RTU on Gymnasium Roof. Refer to drawings for locations and dimensions.

Nov 30 2023

Performance Summary

Tag: **RTU - 1**	Model No: **RKNL-H180CS35EAJA**	AHRI Ref: **5385795**
Project: **Brewster**	City: **DETROIT/METROPOLITA**	State: **MI**
Altitude: **663**	Air Discharge: **Downflow/Horizontal**	

Cooling Performance

AHRI Rating - Capacity: **182,000**	EER: **11.1**	IEER: **14.6**
Gross Cap @ AHRI Rating Conditions(btuh) - Capacity: **187,398**		
Ambient Air (F) - Dry Bulb: **87.6**	Wet Bulb: **72.6**	
Airflow (CFM) - CFM: **6,000**	SCFM: **6,000**	
System Entering Air (F) - Dry Bulb: **80**	Wet Bulb: **67**	% RH: **51.1**
System Leaving Air (F) - Dry Bulb: **58.8**	Wet Bulb: **57.1**	
Air Enthalpy (btu/lb) - Entering: **31.4**	Leaving: **24.5**	
Design Net Cooling Capacity (btuh) - Total: **187,400**	Sensible: **137,100**	Latent: **50,300**
Design Gross Capacity (btuh) - Capacity: **189,600**	Sensible: **139,300**	
Total Power - Watts: **17,998.1**	KW: **18**	

Heating Performance

Gas Heating Values (btuh) - Input: **350,000**	Output: **283,500**	
Heating Airflow (CFM) - CFM: **6,000**		
Air Dry Bulb (F) - Outdoor: **8**	Entering Air: **70**	Leaving Air: **113.8**
Air Temperature Rise (F) - Rise: **43.8**		

Air Moving System Characteristics

External Static Pressure (inches WG) - ESP: **1**		
Blower Speed or Speed Tap - RPM: **776**	Drive: **Belt**	
Motor Characteristic (watts & BHP) - Power: **2,665.4**		

Electrical Supply

Power Supply (Volt/Hz/Ph) - Volt/Hz/Ph: **208-230/60/3**		
Minimum Ampacity (amps) - Ampacity: **81**		
Max Overcurrent Protection (amps) - Fuse: **100**	HACR Breaker: **100**	

Dimensions, Weight & Clearances

Dimensions - Length: **152 - 3/32**	Width: **85 - 29/32**	Height: **57 - 23/32**
Weight (lb) - Weight: **2,005**		
Clearances (inches) - Front: **48**	Cond. Coil: **18**	Duct Side: **12**
Clearances (inches) - Evap End: **36**	Top: **60**	

