Submittal

Prepared For:
All Bidders

Date: November 03, 2023

Job Name:
Kroger L350 Louisville KY

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

Product Summary

Qty	Product
2	Packaged Rooftop, Cooling / Heating Units
1	Y4C
1	6- 25 Ton PKGD Precedent Unitary Rooftops

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.

Coordination details:

- No curbs or adapter curb provided in this proposal

Ryan Stephens on behalf of:
Jeff Betz - Trane U.S. Inc.
2300 CityGate Drive, Suite 100
Columbus, OH 43219
For questions on this project call 866-415-2499, Option #4 - - or email: kroger@trane.com

This proposal is subject to your acceptance of the attached Trane terms and conditions.

Table of Contents

Tag Data - Packaged Rooftop, Cooling / Heating Units (Qty: 2)

Item	Tag(s)	Qty	Description	Model Number
A1	AC-1, AC-2	2	50 ton VOY3 - HGRH, CV	YCH600CEH*0B4NE80B*D***HJB01K0*TN00E0000X********2

Product Data - Packaged Rooftop, Cooling / Heating Units
Item: A1 Qty: 2 Tag(s): AC-1, AC-2

Standard Unit
DX Cooling, natural gas heat
Horizontal supply and horizontal return
50 ton 60 Hertz
R-410A
208 Volt 60 Hertz 3 Phase
High gas heat capacity
2" MERV 8 High efficiency, throwaway filters
20 hp supply motor
725 RPM
0-100% Economizer, differential enthalpy control
Multi-speed fan
Thru-the-base electrical provision
Factory powered ground fault convenience outlet with disconnect switch
Hinged service access doors
Condenser coil guards
Adv Ctrl & BACnet/Modbus Comm. (BCI)
5k SCCR
Pre-painted steel drain pan w/ condensate overflow switch
eStage, High efficiency unit
Modulating hot gas reheat
Wall mounted humidity sensor (Field Installed)

The following items are excluded (pkg):

- If not specifically listed, extra filters, extra belts, extra sheaves, thermostat, external isolation, air balance, curb adapter, roof curb, hurricane ties downs and wind load calculations, condensate overflow switch and start up are not included. ***Labor warranty to be provided by the installing contractor if not purchased.***

Performance Data - 27 1/2-50 Ton Packaged Commercial Rooftop (VOYAGER3)

Tags	AC-1, AC-2
Derated Input Heating Capacity (MBh)	800.00
Design airflow (cfm)	15000
Elevation (ft)	0.00
Cooling EDB (F)	81.50
Cooling EWB (F)	66.30
Ambient temp (F)	95.00
Leaving unit DB (F)	56.97
Leaving unit WB (F)	55.10
Leaving coil DB (F)	53.83
Leaving coil WB (F)	53.77
Gross total capacity (MBh)	559.77
Gross sensible capacity (MBh)	448.45
Gross latent capacity (MBh)	111.32
Net total capacity (MBh)	517.62
Net sensible capacity (MBh)	406.29
Net sensible heat ratio (%)	0.78
Input htg capacity (MBh)	800.00
Output htg capacity (MBh)	648.00
Heating EAT (F)	52.25
Heating LAT (F)	92.43
Heating delta T (F)	40.18
ESP (in H2O)	1.500
Total static pressure (in H2O)	3.290
Actual Supply Motor BHP (bhp)	16.55
Indoor speed (rpm)	737
Supply Motor Power (kW) (kW)	12.35
Outdoor motor power (kW)	0.00
Compressor power (kW)	39.86
System power (kW)	56.48
EER @ AHRI (EER)	9.9
IEER @ AHRI (EER)	14.6
Min circuit ampacity (A)	246.00
Max overcurrent protection (A)	300.00
Min disconnect switch size (A)	250.00
Compressor 1 RLA (A)	40.30
Compressor 2 RLA (A)	57.90
Compressor 3 RLA (A)	57.90
Supply fan FLA (A)	56.10
Condenser fan FLA (A)	4.40
Condenser fan count (Each)	4.00
Exhaust fan FLA (A)	0.00
Exhaust fan count (Each)	0.00
Electric heater FLA (A)	0.00
Crankcase heater FLA (A)	1.00
Max Condenser Ambient (F)	115.00
Ambient Temp Calc (F)	-20.00
Estimated operating weight (lb)	6129.0
Discharge duct - 63 Hz (dB)	99
Discharge duct - 125 Hz (dB)	92
Discharge duct - 250 Hz (dB)	83
Discharge duct - 500 Hz (dB)	84
Discharge duct - 1 kHz (dB)	78
Discharge duct - 2 kHz (dB)	76

Tags	**AC-1, AC-2**
Discharge duct - 4 kHz (dB)	72
Discharge duct - 8 kHz (dB)	67
Return duct - 63 Hz (dB)	91
Return duct - 125 Hz (dB)	90
Return duct - 250 Hz (dB)	85
Return duct - 500 Hz (dB)	82
Return duct - 1 kHz (dB)	77
Return duct - 2 kHz (dB)	75
Return duct - 4 kHz (dB)	75
Return duct - 8 kHz (dB)	76
Outdoor - 63 Hz (dB)	104
Outdoor - 125 Hz (dB)	97
Outdoor - 250 Hz (dB)	96
Outdoor - 500 Hz (dB)	97
Outdoor - 1 kHz (dB)	95
Outdoor - 2 kHz (dB)	93
Outdoor - 4 kHz (dB)	88
Outdoor - 8 kHz (dB)	79
Refrig charge - ckt 1 (lb)	69.6
Entering DX DB in HGRH (F)	73.00
Entering DX WB in HGRH (F)	64.00
Ambient in HGRH mode (F)	75.00
Reheat Setpoint (LUDB in HGRH) (F)	70.00
Reheat latent capacity (MBh)	228.25
Reheat sensible capacity (MBh)	285.07
Leaving unit dew point in HGRH (F)	49.99
Moisture removal (gpm)	0.41
Replication Run	275

Mechanical Specifications - Packaged Rooftop, Cooling / Heating Units
Item: A1 Qty: 2 Tag(s): AC-1, AC-2

Hinged Service Access
Filter access panel and supply fan access panel shall be hinged for ease of unit service.

High Efficiency Unit (eStage)
This option shall provide five stages of mechanical cooling with the ability to be at or below 25% compressor displacement at stage one. Service valves shall also be provided factory installed and include suction and discharge 3-way shutoff valves.

Modulating Hot Gas Reheat
A reheat condenser coil shall be factory installed downstream of the unit evaporator coil. Modulating 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 valve shall always apply to circuit 1.

Phase and Voltage Monitor
Standard on all Voyager Commercial units. Shall protects 3-phase equipment from phase loss, phase reversal, and low voltage. Any fault condition shall send the unit into an auto stop condition. cULus approved.

Refrigerant Circuits
Each refrigerant circuit shall have independent thermostatic expansion devices, service pressure ports and refrigerant line filter driers factory-installed as standard. An area shall be provided for replacement suction line driers.

Outdoor Fans
The outdoor fan shall be direct-drive statically and dynamically balanced, draw through in the vertical discharge position. The fan motors shall be permanently lubricated and have built-in thermal overload protection.

Condensate Overflow Switch
This option shall shut the unit down in the event that a clogged condensate drain line prevents proper condensate removal from the unit.

Condenser Coil Guards
Factory installed condenser vinyl coated wire mesh coil guards shall be available to provide full area protection against debris and vandalism.

High/Low 2 Stage Gas Heat
The heating section shall have a drum and tube heat exchanger(s) design with primary and secondary surfaces of corrosion resistant aluminized steel or optional stainless steel. A forced combustion blower shall supply premixed fuel to a single burner ignited by a pilotless hot surface ignition system. In order to provide reliable operation, a regulated gas valve shall be used that requires blower operation to initiate gas flow. On an initial call for heat, the combustion blower shall purge the heat exchanger(s) 45 seconds before ignition. After three unsuccessful ignition attempts, the entire heating system shall be locked out until manually reset at the thermostat. Two stage gas heat units shall be suitable for use with natural gas or propane (field installed kit).

Indoor Fan, 60 Hz Supply Motor
Unit will have belt driven, forward curve, centrifugal fans with fixed motor sheaves. The supply fan motors will be circuit breaker protected. All 60 Hz supply fan motors meet the Energy Independence and Security Act of 2009 (EISA).

2" High Efficiency Filters - MERV 8
2" High Efficiency MERV 8 filters will be standard.

Economizer w Differential Enthalpy Control
Economizer shall be factory installed. The assembly shall include: fully modulating 0-100 percent motor and dampers, minimum position setting, preset linkage, wiring harness, and fixed dry bulb control. Differential enthalpy control shall be a factory or field installed option.

Controls
Unit shall be completely factory wired with necessary controls and terminal block for power wiring. Units shall provide an external location for mounting fused disconnect device. The controls shall be provided for all 24 volt control functions. The resident control algorithms shall make all heating, cooling and/or ventilating decisions in response to electronic signals from sensors measuring indoor and outdoor temperatures. The control algorithm maintains accurate temperature control, minimizes drift from set point and provides better building comfort. The controls shall provide anti-short cycle timing and time delay between compressors to provide a higher level of machine protection.

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.

Through-The-Base Electrical Provision
An electrical service entrance shall be provided which allows access to route all high and low voltage electrical wiring inside the curb, through the bottom of the outdoor section of the unit and into the control box area.

Non-Fused Disconnect Switch
A factory installed non-fused disconnect switch with external handle shall be provided and shall satisfy NEC requirements for a service disconnect. The non-fused disconnect shall be mounted inside the unit control box.

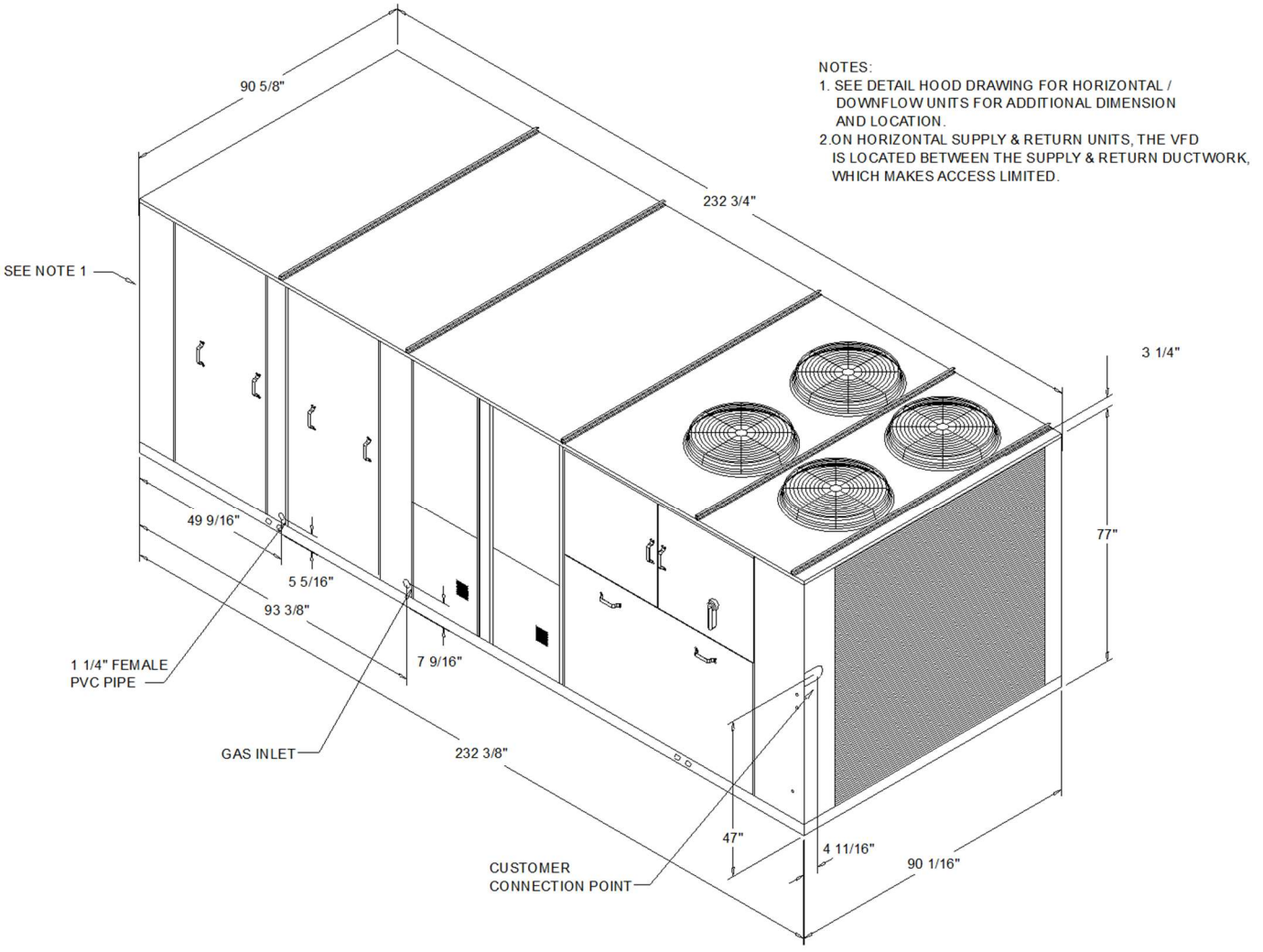
GFI Convenience Outlet (Factory Powered)
A 15A, 115V Ground Fault Interrupter convenience outlet shall be factory installed. It shall be wired and powered from a factory mounted transformer. Unit mounted non-fused disconnect with external handle shall be furnished with factory powered outlet.

BACnet Communications
The BACnet communications interface shall allow the unit to communicate directly with a generic open protocol BACnet MS/TP Network Building Automation System Controls.

Humidity Sensor
This wall or duct-mounted humidity sensor shall be used to control activation of the hot gas reheat dehumidification option. The humidity sensor can be set for humidity levels between 40% and 60% relative humidity.

