRIVE MOTOR 20-59 UNITS	UNIT VOLTAGE	FUSE RATING	3 HP	5 HP	7.5 HP	10 HP	15 HP 1K-1.6K RPM	15 HP 1.7K-2.4K RPM	20 HP	25 HP	30 HP	
	200V/60/3	600V	40A	60A	80A	100A	150A	150A	200A	225A	300A	
	230V/60/3	600V	25A	45A	70A	90A	125A	125A	175A	200A	250A	
	460V/60/3	600V	15A	25A	35A	45A	70A	60A	90A	100A	125A	
	575V/60/3	600V	15A	15A	25A	35A	50A	50A	70A	80A	100A	
OPTIONAL DIRECTM DIVE MOTOR 60-89 TON	UNIT VOLTAGE	FUSE RATING	10HP	15 HP 1K-1.6K RPM	15 HP 1.7K-2.4K RPM	20HP	30 HP 1K-1.6K RPM	30 HP 1.7-2.4K RPM	40HP	50HP		
	200V/60/3	600V	125A	175A	150A	200A	300A	150A	350A	N/A		
	230V/60/3	600V	95A	150A	125A	175A	250A	250A	300A	N/A		
	460V/60/3	600V	45A	70A	60A	90A	125A	125A	150A	200A		
	575V/60/3	600V	40A	60A	50A	70A	125A	100A	125A	175A		
CUSTOMER CONNECTION WIRE RANGE												
NOTES: A. BLOCK SIZE & DISCONNECT SIZE 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.	UNITS WITH MAIN POWER TERMINAL BLOCK (ALL VOLTAGES)						UNITS WITH MAIN POWER DISCONNECT SWITCH (ALL VOLTAGES)					