The new degree of comfort.™

Product Submittal #: 8ee6c19d-734f-481d-b097-c8e7f9e9a70c

Submittal Printed on: 11/30/2023 7:36:04 PM

For Model: **RKNL-H180CS35EAJA**

Model: RKNL-H180CS35EAJA

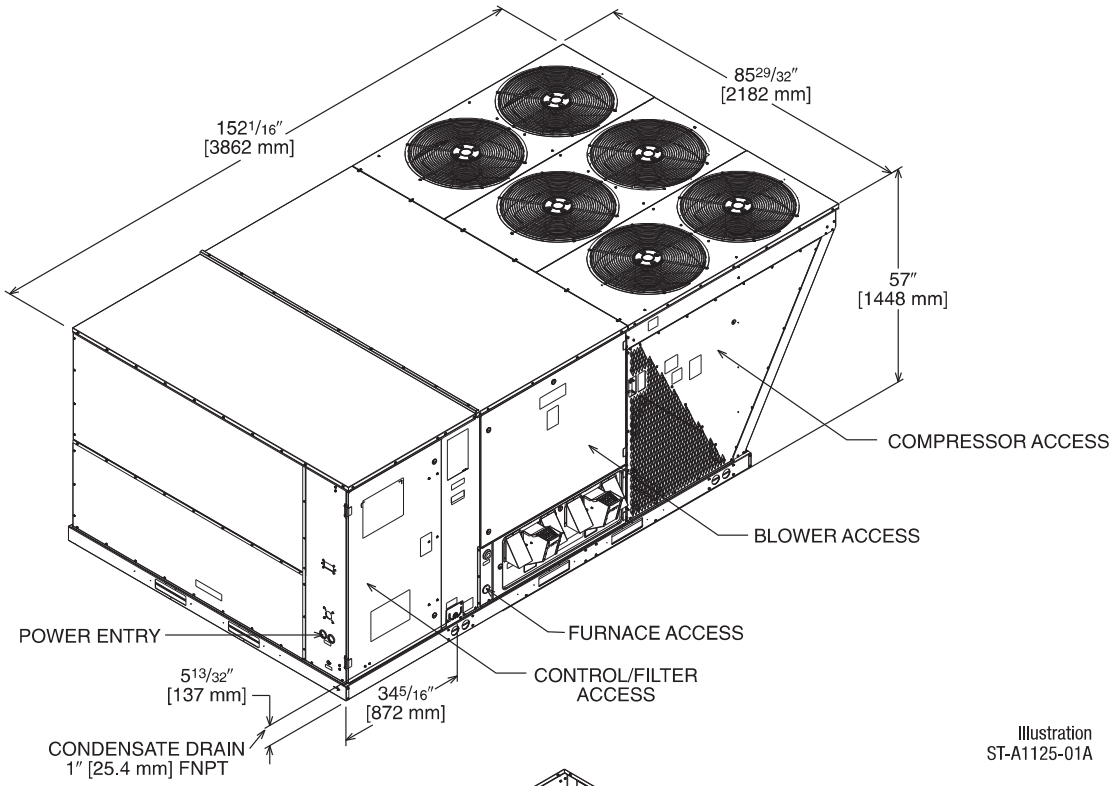
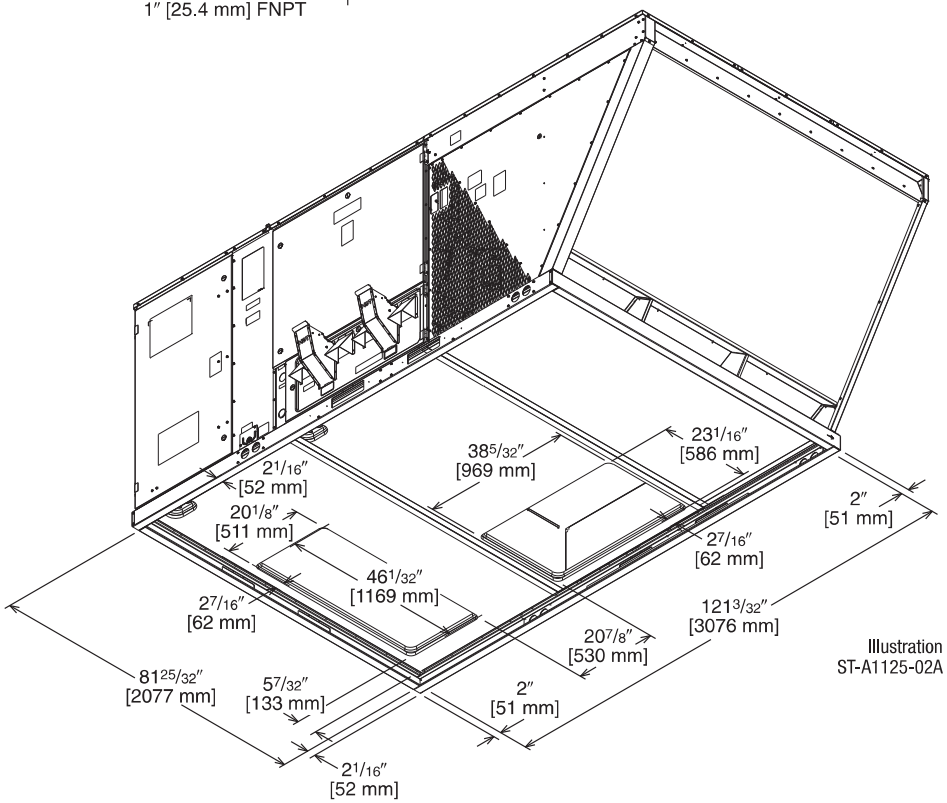