Certified AHRI Performance
Packaged Rooftop units cooling, heating capacities and efficiencies are 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 Z83.8/CSA 2.6and 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

Dimensional Drawings - Packaged Rooftop, Cooling / Heating Units
Item: A1 Qty: 2 Tag(s): AC-1, AC-2



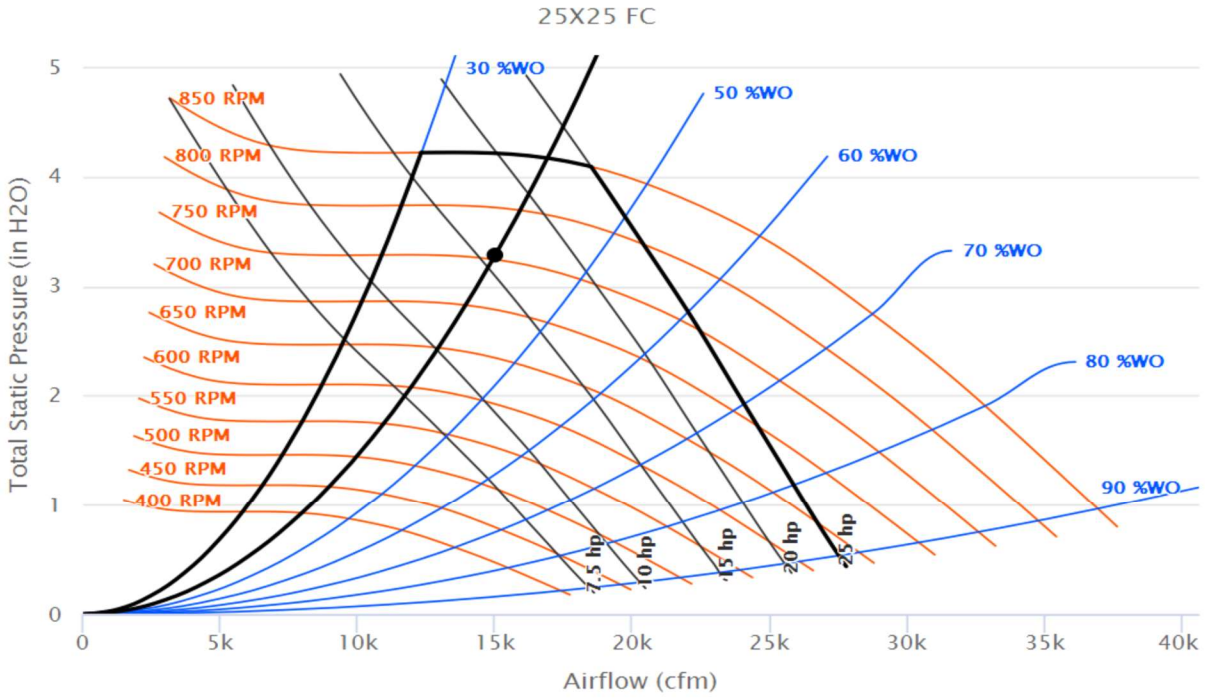
HORIZONTAL SUPPLY AND HORIZONTAL RETURN CONFIGURATION

DIMENSIONAL DRAWING

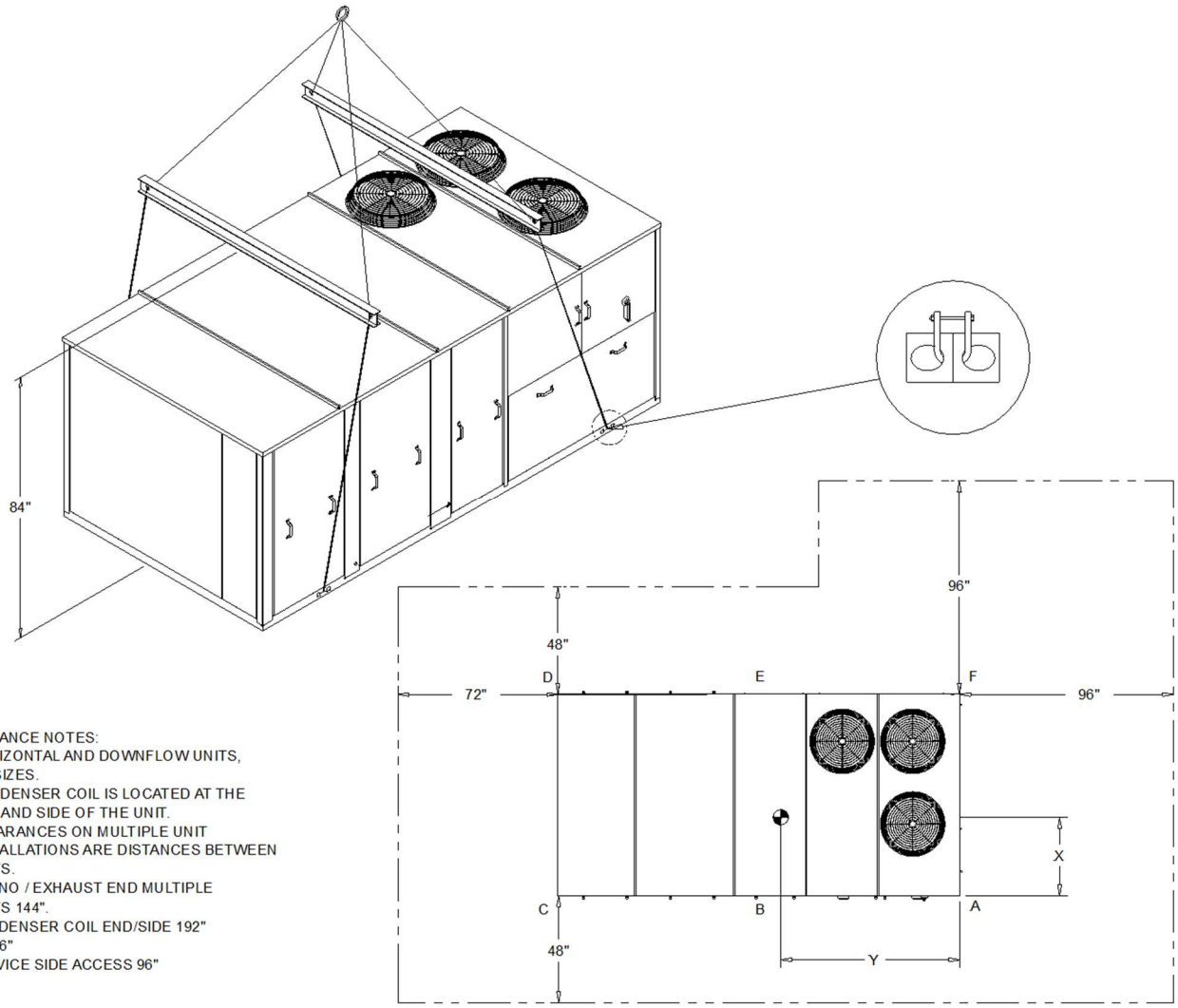
Fan Curve - Packaged Rooftop, Cooling / Heating Units
Item: A1 Qty: 2 Tag(s): AC-1, AC-2

Fan Details

Unit Size		**Operating Brake Power**	16.55 bhp
Operating Airflow	15,000 cfm	**Altitude**	0.00 ft
Operating Static Pressure	3.290 in H2O	**Design Temp.**	81.50 F
Operating RPM	737 rpm		



Weight, Clearance & Rigging - Packaged Rooftop, Cooling / Heating Units
Item: A1 Qty: 2 Tag(s): AC-1, AC-2

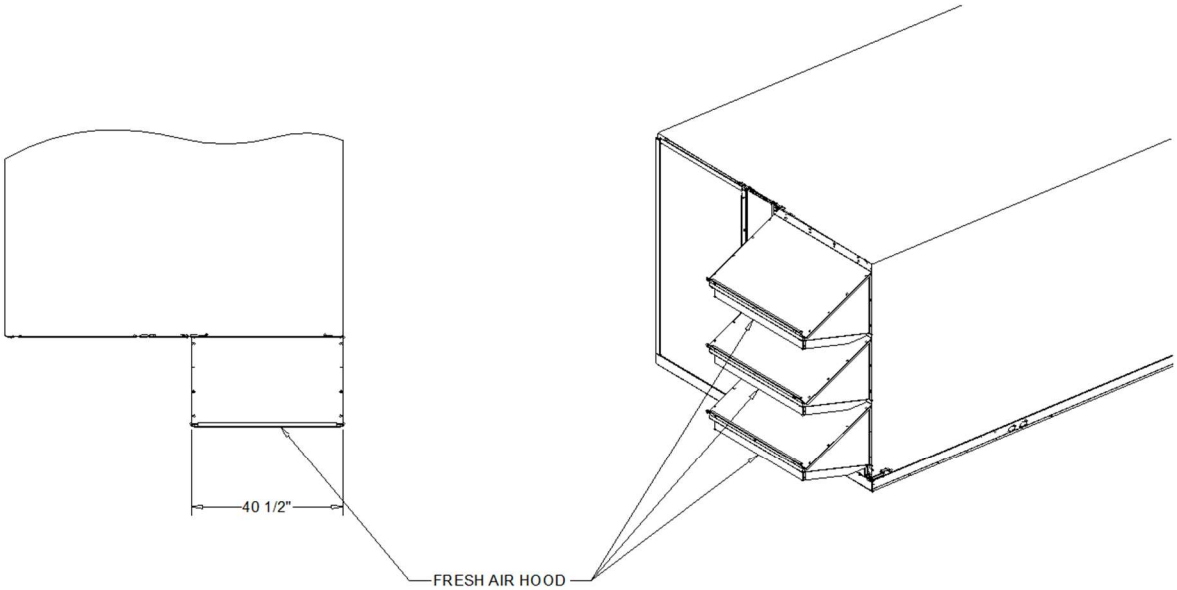


CLEARANCE NOTES:
1. HORIZONTAL AND DOWNFLOW UNITS, ALL SIZES.
2. CONDENSER COIL IS LOCATED AT THE END AND SIDE OF THE UNIT.
3. CLEARANCES ON MULTIPLE UNIT INSTALLATIONS ARE DISTANCES BETWEEN UNITS.
4. ECONO / EXHAUST END MULTIPLE UNITS 144".
5. CONDENSER COIL END/SIDE 192" TO 96"
6. SERVICE SIDE ACCESS 96"

ESTIMATED OPERATING WEIGHT											
OPERATION WEIGHT: 6,129.0 lb											
CENTER OF GRAVITY						OPTIONAL COMPONENTS					
X	43"		Y	108"		POWER EXHAUST	N/A	BARO. RELIEF	N/A	SERVICE VALVES	N/A
CORNER LOADING PERCENTS						ECONOMIZER	300~wt>>	THRU-BASE ELECTRICAL	N/A 6.0 lb	DISC. SWITCH	N/A
A	B	C	D	E	F	MANUAL DAMPERS	N/A	GFI WITH DISCON. SWITCH	85.0 lb	VFD	N/A
17%	18%	18%	14%	16%	16%	ULTRA LOW LEAK EXH.	N/A	ULTRA LOW LEAK ECON	N/A		
						COIL HAIL GUARD	130.0 lb	MOD. HOT GAS REHEAT	112.0 lb		

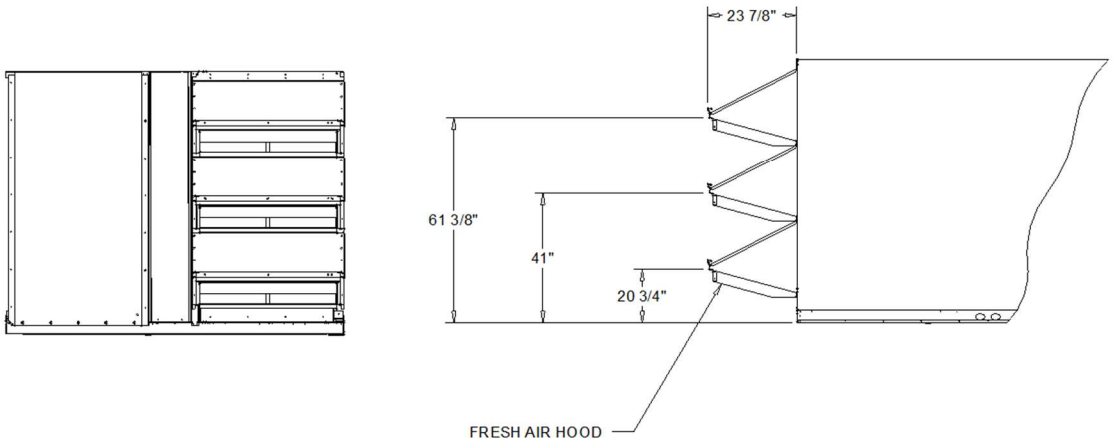
WEIGHT NOTES:
1. THE WEIGHT SHOWN REPRESENTS THE TYPICAL UNIT OPERATING WEIGHT FOR THE CONFIGURATION SELECTED. ESTIMATED AT +/- 10 % OF THE NAMEPLATE WEIGHT.
2. THE ACTUAL WEIGHT IS STAMPED ON THE UNIT NAMEPLATE.

Accessory - Packaged Rooftop, Cooling / Heating Units
Item: A1 Qty: 2 Tag(s): AC-1, AC-2



TOP VIEW
DIMENSIONAL DRAWING

ISOMETRIC VIEW
PARTIAL DRAWING

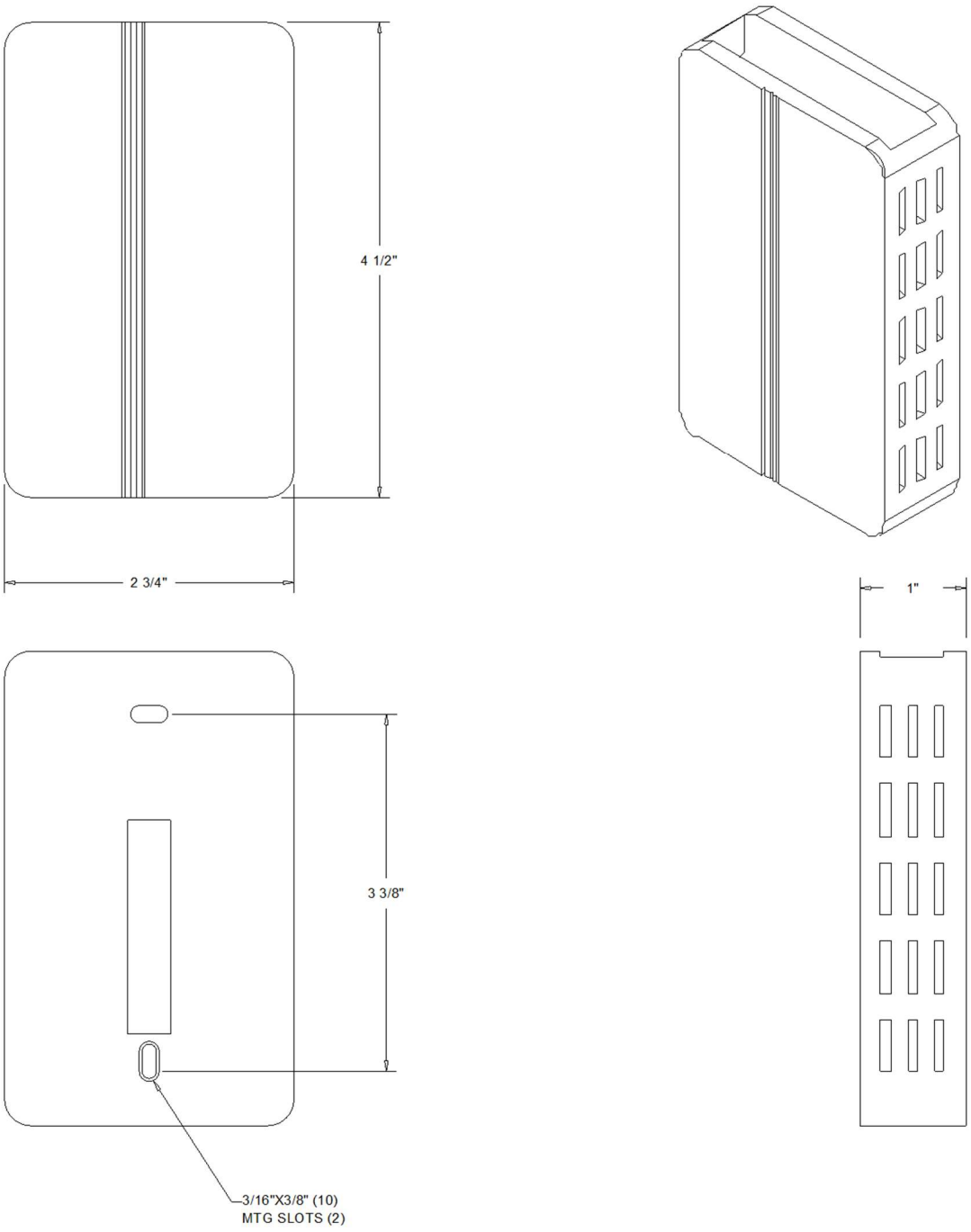


BACK VIEW
DIMENSIONAL DRAWING

SIDE VIEW
DIMENSIONAL DRAWING

40-50 TON FRESH AIR HORIZONTAL CONFIGURATION
DIMENSIONAL DRAWING

Accessory - Packaged Rooftop, Cooling / Heating Units
Item: A1 Qty: 2 Tag(s): AC-1, AC-2



BAYSENS036 - HUMIDITY WALL MOUNTED SENSOR

Tag Data - Y4C (Qty: 1)

Item	Tag(s)	Qty	Description	Model Number
B1	AC-3	1	3 Ton - base	YHC036E3RLA**B0C1A1B0000G000001000000000