	BLOCK SIZE	WIRE QTY	CONNECTOR WIRE RANGE			DISCONNECT SIZE	WIRE QTY	CONNECTOR WIRE RANGE				
	335 AMP	(1)	#6 - 350 MCM			100 AMP	(1)	#14 - 1/0				
	760 AMP	(2)	#4 - 500 MCM			250 AMP	(1)	#4 - 350 kcmil				
	840 AMP	(2)	#2 - 600 MCM			400 AMP	(1) OR	#1 - 600 kcmil OR				
							(2)	#1 - 250 kcmil				
						600 AMP	(2)	250 - 500 MCM				
					1000 AMP	(3)	3/0 - 500 kcmil					
OPTIONAL CONVENIENCE OUTLET FUSE		200V/60/3	230V/60/3	380V/50/3	415V/50/3	460V/60/3	575V/60/3					
1F55 AND 1F56 (TIME DELAY TYPE FNQ-R FUSE)		12A	10A	N/A	N/A	5A	4A					

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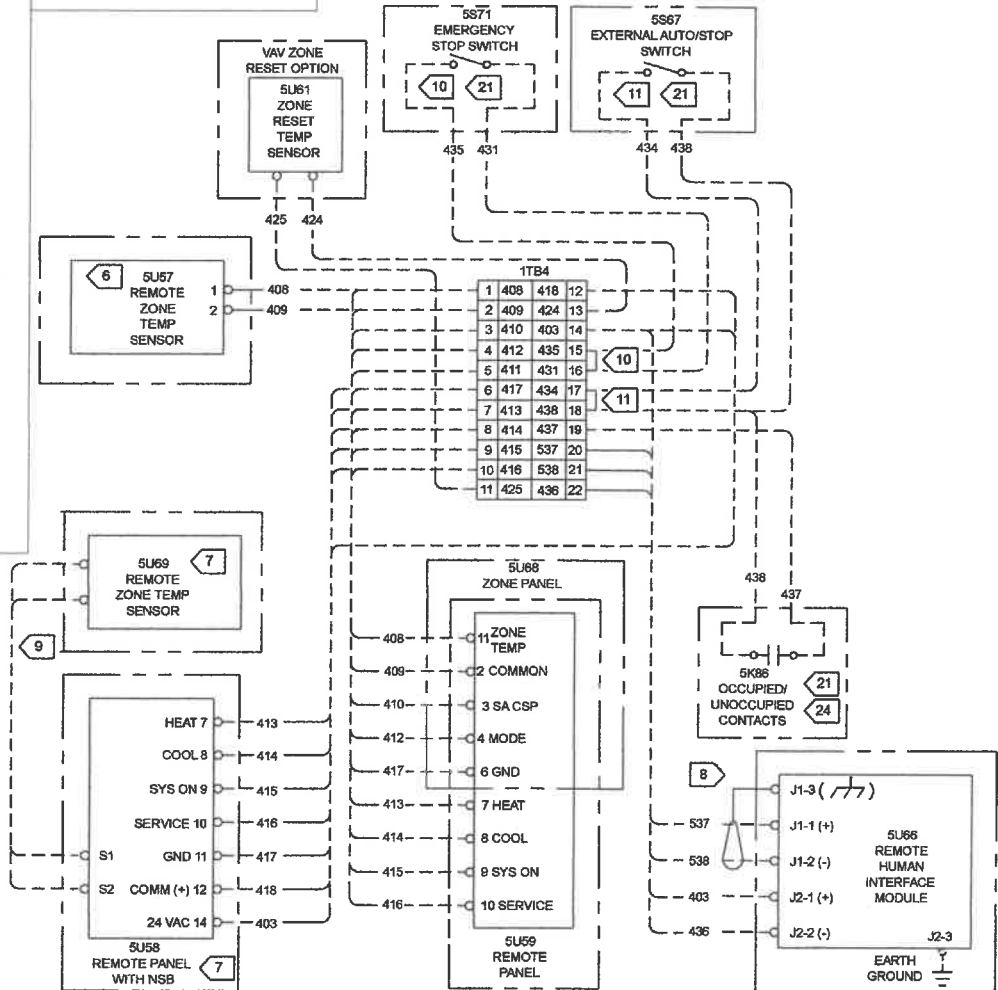
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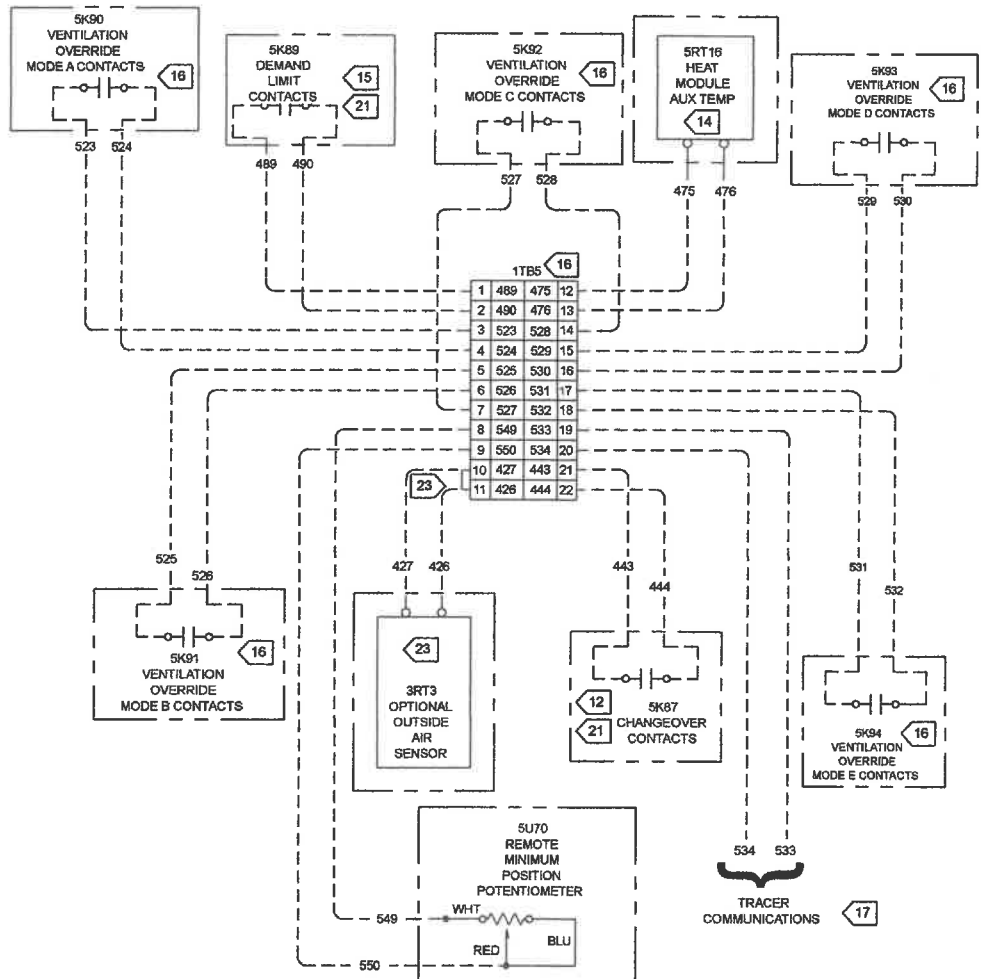
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