Illustration
ST-A1125-01A



BOTTOM VIEW

Illustration
ST-A1125-02A

[ ] Designates Metric Conversions

Model: RKNL-H180CS35EAJA

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS

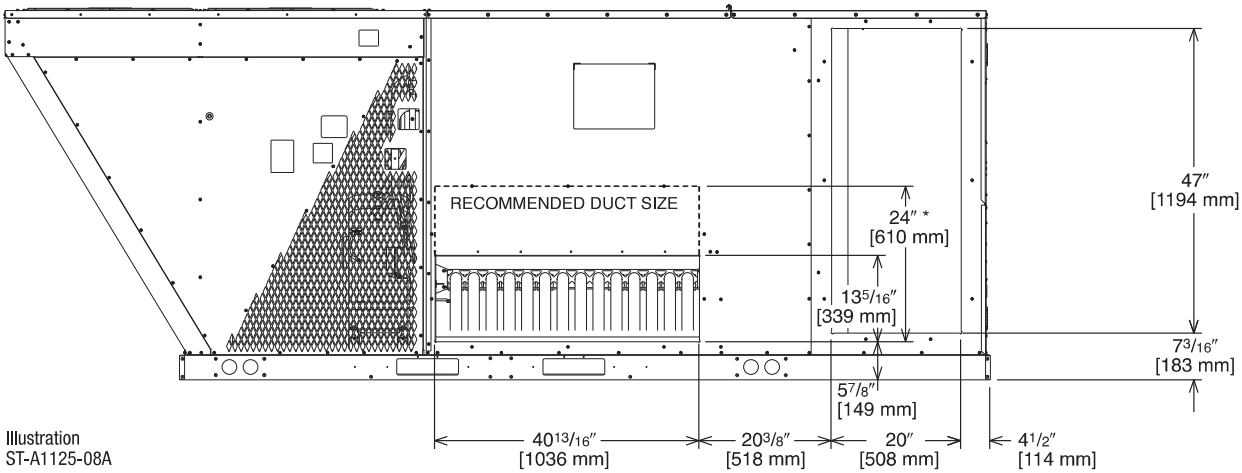


Illustration
ST-A1125-08A

* RECOMMENDED DUCT CONNECTION SIZE

DUCT SIDE VIEW (REAR)

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS

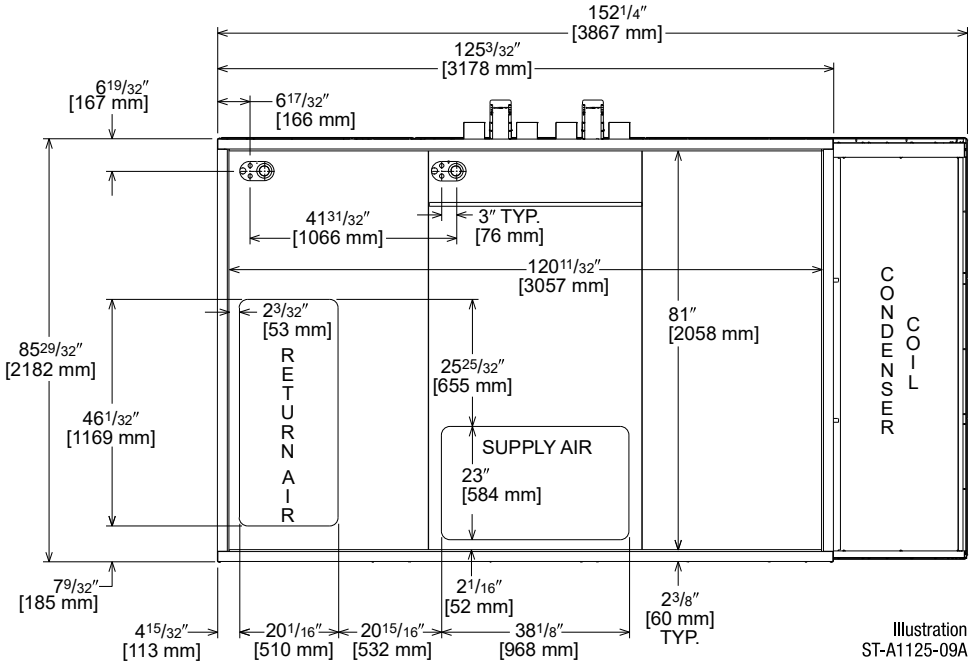


Illustration
ST-A1125-09A

BOTTOM VIEW

[ ] Designates Metric Conversions

Model: RKNL-H180CS35EAJA

RKNL-C/H STANDARD FEATURES INCLUDE:

- R-410A HFC refrigerant.
- Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Dual stage compressors.
- Convertible airflow – vertical downflow or horizontal sideflow.
- TXV refrigerant metering system on each circuit.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintaining high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream.
- Hinged major access door with heavy-duty gasketing, 1/4 turn latches and door retainers.
- Slide Out Indoor fan assembly for added service convenience.
- Powder Paint Finish meets ASTMB117 steel coated on each side for maximum protection. G90 galvanized.
- Base pan with drawn supply and return opening for superior water management.
- Forkable base rails for easy handling and lifting.
- Single point electrical connections.
- Internally sloped slide out condensate pan conforms to ASHRAE 62 standards.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 2 inch filter standard with slide out design.
- Two stage gas valve and direct spark ignition.
- Tubular heat exchange for long life and induced draft for efficiency and reliability.
- Solid state furnace control with on board diagnostics.
- 24 volt control system with resettable circuit breakers.
- Colored and labeled wiring.
- Copper tube/Aluminum Fin coils.
- Factory Installed Direct Digital Control (DDC) and sensors which can connect to LonWorks™ or BACnet® BAS systems for remote monitoring and control.
- (-H) Models with Variable Frequency Drive (VFD) meet ASHRAE 90.1-2010 and California Title 24

RXRX-AR02 - Carbon Dioxide Sensor

ECONOMIZERS

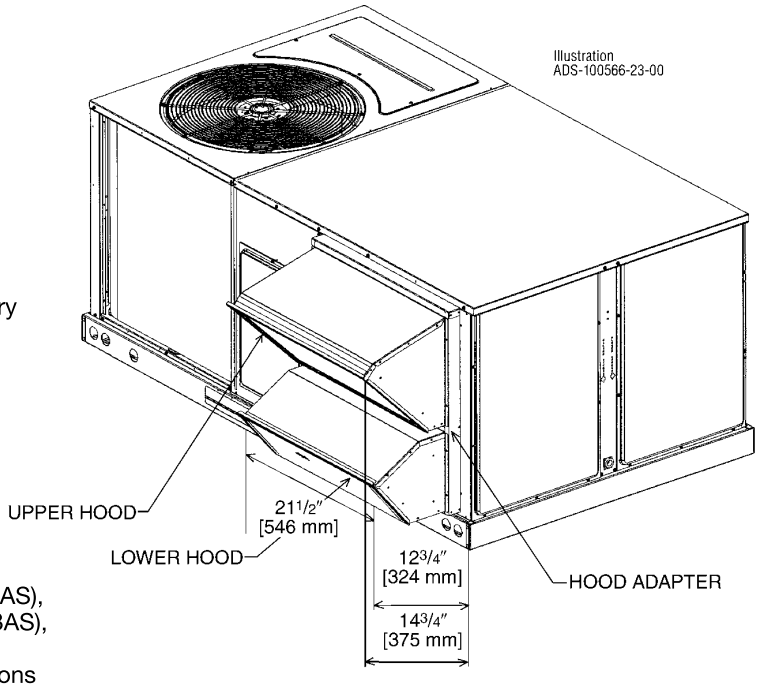
AXRD-01RKCCM3—3-5 Ton [10.6-17.6 kW] Models — **Single Enthalpy**

AXRD-01RKCDM3—3-5 Ton [10.6-17.6 kW] Models — **Single Enthalpy and smoke detector**