Product Data - Y4C

Item: B1 Qty: 1 Tag(s): AC-3

DX cooling, gas heat
High efficiency
Convertible configuration
3 Ton
208-230/60/3
Microprocessor controls
Low gas heat
Motorized damper 0-50% 3hp
Hinged panels/2 in pleated filters MERV 8
Standard condenser coil w/hail guard
Through the base electrical
Non-fused disconnect
Powered convenience outlet
Fan failure switch, discharge air sensing & Condensate Drain Pan Overflow Switch
Human Interface
Remote room sensor (Field Installed)

The following items are excluded (pkg):

- If not specifically listed, extra filters, extra belts, extra sheaves, thermostat, external isolation, air balance, curb adapter, roof curb, hurricane ties downs and wind load calculations, condensate overflow switch and start up are not included. ***Labor warranty to be provided by the installing contractor if not purchased.***

Performance Data - 3-10 Ton R-410A PKGD Unitary Gas/Electric Rooftop (Y4C)

Tags	AC-3
Design Airflow (cfm)	960
Airflow Application	Downflow
Elevation (ft)	0.00
Cooling Entering DB (F)	78.80
Cooling Entering WB (F)	65.14
Ent Air Relative Humidity (%)	48.21
Ambient Temp (F)	96.80
Evap Coil Leaving Air Temp (DB) (F)	54.40
Evap Coil Leaving Air Temp (WB) (F)	52.56
Cooling Leaving Unit DB (F)	56.28
Cooling Leaving Unit WB (F)	53.35
Gross Total Capacity (MBh)	35.11
Gross Sensible Capacity (MBh)	25.30
Gross Latent Capacity (MBh)	9.81
Net Total Capacity (MBh)	33.70
Net Sensible Capacity (MBh)	23.89
Net Sensible Heat Ratio (Number)	0.71
Heating EAT (F)	57.92
Heating LAT (F)	104.42
Heating Delta T (F)	46.50
Input Heating Capacity (MBh)	60.00
Output Heating Capacity (MBh)	48.00
Output Heating Cap. w/Fan (MBh)	49.41
Design ESP (in H2O)	1.000
Component SP (in H2O)	0.070
Indoor mtr operating power (bhp)	0.46
Indoor RPM (rpm)	1017
Indoor Motor Power (kW)	0.34
Outdoor Motor Power (kW)	0.22
Compressor Power (kW)	2.68
System Power (kW)	3.24
MCA (A)	21.00
MOP (A)	30.00
Compressor 1 RLA (A)	10.40
Compressor 2 RLA (A)	0.00
Evaporator fan FLA (A)	6.00
Condenser fan FLA (A)	1.50
Evaporator face area (sq ft)	7.71
Evaporator rows (Each)	3.00
Evaporator fin spacing (Per Foot)	192
Evaporator face velocity (ft/min)	125
Min. unit operating weight (lb)	544.0
Max. unit operating weight (lb)	767.0
Fan motor heat (MBh)	1.41
Dew Point (F)	51.18
Max Available ESP (in H2O)	1.120
Run Acoustics	Yes
Ducted Discharge - 63 Hz (dB)	92
Ducted Discharge - 125 Hz (dB)	78
Ducted Discharge - 250 Hz (dB)	74
Ducted Discharge - 500 Hz (dB)	69
Ducted Discharge - 1 kHz (dB)	66
Ducted Discharge - 2 kHz (dB)	63
Ducted Discharge - 4 kHz (dB)	60

Tags	AC-3
Ducted Discharge - 8 kHz (dB)	52
Ducted Inlet - 63 Hz (dB)	89
Ducted Inlet - 125 Hz (dB)	74
Ducted Inlet - 250 Hz (dB)	63
Ducted Inlet - 500 Hz (dB)	56
Ducted Inlet - 1 kHz (dB)	54
Ducted Inlet - 2 kHz (dB)	53
Ducted Inlet - 4 kHz (dB)	50
Ducted Inlet - 8 kHz (dB)	44
Outdoor Noise - 63 Hz (dB)	79
Outdoor Noise - 125 Hz (dB)	85
Outdoor Noise - 250 Hz (dB)	79
Outdoor Noise - 500 Hz (dB)	79
Outdoor Noise - 1 kHz (dB)	77
Outdoor Noise - 2 kHz (dB)	71
Outdoor Noise - 4 kHz (dB)	67
Outdoor Noise - 8 kHz (dB)	58
Rated capacity (AHRI) (MBh)	37.00
Refrig charge (HFC-410A) - ckt 1 (lb)	6.2
ASHRAE 90.1	Yes
Saturated Suction Temp Circuit 1 (F)	47.19
Saturated Discharge Temp Circuit 1 (F)	114.88
SEER/IEER @ AHRI conditions	15.00
EER @ AHRI Conditions	12.70
EER2 @ AHRI Conditions	11.70
SEER2 @ AHRI Conditions	14.10
Rated Capacity (AHRI EER2/SEER2)	35.80
Total Static Pressure (in H2O)	1.070
Length (ft)	5.82
Width (ft)	3.69
Height (ft)	3.02
Indoor Fan Type	FC Centrifugal
Indoor Fan Drive Type	Direct
Outdoor Fan Type	Propeller
Outdoor Fan Drive Type	Direct
Outdoor Fan Quantity	1
Heating Type	Gas Heat
Heating Stages	1

Mechanical Specifications - Y4C
Item: B1 Qty: 1 Tag(s): AC-3

General
The units shall be convertible airflow. The operating range shall be between 115°F and 0°F in cooling as standard from the factory for units with microprocessor controls. Operating range for units with electromechanical controls shall be between 115°F and 40°F. Cooling performance shall be rated in accordance with ARI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-410A, and 100 percent run tested to check cooling operation, fan and blower rotation, and control sequence before leaving the factory. Wiring internal to the unit shall be colored and numbered for simplified identification. Units shall be cULus listed and labeled, classified in accordance for Central Cooling Air Conditioners.

Casing
Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 672 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit. Service panels shall have lifting handles and be removed and reinstalled by removing two fasteners while providing a water and air tight seal. All exposed vertical panels and top covers in the indoor air section shall be insulated with a cleanable foil-faced, fire-retardant permanent, odorless glass fiber material. The base of the unit shall be insulated with 1/8", foil-faced, closed-cell insulation. All insulation edges shall be either captured or sealed. The unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1 1/8" high downflow supply/return openings to provide an added water integrity precaution, if the condensate drain backs up. The base of the unit shall have provisions for forklift and crane lifting, with forklift capabilities on three sides of the unit.

Unit Top
The top cover shall be one piece construction or, where seams exist, it shall be double-hemmed and gasket-sealed. The ribbed top adds extra strength and enhances water removal from unit top.

Two-Inch Pleated Filters
2" pleated media filters shall be available on all models.

Compressors
All units shall have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of unit nameplate voltage. Internal overloads shall be provided with the scroll compressors.

Dual compressors are outstanding for humidity control, light load cooling conditions and system back-up applications. Dual compressors are available on 7½-10 ton models and allow for efficient cooling utilizing 3-stages of compressor operation for all high efficiency models.

Indoor Fan
The following units shall be equipped with a direct drive plenum fan design (T/YSC120F,T/YHC074F, T/YHC092F,T/YHC102F, 120F). Plenum fan design shall include a backward-curved fan wheel along with an external rotor direct drive variable speed indoor motor. All plenum fan designs will have a variable speed adjustment potentiometer located in the control box.

3 to 5 ton units (high efficiency 3-phase with optional motor) are belt driven, FC centrifugal fans with adjustable motor sheaves. 3 to 5 ton units (standard and high efficiency 3-phase) have multispeed, direct drive motors. All 6 to 8½ ton units (standard efficiency) shall have belt drive motors with an adjustable idler-arm assembly for quick-adjustment to fan belts and motor sheaves. All motors shall be thermally protected. All 10 tons, 6 ton (074), 7½ to 8½ (high efficiency) units have variable speed direct drive motors. All indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

Outdoor Fans
The outdoor fan shall be direct-drive, statically and dynamically balanced, draw-through in the vertical discharge position. The fan motor shall be permanently lubricated and shall have built-in thermal overload protection.

Evaporator and Condenser Coils
Internally finned, 5/16" copper tubes mechanically bonded to a configured aluminum plate fin shall be standard. Evaporator coils are standard for all 3 to 10 ton standard efficiency models. Microchannel condenser coils are standard for all 3 to 10 ton standard efficiency models and 4, 5, 6, 7.5, 8.5 ton high efficiency models. The microchannel type condenser coil is not offered on the 4 and 5 ton dehumidification model. Due to flat streamlined tubes with small ports, and metallurgical tube-to-fin bond, microchannel coil has better heat transfer performance. Microchannel condenser coil can reduce system refrigerant charge by up to 50% because of smaller internal volume, which leads to better compressor reliability. Compact all-aluminum microchannel coils also help to reduce the unit weight. These all aluminum coils are recyclable. Galvanic corrosion is also minimized due to all aluminum construction. Strong aluminum brazed structure provides better fin protection. In addition, flat streamlined tubes also make microchannel coils more dust resistant and easier to clean. Coils shall be leak tested at the factory to ensure the pressure integrity. The evaporator coil and condenser coil shall be leak tested to 600 psig. The assembled unit shall be leak tested to 465 psig. The condenser coil shall have a patent pending 1+1+1 hybrid coil designed with slight gaps for ease of cleaning. A plastic, dual-sloped, removable and reversible condensate drain pan with through-the-base condensate drain is standard.

Condensate Overflow Switch
This option shall shut the unit down in the event that a clogged condensate drain line prevents proper condensate removal from the unit.

Tool-less Hail Guards
Tool-less, hail protection quality coil guards are available for condenser coil protection.

Controls
Unit shall be completely factory-wired with necessary controls and contactor pressure lugs or terminal block for power wiring. Unit shall provide an external location for mounting a fused disconnect device. A choice of microprocessor or electromechanical controls shall be available. Microprocessor controls provide for all 24V control functions. The resident control algorithms shall make all heating, cooling, and/or ventilating decisions in response to electronic signals from sensors measuring indoor and outdoor temperatures. The control algorithm maintains accurate temperature control, minimizes drift from set point, and provides better building comfort. A centralized microprocessor shall provide anti-short cycle timing and time delay between compressors to provide a higher level of machine protection. 24-volt electromechanical control circuit shall include control transformer and contactor

High Pressure Control
All units include High Pressure Cutout as standard.

Phase monitor
Phase monitor shall provide 100% protection for motors and compressors against problems caused by phase loss, phase imbalance, and phase reversal. Phase monitor is equipped with an LED that provides an ON or FAULT indicator. There are no field adjustments. The module will automatically reset from a fault condition.

Refrigerant Circuits
Each refrigerant circuit offer thermal expansion valve as standard. Service pressure ports, and refrigerant line filter driers are factory-installed as standard. An area shall be provided for replacement suction line driers.

Gas Heating Section
The heating section shall have a progressive tubular heat exchanger design using stainless steel burners and corrosion resistant steel throughout. An induced draft combustion blower shall be used to pull the combustion products through the firing tubes. The heater shall use a direct spark ignition (DSI) system. On initial call for heat, the combustion blower shall purge the heat exchanger for 20 seconds before ignition After three unsuccessful ignition attempts, the entire heating system shall be locked out until manually reset at the thermostat/zone sensor. Units shall be suitable for use with natural gas or propane (field-installed kit) and also comply with the California requirement for low NOx emissions (Gas/Electric Only).

Hinged Access Doors
Sheet metal hinges are available on the Filter/Evaporator, Supply Fan/Heat, and the Compressor/Control Access Doors.

Powered or Unpowered Convenience Outlet
This is a GFCI, 120v/15amp, 2 plug, convenience outlet, either powered or unpowered. When the convenience outlet is powered, a service receptacle disconnect will be available. The convenience outlet is powered from the line side of the disconnect or circuit breaker, and therefore will not be affected by the position of the disconnect or circuit breaker. This option can only be ordered when the Through the Base Electrical with either the Disconnect Switch or Circuit Breaker option is ordered.

Motorized Outside Air Dampers
Manually set outdoor air dampers shall provide up to 50 percent outside air. Once set, outdoor air dampers shall open to set position when indoor fan starts. The damper shall close to the full closed position when indoor fan shuts down.

Through the Base Electrical Access
An electrical service entrance shall be provided allowing electrical access for both control and main power connections inside the curb and through the base of the unit. Option will allow for field installation of liquid-tight conduit and an external field-installed disconnect switch.

Through the Base Electrical with Disconnect Switch
This 3-pole, molded case, disconnect switch with provisions for through the base electrical connections are available. The disconnect switch will be installed in the unit in a water tight enclosure with access through a swinging door. Wiring will be provided from the switch to the unit high voltage terminal block. The switch will be UL/CSA agency recognized.

Note: The disconnect switch will be sized per NEC and UL guidelines but will not be used in place of unit overcurrent protection.

ATTENTION
For installation in SCAQMD only: This furnace does not meet the SCAQMD Rule 1111 14 ng/J NOx emission limit, and thus is subject to a mitigation fee of up to $450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

Sequence of Operation (if applied in a SINGLE-ZONE CONSTANT-VOLUME SYSTEM or a CHANGEOVER BYPASS SYSTEM)

B. SINGLE-ZONE CONSTANT-VOLUME SYSTEM

1. OCCUPIED HEAT/COOL:
The RTU shall operate the supply fan continuously and modulate (or cycle) compressors, modulate (or stage) heat, and/or enable airside economizing to maintain zone temperature at setpoint. The OA damper shall open to bring in the required amount of ventilation.

2. MORNING WARM-UP/PRE-COOL:
The RTU shall operate the supply fan and modulate (or cycle) compressors or modulate (or stage) heat to raise/lower zone temperature to its occupied setpoint. The OA damper shall remain closed, unless economizing.

D. CHANGEOVER BYPASS SYSTEM

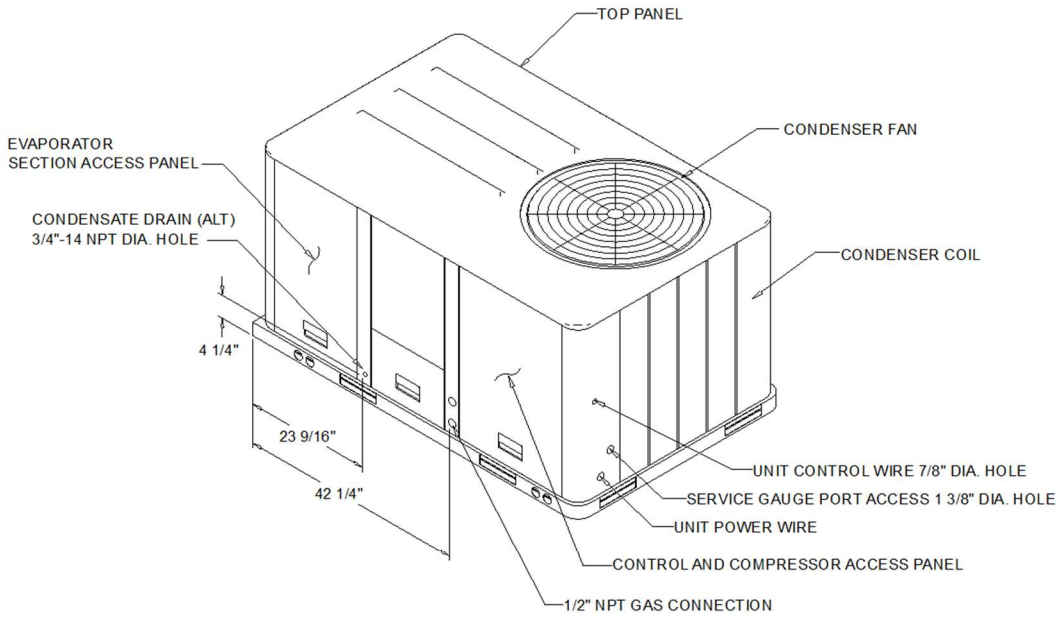
1. OCCUPIED HEAT/COOL:
Each VAV terminal shall use pressure-independent control, with airflow measurement, to vary primary airflow to maintain zone temperature at its occupied setpoint. The RTU shall modulate the bypass damper to maintain duct static pressure at setpoint and modulate (or cycle) compressors, modulate (or stage) heat, and/or enable airside economizing based on current zone cooling/heating demands. The OA damper shall open to bring in the required amount of ventilation.