RXRX-AV03—3-5 Ton [10.6-17.6 kW] Models — **Dual Enthalpy Kit**

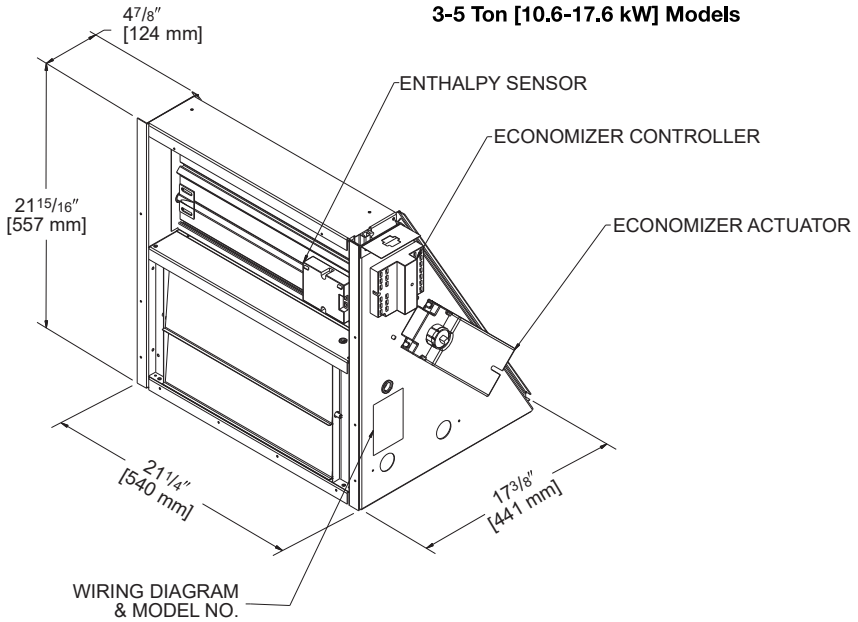
RXRX-AR02—3-5 Ton [10.6-17.6 kW] Models — **Optional CO_2 Sensor**

- Features **Honeywell** Controls
- Available factory installed or field accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Extra Low Leakage Dampers California Title 24 Compliant
- Horizontal or Downflow Applications
- Slip-In Design for Easy Installations
- Plug-In Polarized 12-pin Electrical Connections
- Pre-configuring—No Field Adjustments Necessary
- Standard Barometric Relief Damper Provided
- Single Enthalpy with Dual Enthalpy upgrade kit
- CO_2 Input Sensor Available (field installed)
- Economizer ships in complete for downflow or horizontal duct applications
- Field assembled hood ships with Economizer
- Optional Remote minimum position (Honeywell #S963B1128) is available from ProStock.
- Field installed power exhaust available
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS), or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen



[ ] Designates Metric Conversions

3-5 Ton [10.6-17.6 kW] Models



ECONOMIZERS—DOWNFLOW ONLY

Use to Select Field Installed Options Only

AXRD-01RMDCM3—Single Enthalpy (Outdoor) with DDC
AXRD-01RMDDM3—Single Enthalpy (Outdoor) w/Smoke Detector and DDC
RXRX-AR03—Optional Wall-Mounted CO_2 Sensor
RXRX-AV02—Dual Enthalpy Upgrade Kit

- Features **Honeywell** Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin & 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO_2 Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application.
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is Available from Prostock.
- Field Installed Power Exhaust Available
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS).

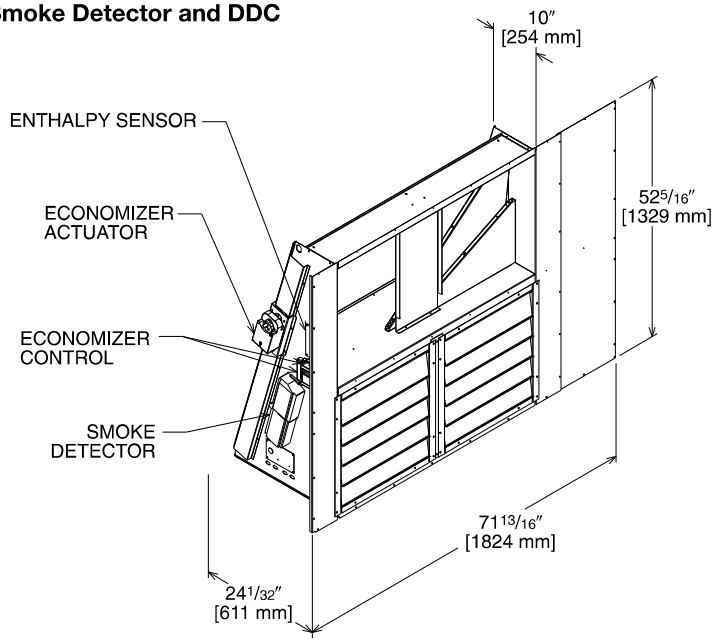


Illustration
ST-A00566-58

TOLERANCE ±.125

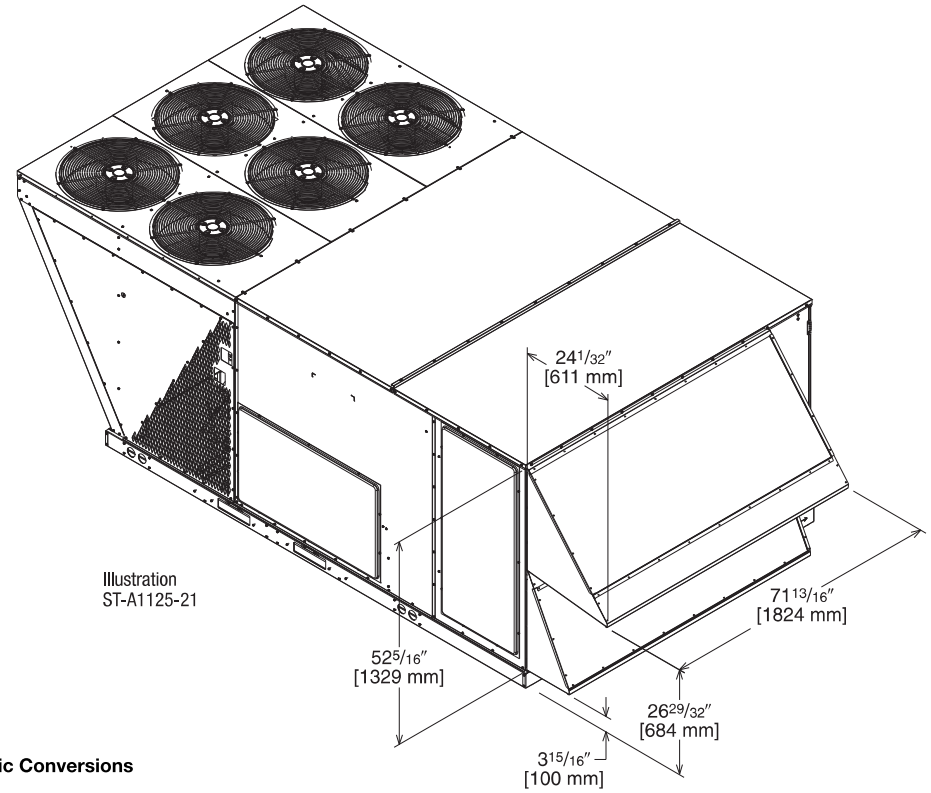


Illustration
ST-A1125-21

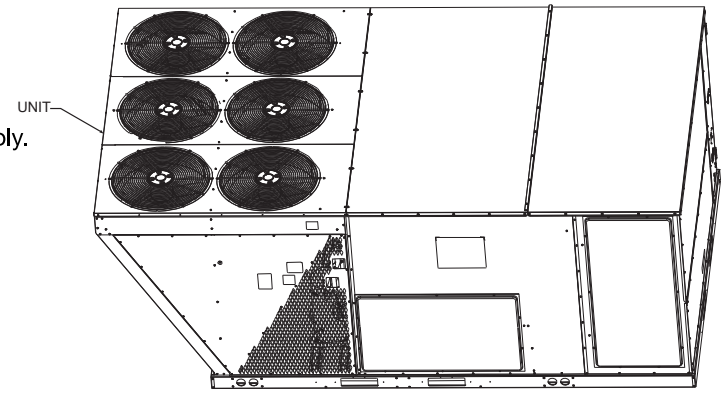
[ ] Designates Metric Conversions

RXKG-CBH14 - Roofcurb, 14"

ROOFCURBS (Full Perimeter)