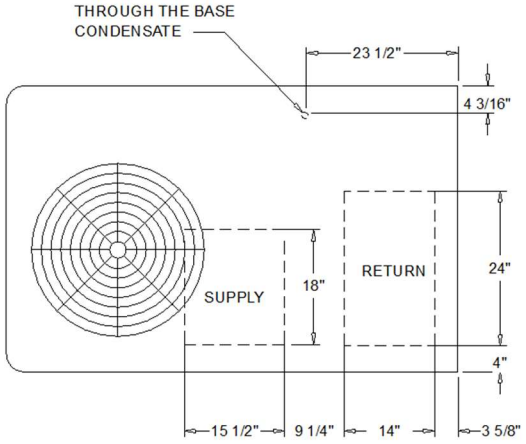
2. MORNING WARM-UP/PRE-COOL:
Each VAV terminal unit shall vary primary airflow to raise/lower zone temperature to its occupied setpoint. The RTU shall modulate the bypass damper to maintain duct static pressure at setpoint and modulate (or cycle) compressors or modulate (or stage) heat based on current zone cooling/heating demands. The OA damper shall remain closed, unless economizing.

3. COOLING/HEATING CHANGEOVER LOGIC:

The System Controller shall determine the overall system cooling/heating mode based on "voting" from each zone. When the majority of zones require cooling, the RTU shall operate in cooling mode and any zone that requires heating shall reduce primary airflow to minimum. When the majority of zones require heating, the RTU shall operate in heating mode and any zone that requires cooling shall reduce primary airflow to minimum.

Dimensional Drawings - Y4C
Item: B1 Qty: 1 Tag(s): AC-3

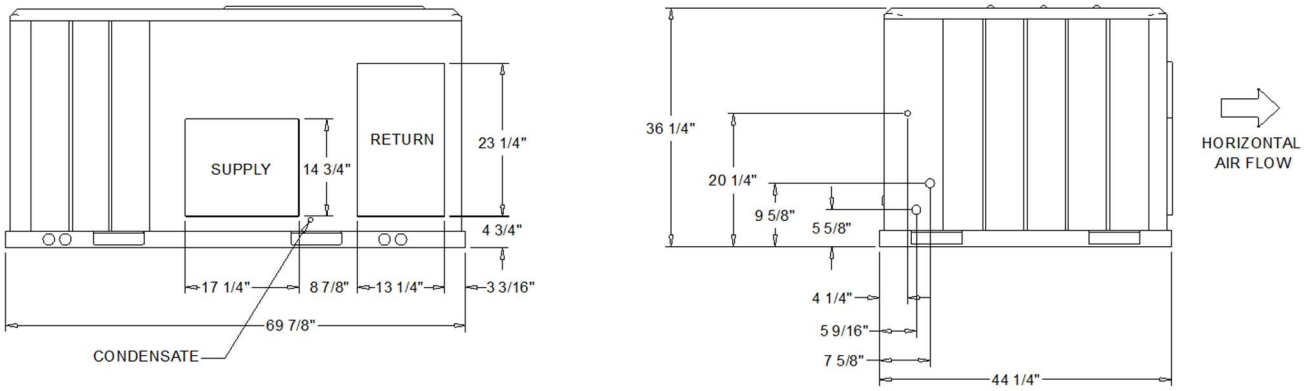




PLAN VIEW UNIT

DIMENSION DRAWING

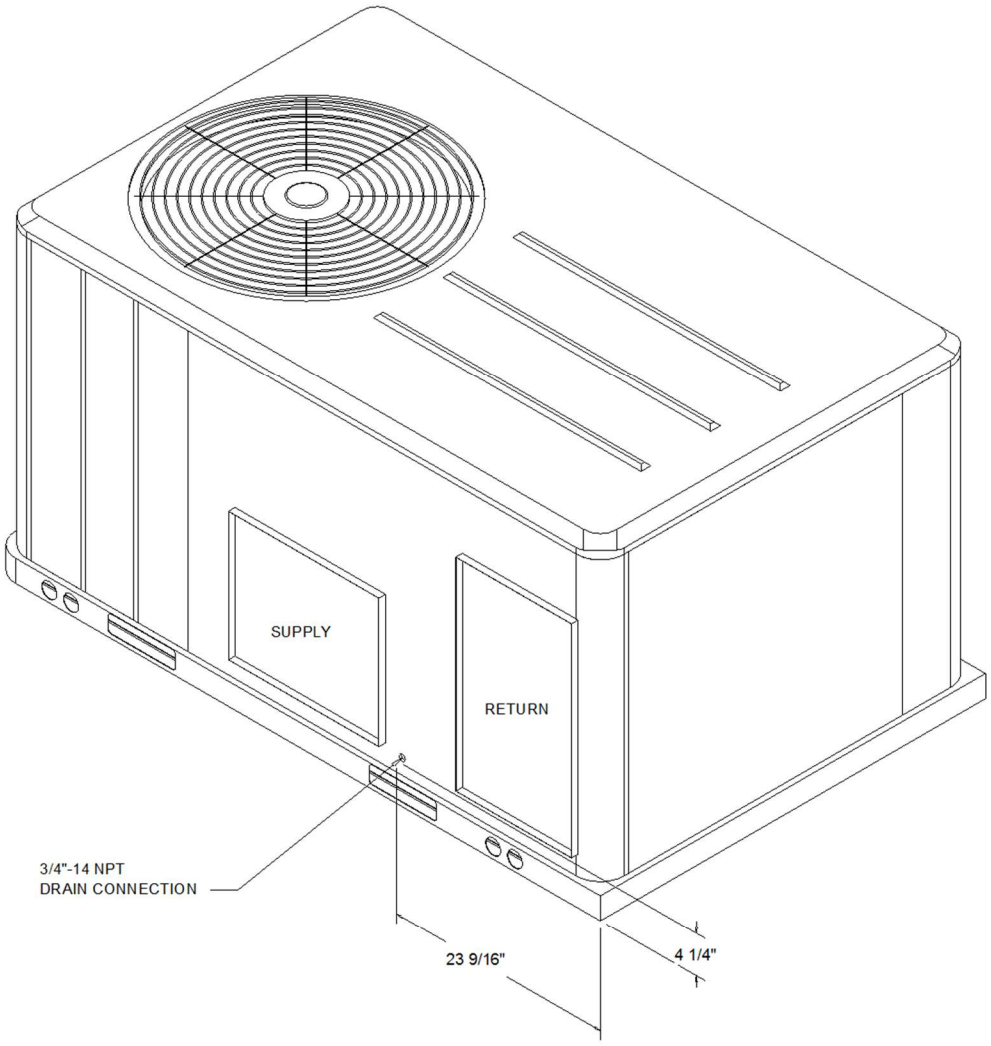
NOTES:
1. THRU -THE -BASE GAS AND ELECTRICAL IS NOT STANDARD ON ALL UNITS.
2. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION



PACKAGED GAS / ELECTRICAL

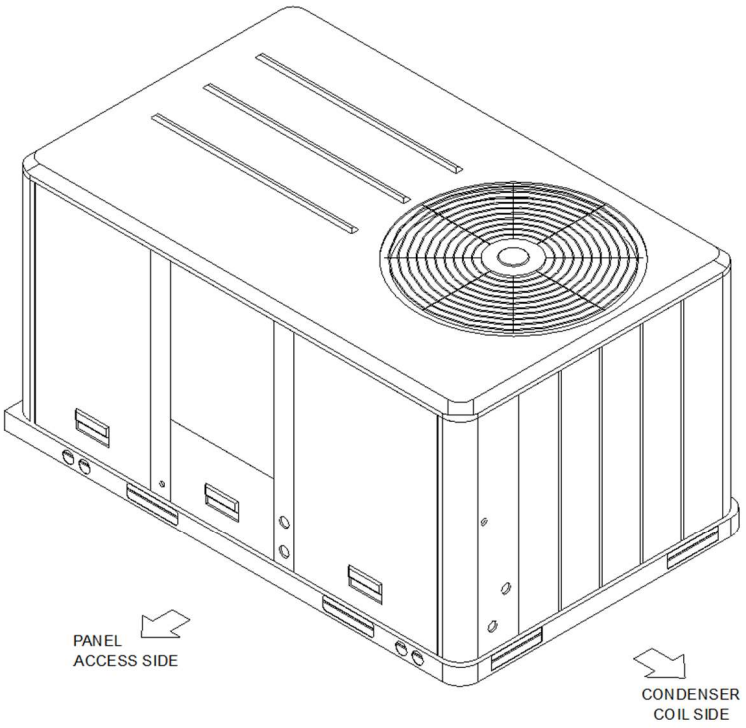
DIMENSION DRAWING

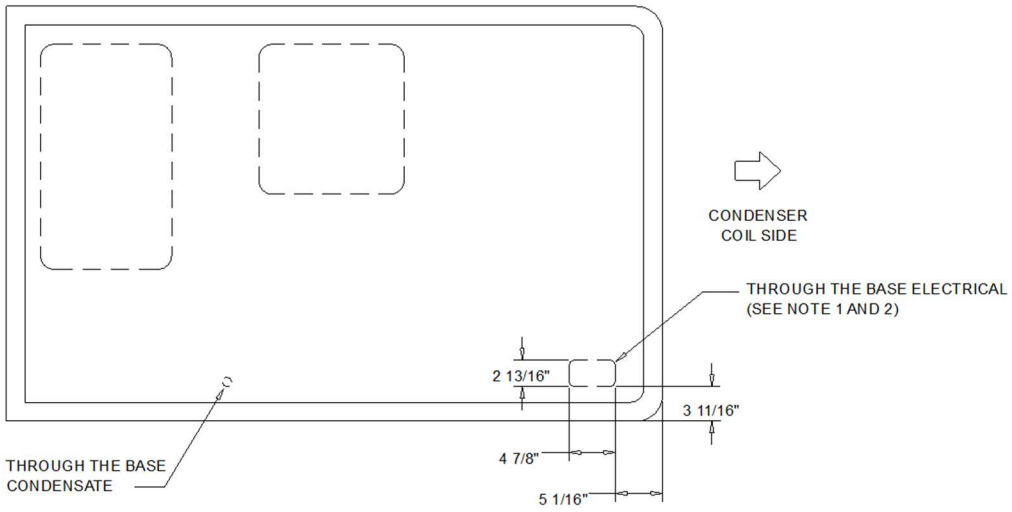
Dimensional Drawings - Y4C
Item: B1 Qty: 1 Tag(s): AC-3



ISOMETRIC-PACKAGED COOLING

Dimensional Drawings - Y4C
Item: B1 Qty: 1 Tag(s): AC-3





NOTES:
1. THRU -THE -BASE GAS AND ELECTRICAL IS NOT STANDARD. VERIFY OPTION IN PRODUCT DATA IN THIS DOCUMENT.
2. VERIFY WEIGHT, CONNECTION, OPTION CONFIGURATION AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION

THRU THE BASE ELECTRICAL

PLAN / ISO VIEW DRAWING

Dimensional Drawings - Y4C
Item: B1 Qty: 1 Tag(s): AC-3

ELECTRICAL / GENERAL DATA

GENERAL (2)(4)(6)

		Oversized Motor	
Model:	YHC036E	MCA:	N/A
Unit Operating Voltage:	187-253	MFS:	N/A
Unit Primary Voltage:	208	MCB:	N/A
Unit Secondary Voltage	230		
Unit Hertz:	60		
Unit Phase:	3		

Standard Motor		Field Installed Oversized Motor	
MCA:	21.0	MCA:	N/A
MFS:	30.0	MFS:	N/A
MCB:	30.0	MCB:	N/A

HEATING PERFORMANCE

HEATING - GENERAL DATA

Heating Model:	Low
Heating Input (BTU):	60000
Heating Output (BTU):	48000
No. Burners:	2
No. Stages	1

Gas Inlet Pressure

Natural Gas (Min/Max):	4.5/14.0
LP (Min/Max)	11"/14"
Gas Pipe Connection Size:	1/2"

INDOOR MOTOR

Standard Motor		Oversized Motor		Field Installed Oversized Motor	
Number:	1	Number:		Number:	N/A
Horsepower:	0.75	Horsepower:		Horsepower:	N/A
Motor Speed (RPM):	--	Motor Speed (RPM):		Motor Speed (RPM):	N/A
Phase	1	Phase		Phase	N/A
Full Load Amps:	6.0	Full Load Amps:		Full Load Amps:	N/A
Locked Rotor Amps:	--	Locked Rotor Amps:		Locked Rotor Amps:	N/A

COMPRESSOR Circuit 1/2

Number:	1
Horsepower:	2.7
Phase:	3
Rated Load Amps:	10.4
Locked Rotor Amps:	73.0

OUTDOOR MOTOR

Number:	1
Horsepower:	0.20
Motor Speed (RPM):	1075
Phase:	1
Full Load Amps:	1.5
	-

POWER EXHAUST ACCESSORY (3,7)

(Field Installed Power Exhaust)

Phase:	N/A
Horsepower:	N/A
Motor Speed (RPM):	N/A
Full Load Amps:	N/A
Locked Rotor Amps:	N/A

FILTERS

Type:	Throwaway
Furnished:	Yes
Number	2
Recommended	20"x30"x2"

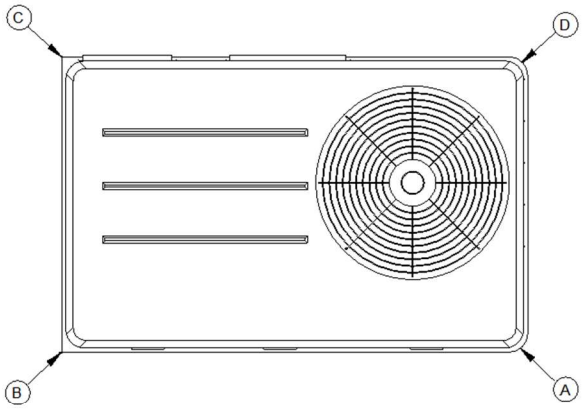
REFRIGERANT (2)

Type	R-410
Factory Charge	
Circuit #1	6.2 lb
Circuit #2	N/A

NOTES:

1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.
2. Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
3. Value does not include Power Exhaust Accessory.
4. Value includes oversized motor.
5. Value does not include Power Exhaust Accessory.
6. EER is rated at AHRI conditions and in accordance with DOE test procedures.
7. Installation of this power exhaust kit will affect unit level MCA and could affect MOP sizing having a direct impact on existing field wiring and unit protection devices. The change in MCA/MOP is the sole responsibility of the field installing party. Trane will not issue new nameplates as a result of this power exhaust accessory installation. FLA of the power exhaust kit option must be added to the MCA of the unit for building supply conductor sizing determination.