- Rheem's roofcurb design can be utilized on 15, 20 and 25 ton [52.8, 70.3 and 87.9 kW] models.
- One available height (14" [356 mm]).
- Quick assembly corners for simple and fast assembly.
- 1" [25.4 mm] x 4" [102 mm] Nailer provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

TYPICAL INSTALLATION



ROOFCURB ASSEMBLY

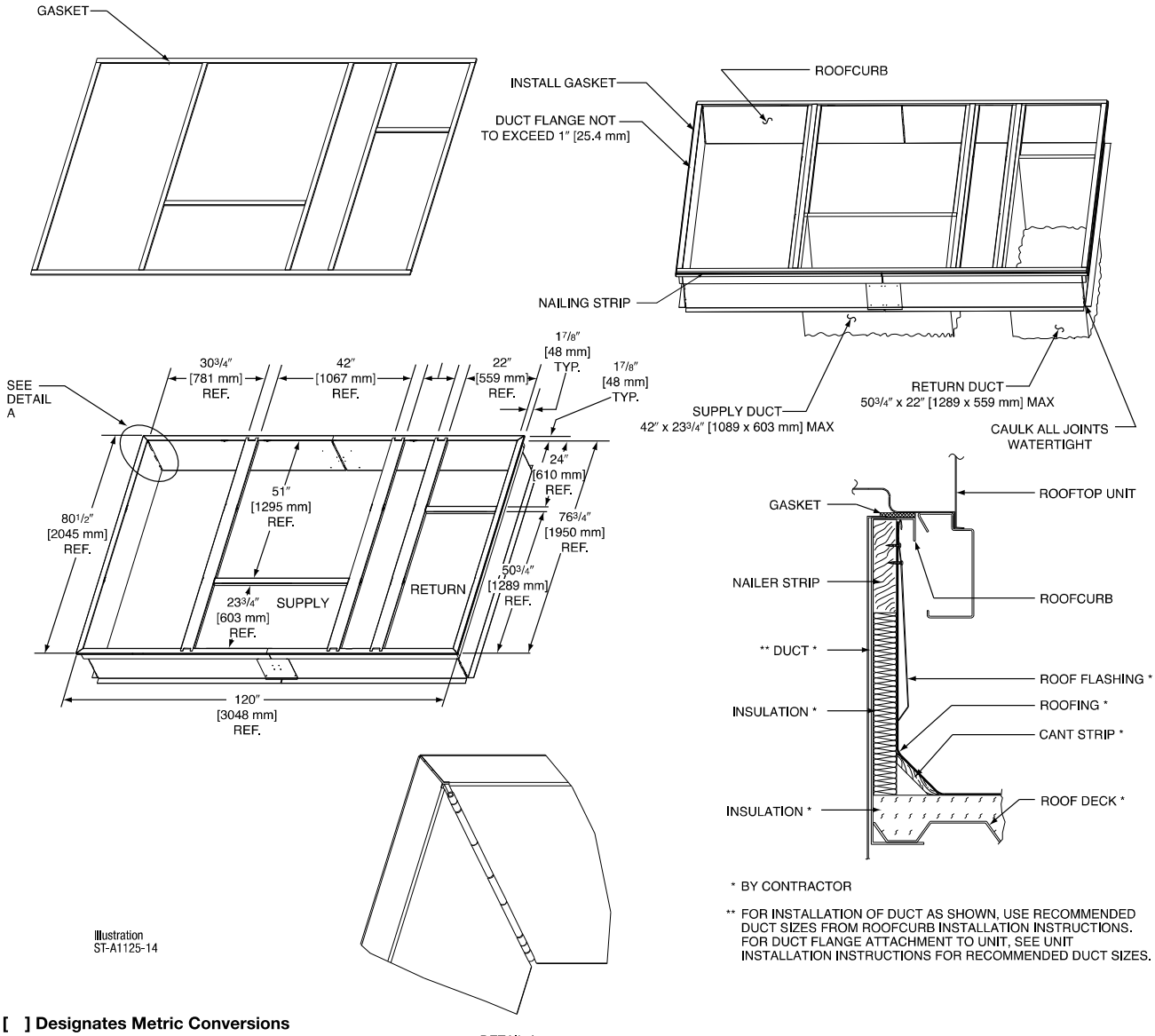


Illustration ST-A1125-14

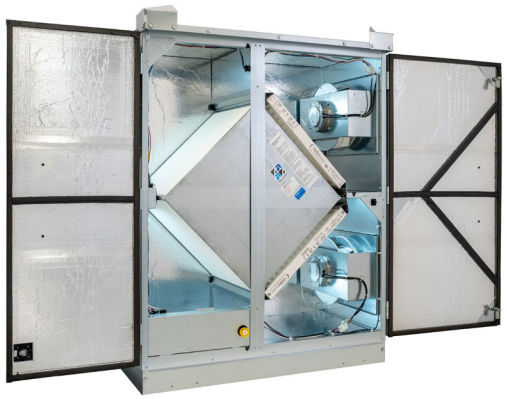
* BY CONTRACTOR

** FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS. FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES.

[ ] Designates Metric Conversions

ERV on Roof (Fully Concealed by Existing Parapet)

ENERGY RECOVERY VENTILATOR
EC MOTOR



Energy recovery core is AHRI Certified®

AHRI CERTIFIED®
www.ahridirectory.org
Air-to-Air ERV
AHRI Standard 1060
Energy Recovery COMPONENT is certified. Actual performance in packaged equipment may vary.

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Airflow Range: 250–1100 CFM

AHRI 1060 Certified Core:
One L125-G5

Standard Features:
Non-fused disconnect
24VAC transformer/relay package
Cross-core differential pressure ports
Independent blower control

Filters:
Total Qty. 2, MERV 8: 20" x 20" x 2"

Unit Weight:
261-415 lbs., varies by option(s)

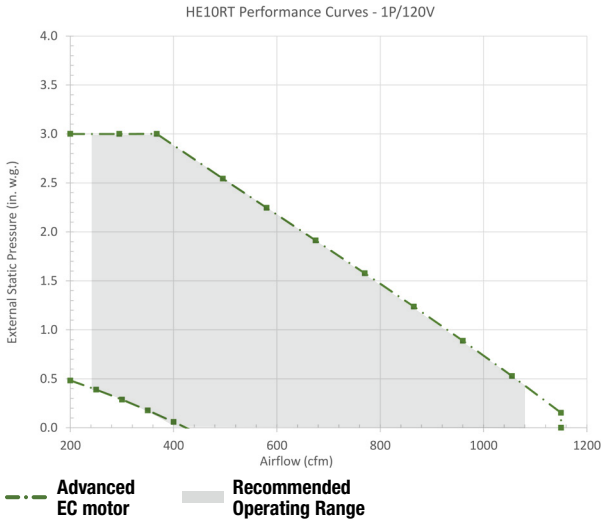