Weight, Clearance & Rigging - Y4C
Item: B1 Qty: 1 Tag(s): AC-3



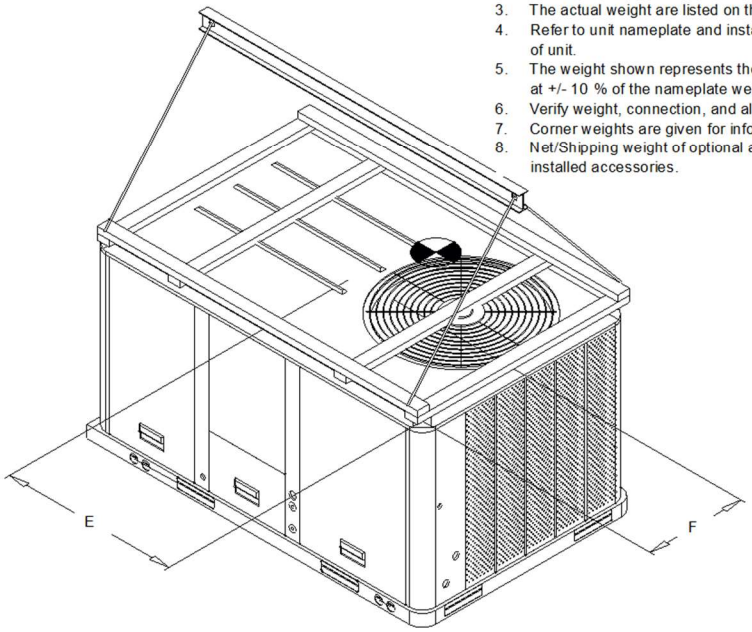
PACKAGED GAS / ELECTRICAL
CORNER WEIGHT

INSTALLED ACCESSORIES NET WEIGHT DATA

ACCESSORY	WEIGHTS
ECONOMIZER	
MOTORIZED OUTSIDE AIR DAMPER	20.0 lb
MANUAL OUTSIDE AIR DAMPER	
BAROMETRIC RELIEF	
OVERSIZED MOTOR	
BELT DRIVE MOTOR	
POWER EXHAUST	
THROUGHT THE BASE ELECTRICAL/GAS (FIOPS)	8.0 lb
UNIT MOUNTED CIRCUIT BREAKER (FIOPS)	
UNIT MOUNTED DISCONNECT (FIOPS)	5.0 lb
POWERED CONVENIENCE OUTLET (FIOPS)	38.0 lb
HINGED DOORS (FIOPS)	10.0 lb
HAIL GUARD	12.0 lb
SMOKE DETECTOR, SUPPLY / RETURN	
NOVAR CONTROL	
STAINLESS STEEL HEAT EXCHANGER	
REHEAT	
ROOF CURB	

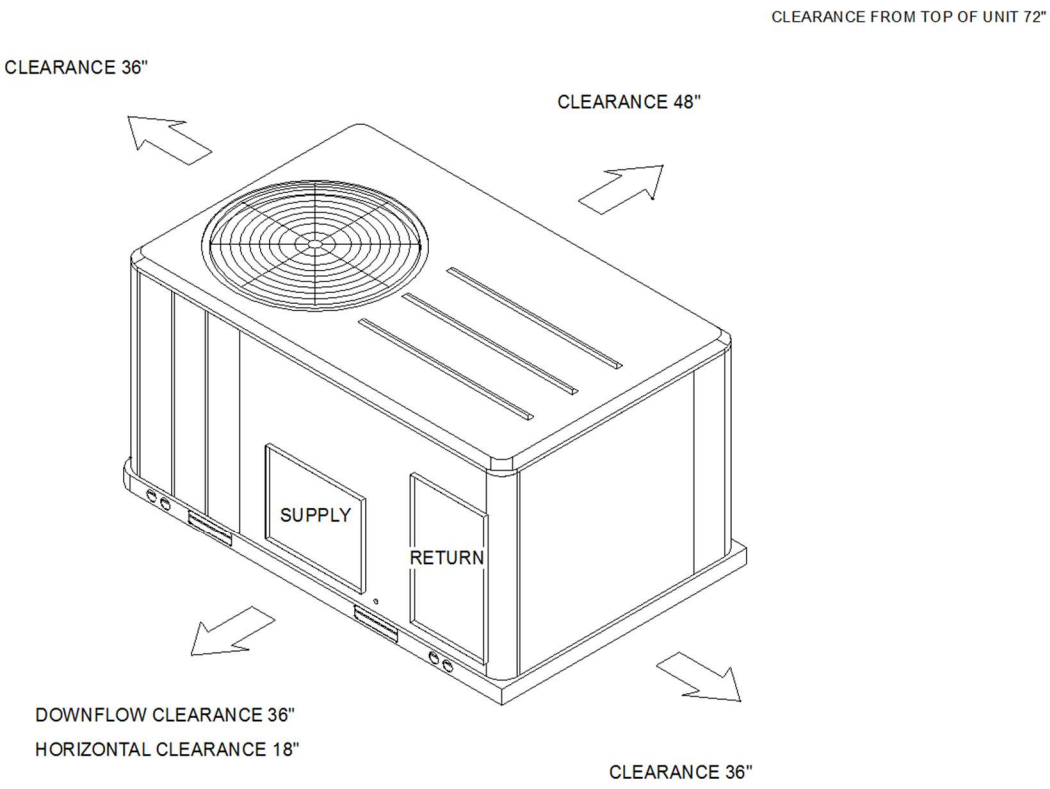
BASIC UNIT WEIGHTS		CORNER WEIGHTS				CENTER OF GRAVITIY	
SHIPPING	NET	A	165.0 lb	C	95.0 lb	(E) LENGHT	(F) WIDTH
607.0 lb	532.0 lb	B	137.0 lb	D	134.0 lb	31"	19"

NOTE:
1. All weights are approximate.
2. Weights for options that are not list refer to Installation guide.
3. The actual weight are listed on the unit nameplate.
4. Refer to unit nameplate and installation guide for weights before scheduling transportation and installation of unit.
5. The weight shown represents the typical unit operating weight for the configuration selected. Estimated at +/- 10 % of the nameplate weight. .
6. Verify weight, connection, and all dimension with installer documents before installation.
7. Corner weights are given for information only.
8. Net/Shipping weight of optional accessories should be added to unit weight when ordering factory or field installed accessories.



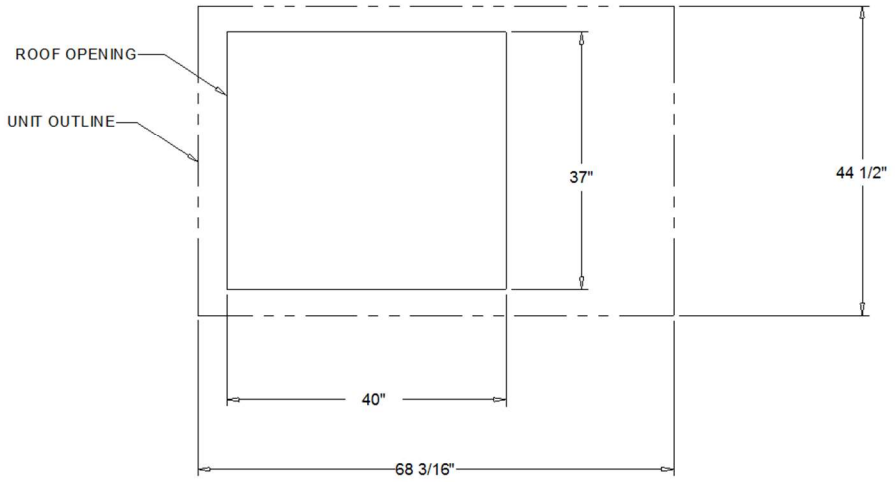
PACKAGED GAS / ELECTRICAL
RIGGING AND CENTER OF GRAVITY

Weight, Clearance & Rigging - Y4C
Item: B1 Qty: 1 Tag(s): AC-3



PACKAGED GAS / ELECTRIC

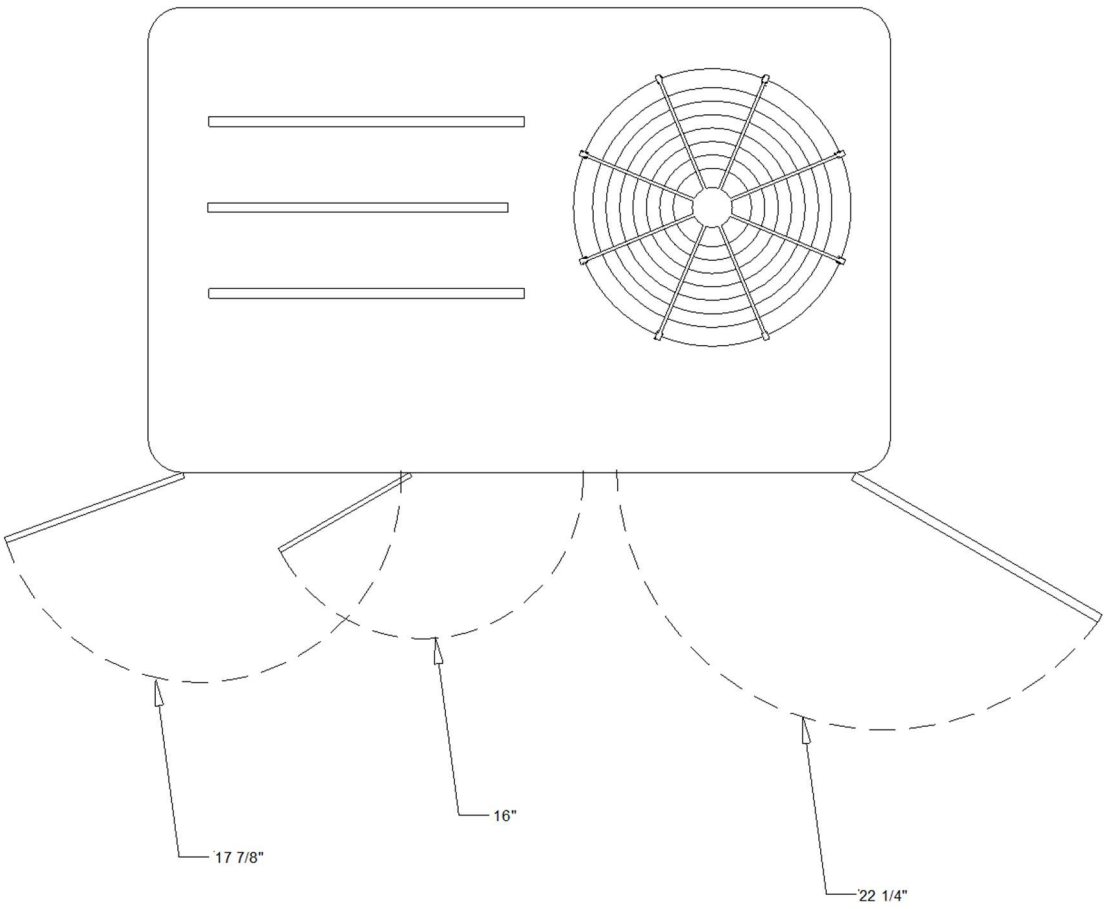
CLEARANCE



PACKAGED GAS / ELECTRIC

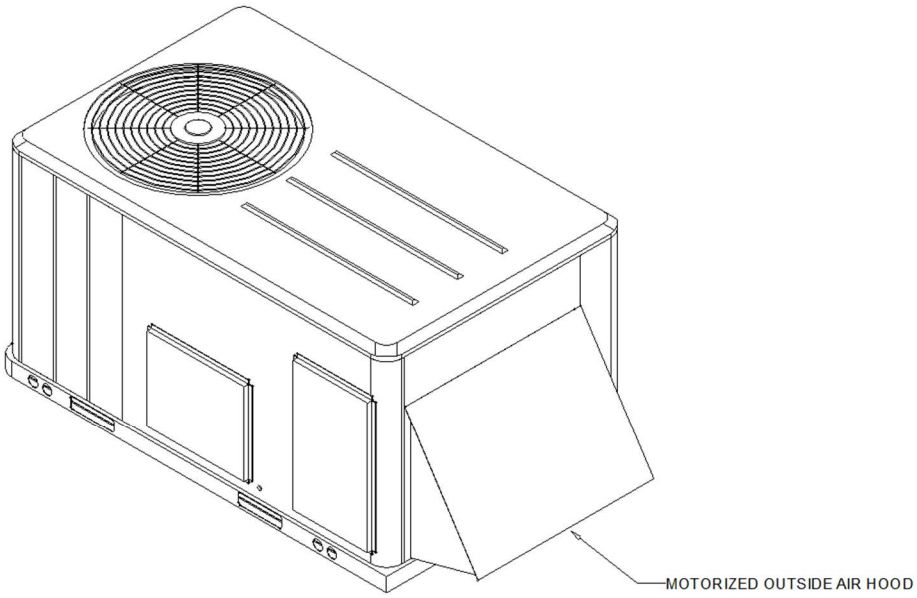
DOWNFLOW TYPICAL ROOF OPENING

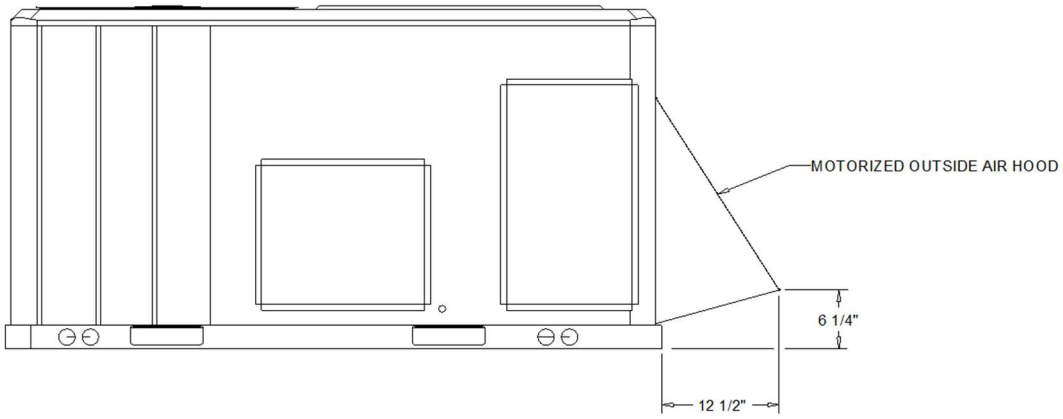
Accessory - Y4C
Item: B1 Qty: 1 Tag(s): AC-3



SWING DIAMETER - HINGED DOOR(S) OPTION
ACCESSORY

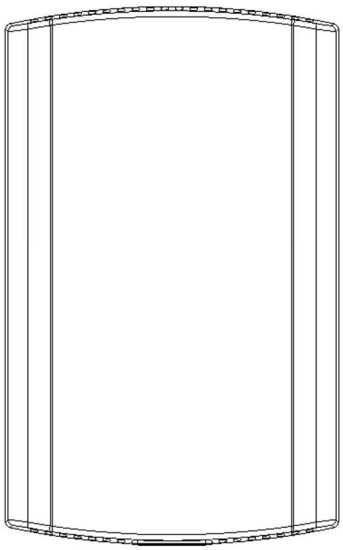
Accessory - Y4C
Item: B1 Qty: 1 Tag(s): AC-3

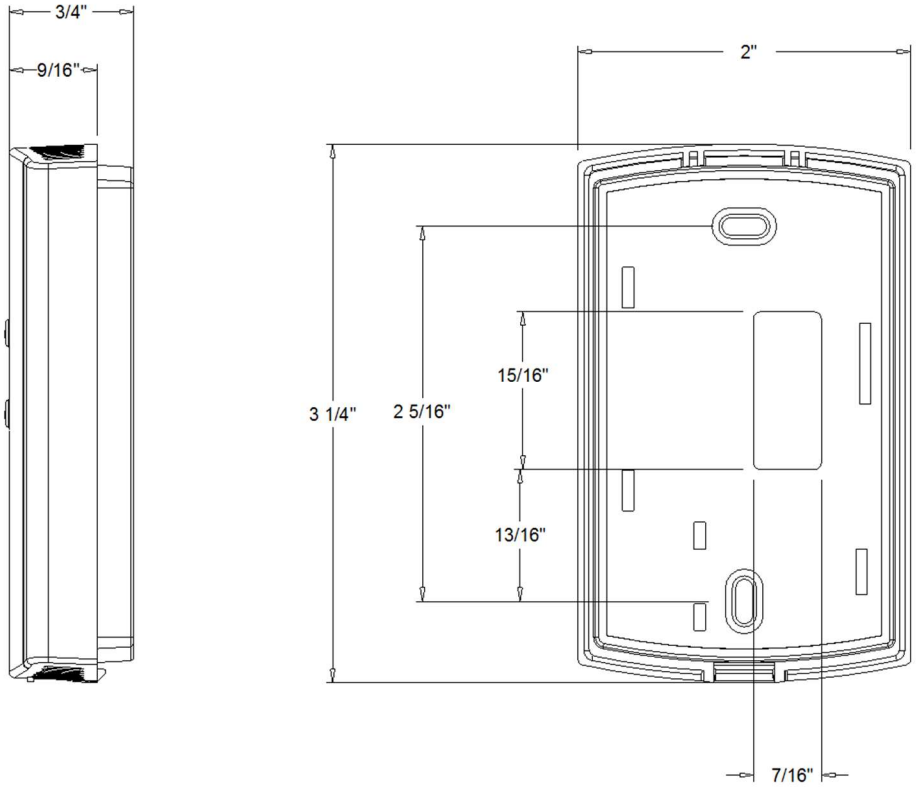




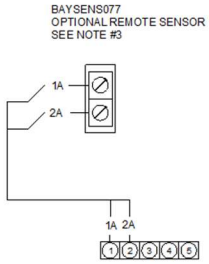
ACCESSORY - MOTORIZED OUTSIDE AIR HOOD

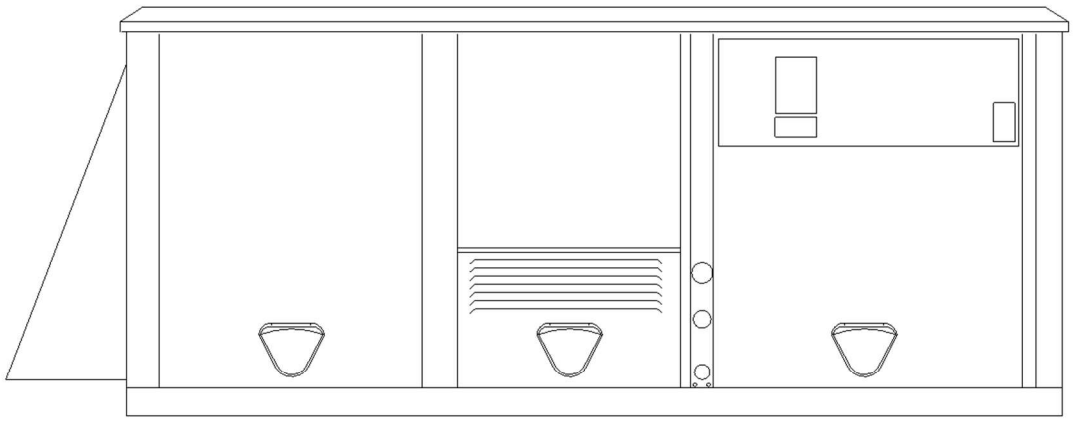
Accessory - Y4C
Item: B1 Qty: 1 Tag(s): AC-3





Field Wiring - Y4C
Item: B1 Qty: 1 Tag(s): AC-3





ZONE SENSOR WIRE TABLE

WIRE SIZE	MAXIMUM WIRE LENGTH
22 GAUGE	1800"
20 GAUGE	3000"
18 GAUGE	4500"
16 GAUGE	7200"
14 GAUGE	11700"

NOTE:

1. All wiring and devices shown dashed to be supplied and installed by the customer in accordance with national and local electrical codes.
2. Low voltage control wiring must not be run in conduit with power wiring.

Tag Data - 6- 25 Ton PKGD Precedent Unitary Rooftops (Qty: 1)

Item	Tag(s)	Qty	Description	Model Number
C1	AC-4	1	15 Ton PKGD Gas - HGRH	YSJ180A3S0H**F0C0A1B1A004000000000000000

Product Data - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4

DX Cooling / Gas Heat
Standard Efficiency
R-410A
15 Ton
208-230/60/3
Symbio 700
High Gas Heat
Economizer, Reference Enthalpy with Barometric Relief
Hinged Access Panels with 2-in MERV 8 Filter
Through the Base Electric
Non-Fused Disconnect Switch
Powered 15A Convenience Outlet
Advanced Controls and BACnet BAS
Modulating Hot Gas Reheat (HGRH)
CFS and FFS and COS
Humidity wall mounted sensor (Field Installed)
Remote Room Temperature Sensor (Field Installed)

The following items are excluded (pkg):

- If not specifically listed, extra filters, extra belts, extra sheaves, thermostat, external isolation, air balance, curb adapter, roof curb, hurricane ties downs and wind load calculations, condensate overflow switch and start up are not included. ***Labor warranty to be provided by the installing contractor if not purchased.***

Performance Data - 6- 25 Ton PKGD Precedent Unitary Rooftops (PREC)

Tags	AC-4
Cooling Entering Dry Bulb (F)	78.00
Cooling Entering Wet Bulb (F)	64.00
Summer Ambient (F)	95.00
Entering Dry Bulb (in HGRH) (F)	73.00
Entering Wet Bulb (in HGRH) (F)	64.00
Ambient (In HGRH) (F)	75.00
Heating Entering Air Temperature (F)	55.00
Design Airflow (cfm)	5000
Airflow Application	Downflow
Design ESP (in H2O)	1.000
Fan Pressurized (in H2O)	1.476
Total SP (in H2O)	1.224
Elevation (ft)	0.00
Gross Total Capacity (MBh)	174.33
Gross Sensible Capacity (MBh)	138.87
Gross Latent Capacity (MBh)	35.46
Net Total Capacity (MBh)	169.05
Net Sensible Capacity (MBh)	133.58
Net Sensible Heat Ratio (%)	79.00
Coil LAT DB (F)	52.15
Coil LAT WB (F)	51.95
Cooling Leaving Unit Dry Bulb (F)	53.75
Cooling Leaving Unit WB (F)	52.64
Fan Motor Heat (MBh)	0.89
Dew Point Temperature (F)	51.82
Refrigerant charge (HFC-410A) - Ckt 1 (lb)	15.8
Saturated Discharge Temperature (F)	120.40
Saturated Suction Temperature (F)	46.04
Heat Static Pressure Adj (in H2O)	0.000
Component SP Add (in H2O)	0.224
Max Available ESP (in H2O)	1.776
Supply Motor Horsepower (hp)	3.000
Supply Operating Horsepower (hp)	1.950
Supply RPM (rpm)	1145
Compressor Power (kW)	12.69
System Power (kW)	17.32
EER @ AHRI (Number)	10.80
IEER @ AHRI (Number)	14.00
MCA (A)	78.00
MOP (A)	100.00
Compressor 1 RLA (A)	30.90
Compressor 2 RLA (A)	16.40
Condenser Fan FLA (A)	2.30
Evaporator Fan FLA (A)	8.80
Heating Input Capacity (MBh)	400.00
Output Heating Capacity (MBh)	324.00
Heating Leaving Air Temperature (F)	113.68
Heating Temperature Rise (F)	58.68
Height (ft)	4.92
Width (ft)	7.25
Length (ft)	10.25
Approx Installed Weight (lb)	2210.0
Corner weight A (lb)	671.0
Corner Weight B (lb)	492.0

Tags	AC-4
Corner Weight C (lb)	365.0
Corner Weight D (lb)	483.0
Center of Gravity - Length (ft)	4.33
Center of Gravity - Width (ft)	3.00
Leaving dry bulb w HGRH (F)	78.78
Temperature Rise (HGRH) (F)	25.83
HGRH Capacity (MBh)	140.95
Dew Point Temperature (HGRH) (F)	51.28
Reheat Coil LAT DB (HGRH) (F)	77.73
Reheat Coil LAT WB (HGRH) (F)	61.62
Moisture Removal Rate (HGRH) (gph)	7.17
Evap Coil LAT DB (HGRH) (F)	51.90
Evap Coil LAT WB (HGRH) (F)	51.54
Supply Fan Count (Number)	2.00

Mechanical Specifications - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4

General
- Packaged rooftop units cooling, heating capacities, and efficiencies are AHRI Certified within scope of AHRI Standard 210-240 for 6 to 25 Tons and ANSIZ21.47 and 10 CFR Part 431 pertaining to Commercial Warm Air Furnaces (all gas heating units).
-Convertible airflow.
-Symbio controls operating range is from 0-125.0 F from factory; if designing for cooling mode operation below 40.0 F ambient temp, add low ambient kit to assure continuous and reliable operation.
-Factory assembled, internally wired, fully charged with R-410A, and 100 percent run tested to check cooling operation, fan and blower rotation, and control sequence before leaving the factory.
-Colored and numbered wiring internal to the unit for simplified identification.
-Units cULus listed and labeled, classified in accordance for Central Cooling Air Conditioners.

Casing
-Zinc coated, heavy gauge, galvanized steel.
-Weather resistant pre-painted metal with galvanized substrate.
-Meets ASTM B117, 672 hour salt spray test.
-Removable single side maintenance access panels.
-Lifting handles in maintenance access panels (can be removed and reinstalled by removing fasteners while providing a water and air tight seal).
-Exposed vertical panels and top covers in the indoor air section insulated with a cleanable foil-faced, fire-retardant permanent, odorless glass fiber material.
-Base pan shall have no penetrations within the perimeter of the curb other than the raised 1 inch high downflow supply/return openings to provide an added water integrity precaution, if the condensate drain backs up.
-Base of the unit insulated with 1/8 inch, foil-faced, closed-cell insulation.
-Unit base provisions for forklift and/or crane lifting on three sides of unit.

Hail Guards
-Provides condenser coil protection.

Powered or Unpowered Convenience Outlet
-Powered GFCI, 120V/15A, 2 plug, convenience outlet or unpowered GFCI, 120V/20A, 2 plug, convenience outlet.
-When convenience outlet is powered, a service receptacle disconnect will be available.
-Convenience outlet is powered from the line side of the disconnect or circuit breaker, and therefore will not be affected by the position of the disconnect or circuit breaker.
-Available to order when through-the-base electrical with disconnect switch or circuit breaker option is ordered.

Microchannel Coils
-Optimal heat transfer performance due to flat, streamlined tubes with small ports, and metallurgical tube-to-fin bond.
-Reduce system refrigerant charge by up to 50% leading to better compressor reliability.
-Compact all-aluminum microchannel coils reduce the unit weight.
-Recyclable all aluminum coils All aluminium construction minimizes galvanic corrosion.
-Strong aluminum brazed structure provides better fin protection.
-Flat streamlined tubes more dust resistant and easy to clean.
-Coils leak tested at the factory to ensure the pressure integrity.

Compressors
-All units have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps.
-Suction gas-cooled motor with voltage utilization range of plus or minus 10 percent of unit nameplate voltage.
-Internal overloads standard with scroll compressors.
-All units have dual compressors.
-Three stages of cooling available on 6 to 17.5 tons units and four stages of cooling available on 20 and 25 tons units.

Filters
Two inch pleated media filters shall be available on all models.

Frostat
-Utilized as a safety device.
-Opens to prevent freezing temperatures on evaporator coil.
-Temperature will need to rise to 50°F before closing.
-Utilized in low airflow or high outside air applications (cooling only).

Gas Heating Section
-The heating section shall have a progressive tubular heat exchanger with corrosion-resistant aluminized steel tubes and burners as standard on all models.
-Stainless steel heat exchanger with 409 stainless steel tubes and 439 stainless steel burners shall be optional.
-Induced draft combustion blower shall be used to pull the combustion products through the firing tubes.
-Heater shall use a direct spark ignition (DSI) system.
-On initial call for heat, the combustion blower shall purge the heat exchanger for 20 seconds before ignition.
-After three unsuccessful ignition attempts, entire heating system shall be locked out until manually reset at the thermostat/zone sensor.
-Units shall be suitable for use with natural gas or propane (field-installed kit).

Heat Exchanger
-Compact cabinet features a tubular heat exchanger in low, medium and high heat capacities.
-Corrosion-resistant aluminized steel tubes and burners are standard on all models.
-Induced draft blower to pull the gas mixture through the burner tubes.
-Direct spark ignition and a flame sensor as a safety device to validate the flame.

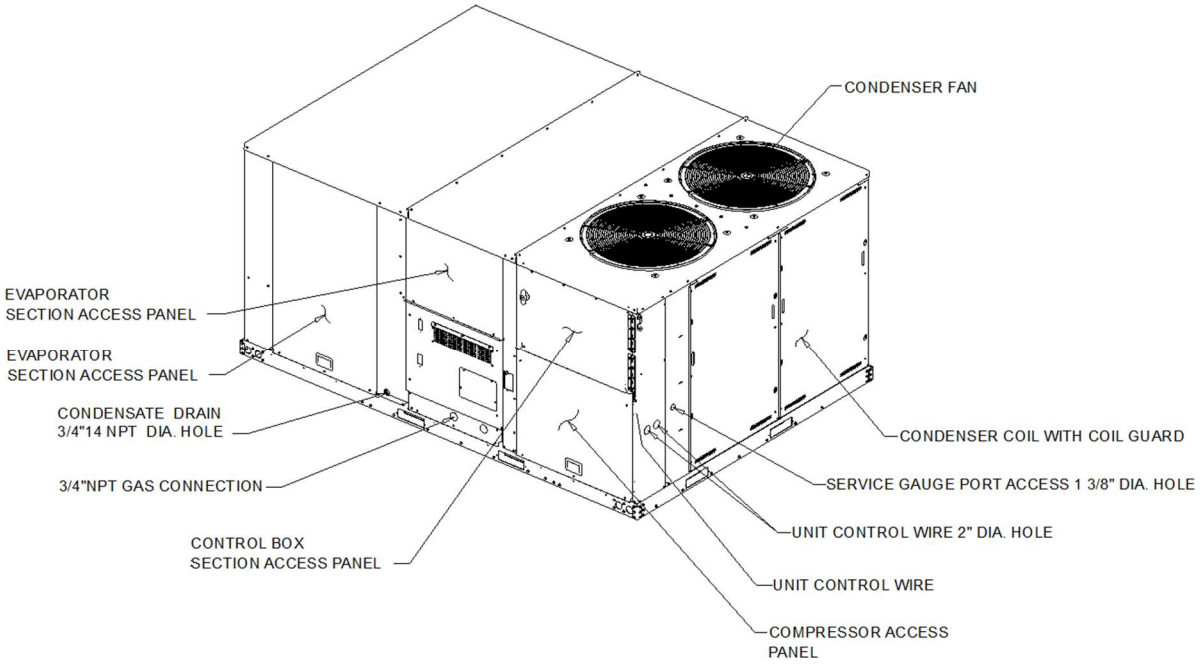
Indoor Fan
- Direct drive plenum fan design - 6 to 25 tons units.
- Plenum fan design - backward-curved fan wheel along with an external rotor direct drive variable speed indoor motor.
- Supply fan speed adjustments can be made using the Symbio 700 or Mobile App.
- Motors are thermally protected.
- Variable speed direct drive motors are high efficiency - 6 to 25 tons.

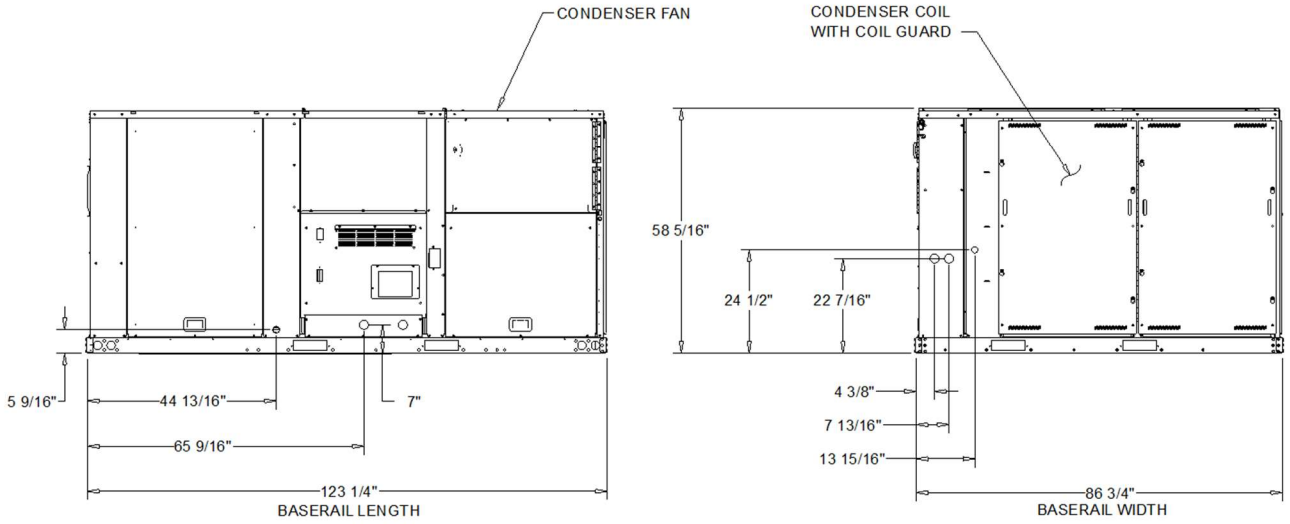
Through-the-Base Electrical with Disconnect Switch
-3-pole, molded case, disconnect switch with provisions for through-the-base electrical connections.
-Disconnect switch installed within unit in a water tight enclosure.
-Wiring provided from the switch to the unit high voltage terminal block.
-Switch cULus agency recognized.
Note: Disconnect switch sized per NEC and cULus guidelines but will not be used in place of unit overcurrent protection.

Economizer (Standard)
-Available with or without barometric relief.
-Fully modulating 0-100 percent motor and dampers, minimum position setting, preset linkage, wiring harness with plug, spring return actuator and fixed dry bulb control.
-Barometric relief shall provide a pressure operated damper that shall be gravity closing.
-Barometric relief shall prohibit entrance of outside air during the equipment ?off? cycle.
-Optional solid state or differential enthalpy control.
-Arrives in shipping position and shall be moved to the operating position by the installing contractor.

Dimensional Drawings - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4

NOTES:
1. THRU -THE -BASE ELECTRICAL IS NOT STANDARD ON ALL UNITS.
2. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION

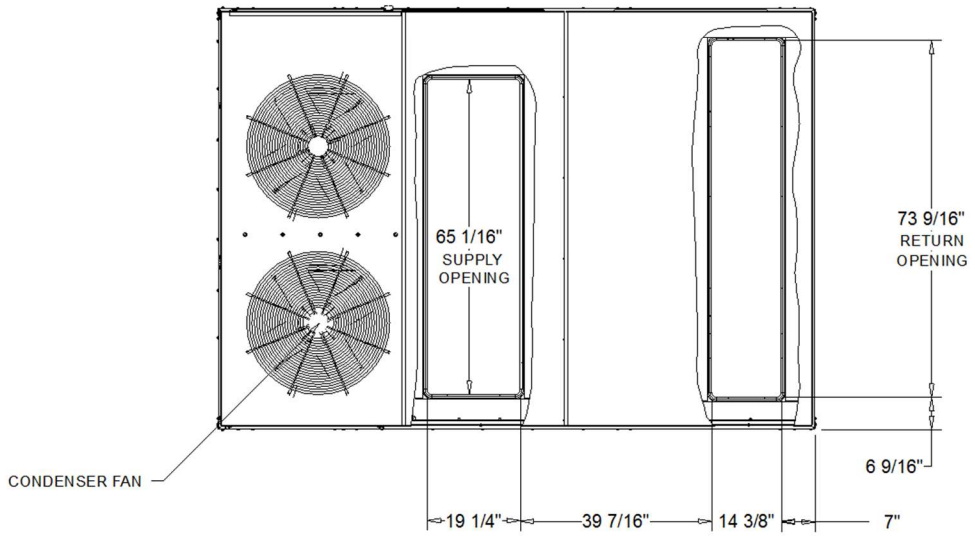




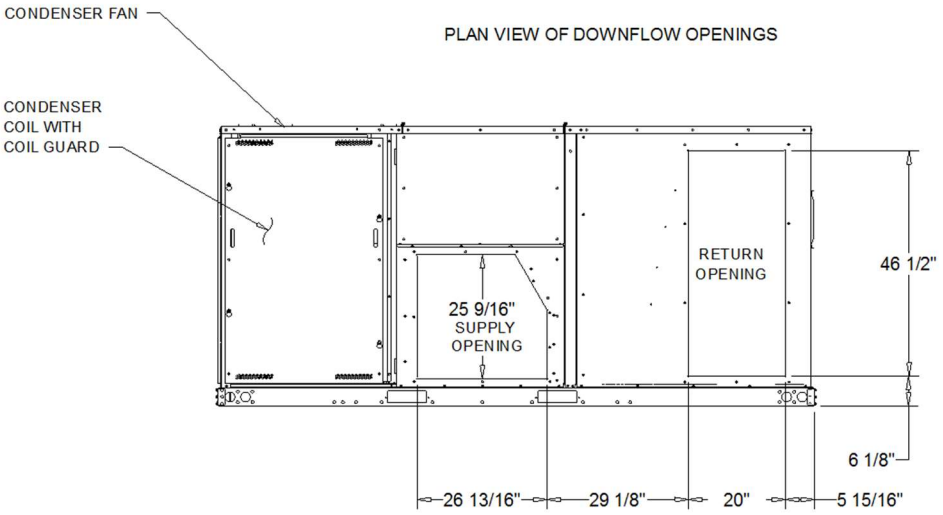
DX COOLING / GAS HEAT STANDARD EFFICIENCY

DIMENSION DRAWING

Dimensional Drawings - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4



PLAN VIEW OF DOWNFLOW OPENINGS

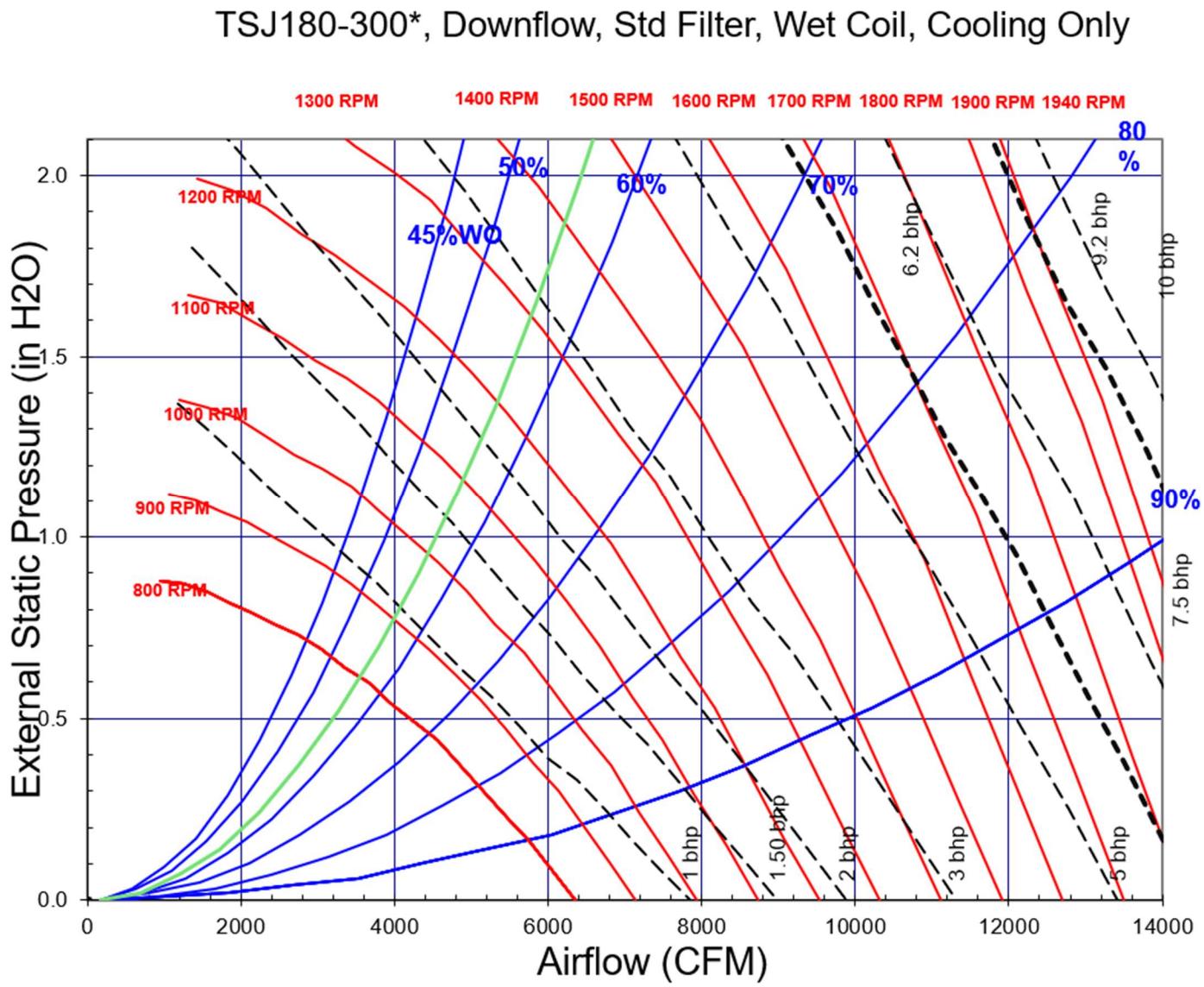


HORIZONTAL AIR FLOW OPENING

DX COOLING / GAS HEAT STANDARD EFFICIENCY

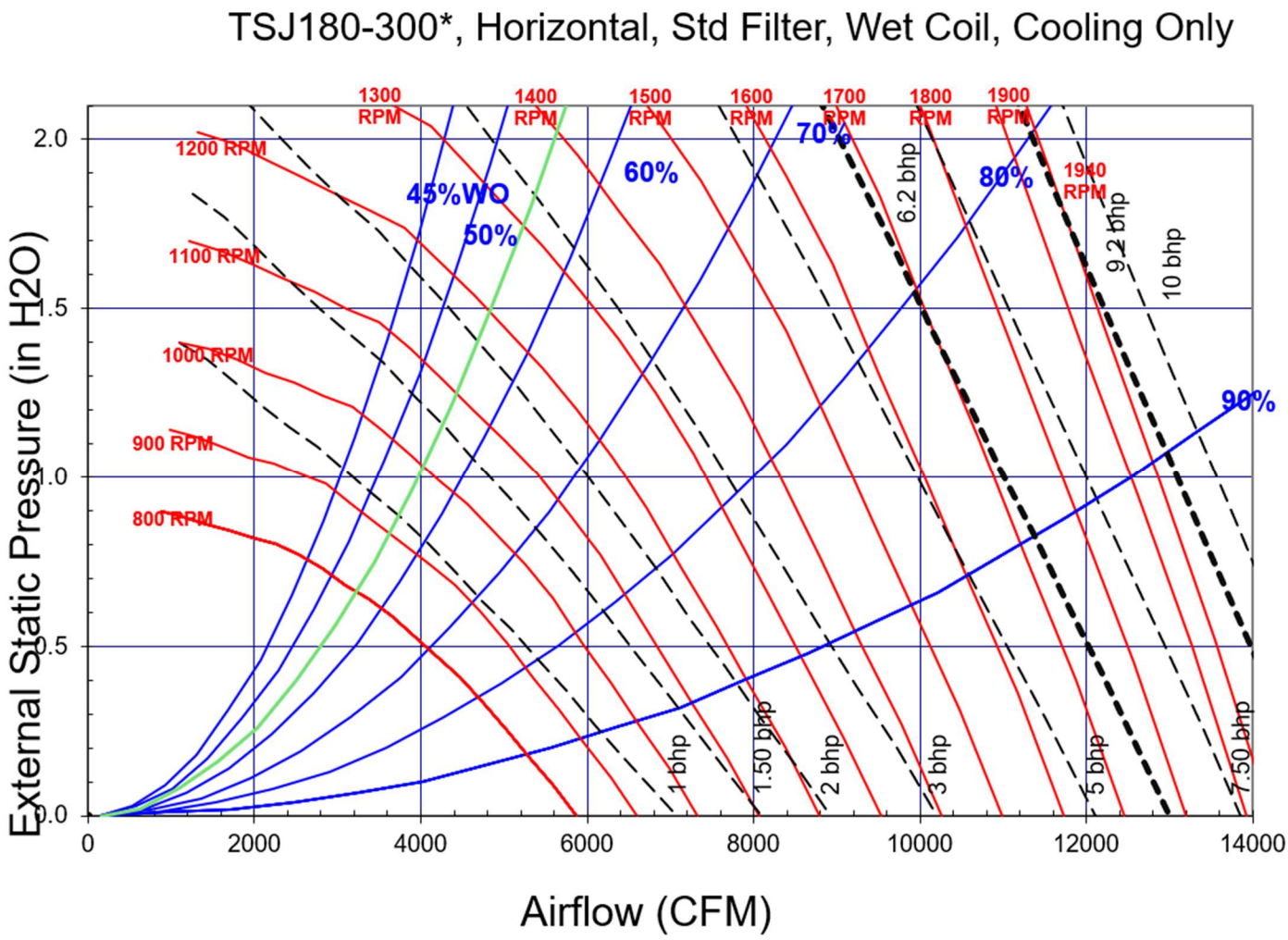
DIMENSION DRAWING

Dimensional Drawings - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4



Note: Fan Curves are for TSJ/WSJ units. For YSJ units, add additional static pressure for Gas Heat Exchanger (ref. RT-PRC098*, table 47)

Dimensional Drawings - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4



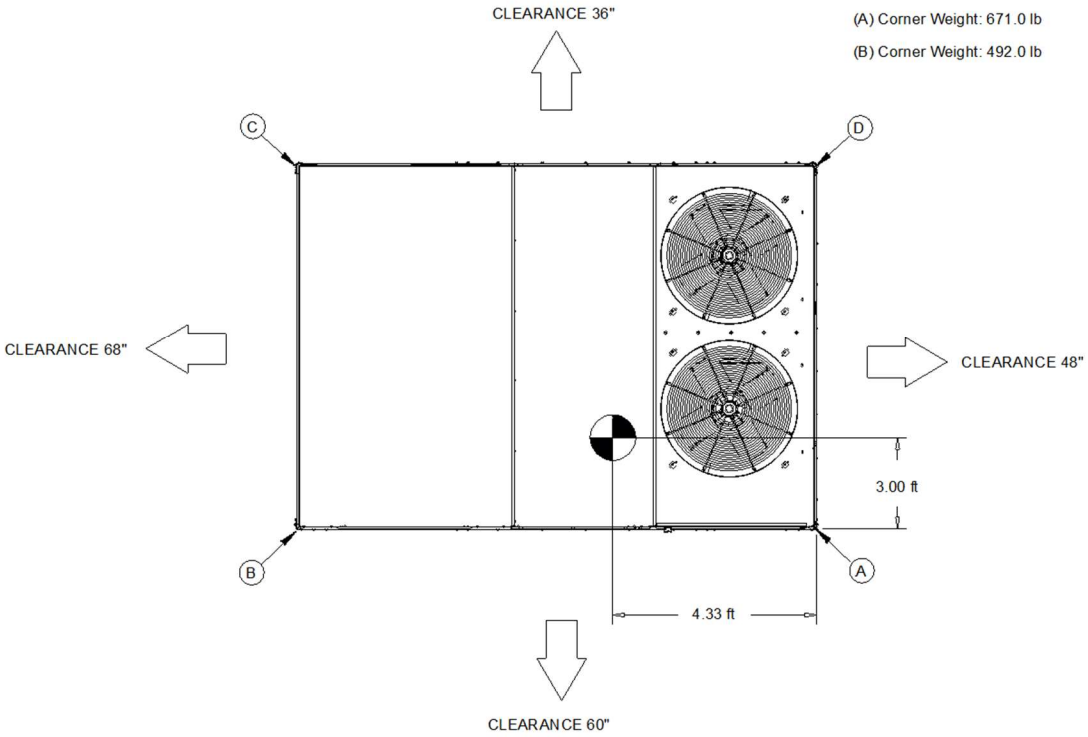
Note: Fan Curves are for TSJ/WSJ units. For YSJ units, add additional static pressure for Gas Heat Exchanger (ref. RT-PRC098*, table 47)

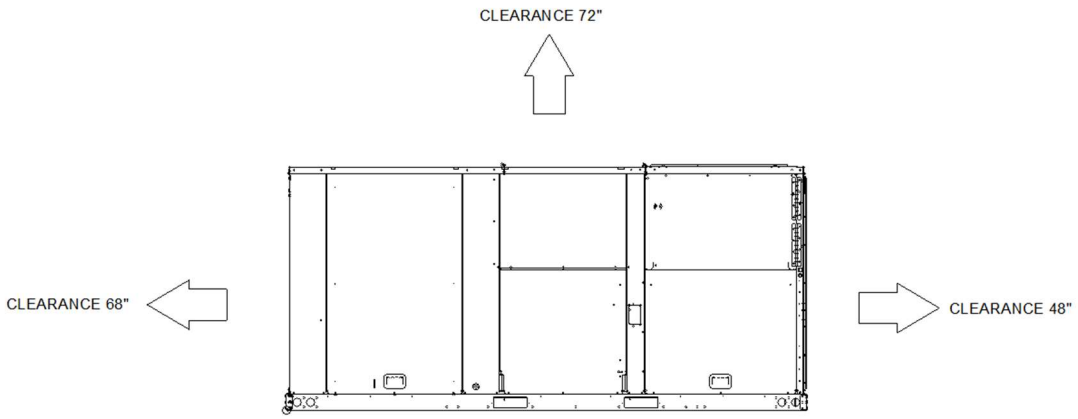
Weight, Clearance & Rigging - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4

NOTES:
1. APPROX. INSTALLED WEIGHT INCLUDES ALL SELECTED OPTIONS AND ACCESSORIES.
2. CORNER WEIGHTS ARE FOR BASE UNIT ONLY AND DO NOT INCLUDE OPTIONS OR ACCESSORIES.
3. WEIGHT INCLUDES BOTH FACTORY AND FIELD INSTALLED ACCESSORY.

Approximate Installed Weight: 2,210.0 lb

(A) Corner Weight: 671.0 lb	(C) Corner Weight: 365.0 lb
(B) Corner Weight: 492.0 lb	(D) Corner Weight: 483.0 lb

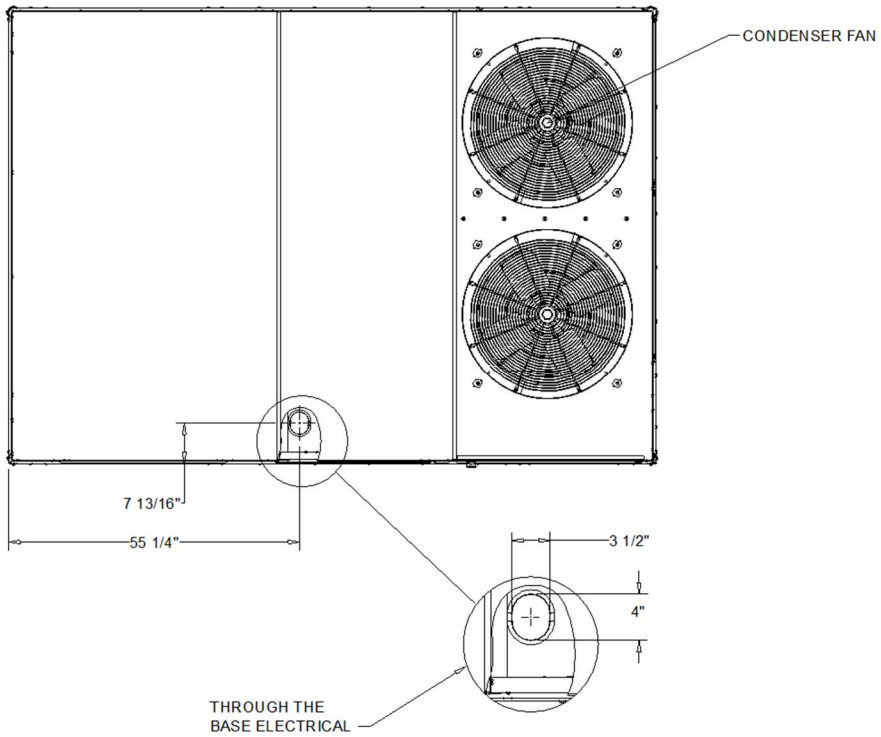


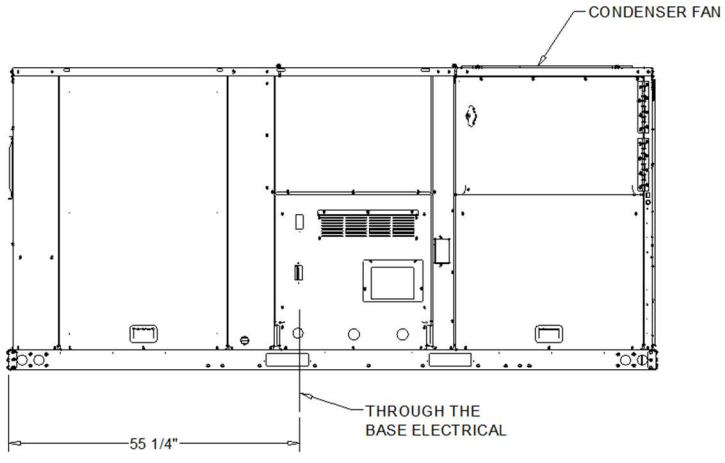


DX COOLING / GAS HEAT STANDARD EFFICIENCY

WEIGHTS AND CLEARANCES

Accessory - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4

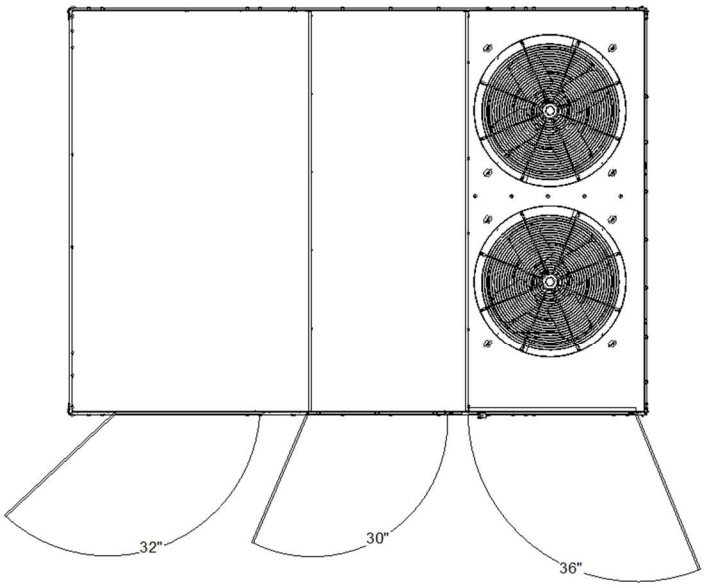


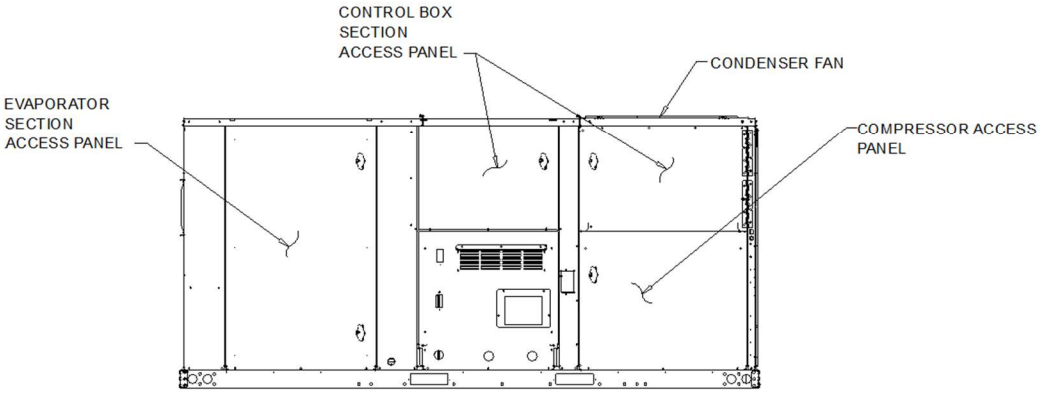


THROUGH-THE-BASE ELECTRICAL (OPTION)

DX COOLING / GAS HEAT STANDARD EFFICIENCY

Accessory - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4

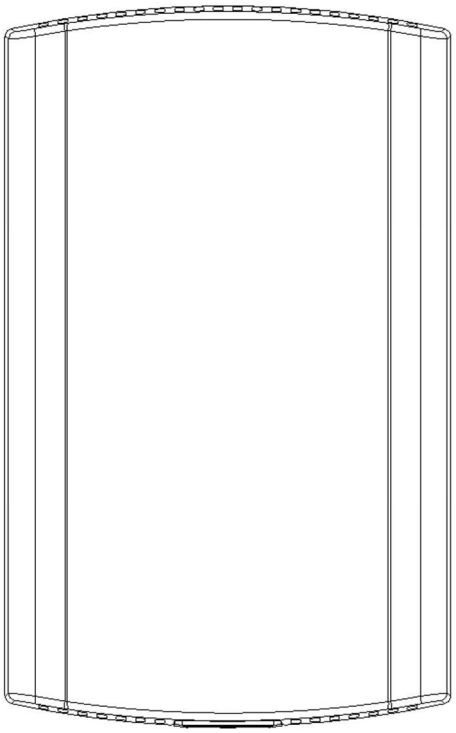




SWING DIAMETER FOR HINGED DOOR(S) (OPTION)

DX COOLING / GAS HEAT STANDARD EFFICIENCY

Accessory - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4



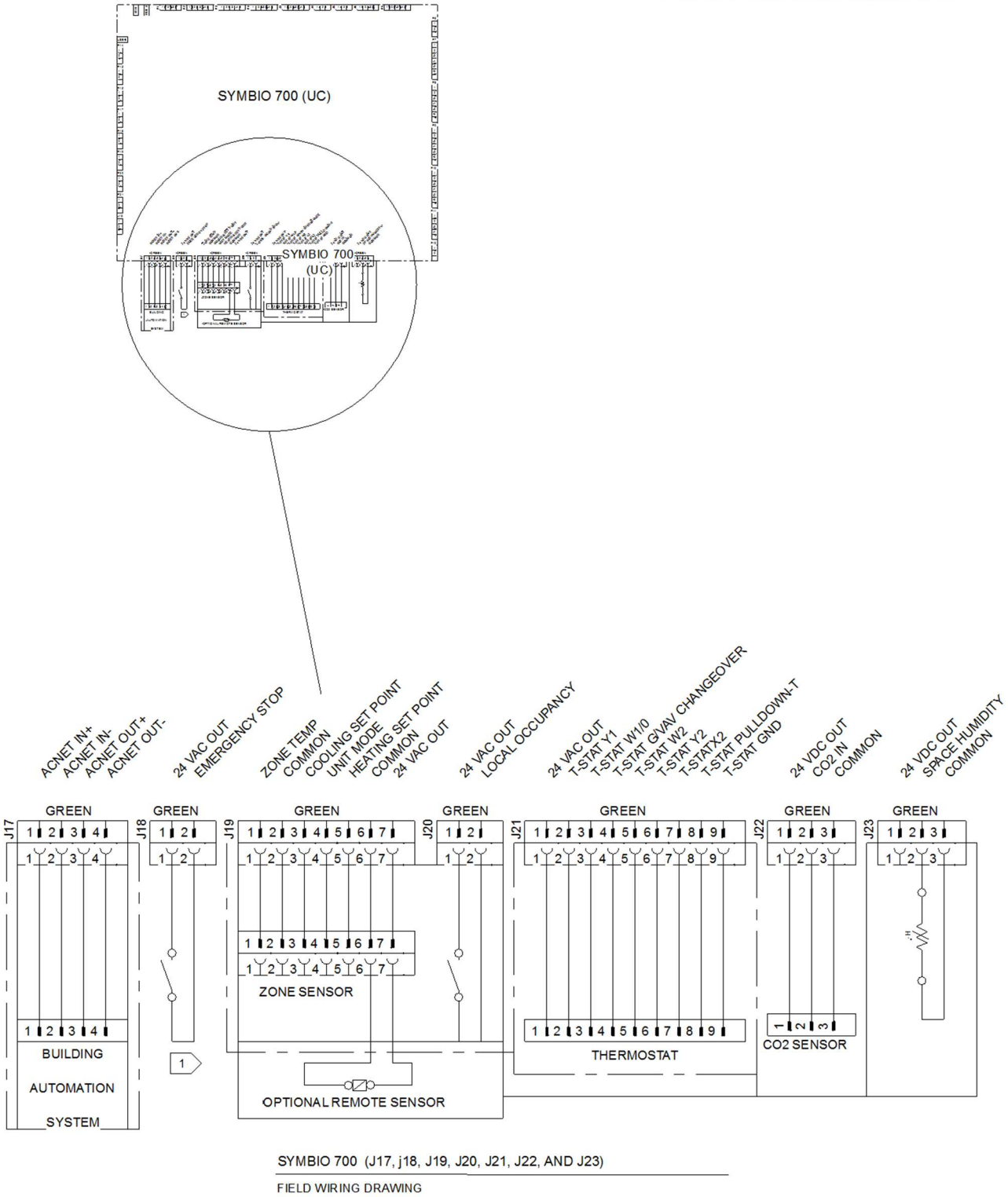
PROVIDES TEMPERATURE INPUT ONLY. CAN BE USED AS A SECONDARY REMOTE TEMPERATURE INPUT FOR THERMOSTATS.

BAYSEN077 - ZONE TEMPERATURE ONLY

ZONE SENSOR (ACCESSORY)

Field Wiring - 6- 25 Ton PKGD Precedent Unitary Rooftops
Item: C1 Qty: 1 Tag(s): AC-4

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



SYMBIO 700 (J17, j18, J19, J20, J21, J22, AND J23)

FIELD WIRING DRAWING

Field Installed Options - Part/Order Number Summary
This is a report to help you locate field installed options that arrive at the jobsite. This report provides part or order numbers for each field installed option, and references it to a specific product tag. It is NOT intended as a bill of material for the job.

Product Family - Packaged Rooftop, Cooling / Heating Units

Item	Tag(s)	Qty	Description	Model Number
A1	AC-1, AC-2	2	50 ton VOY3 - HGRH, CV	YCH600CEH*0B4NE80B*D ***HJB01K0*TN00E0000X* **********2

Field Installed Option Description	Part/Ordering Number
Wall mounted humidity sensor	BAYSENS036A

Product Family - Y4C

Item	Tag(s)	Qty	Description	Model Number
B1	AC-3	1	3 Ton - base	YHC036E3RLA**B0C1A1B0000G000001000000000

Field Installed Option Description	Part/Ordering Number
Remote room sensor	BAYSENS077A

Product Family - 6- 25 Ton PKGD Precedent Unitary Rooftops

Item	Tag(s)	Qty	Description	Model Number
C1	AC-4	1	15 Ton PKGD Gas - HGRH	YSJ180A3S0H**F0C0A1B1A004000000000000000

Field Installed Option Description	Part/Ordering Number
Humidity wall mounted sensor	BAYSENS036A
Remote Room Temperature Sensor	BAYSENS077A