Max. Shipping Dimensions & Weight (on pallet):
60" L x 30" W x 82 1/4" H
455 lbs.

Motor(s):
Qty. 2, 370W ea., Direct drive EC motorized impeller packages (208–230V/1Ph/60Hz)

Options:
Qty. 2, Direct drive EC motorized impeller packages:
480W 120V/1Ph/60Hz (Advanced),
680W 208–230V/1Ph/60Hz (Advanced),
860W 460V/3Ph/60Hz (Advanced)
Fused disconnect
Integrated programmable controls: enhanced, premium
Class 1 low leakage motorized isolation dampers: FA, EA or both airstreams
Factory mounted filter alarms: both airstreams
Double wall construction
Exterior paint: white, custom colors

Accessories:
Filters: MERV 13, 2" (shipped loose)
Backdraft damper: 12"
Automatic balancing damper: 4", 5", 6"
Potentiometer speed control: remote installed
Roof curb: standard 14"
Curb wind clip
Engineered combo curb for Trane or Carrier RTUs
Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)
Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)
Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)
Smoke detector: duct mount (SD-D)
Indoor electric duct heater: RH series (1–11.5 kW), EK series (1–175 kW)
Indirect gas-fired duct furnace: GH series (50–400 MBH); Installed downstream of any fans
Duct flange kit: square 14" x 14", 2 flanges

EC MOTOR OPERATING RANGE AND FAN PERFORMANCE



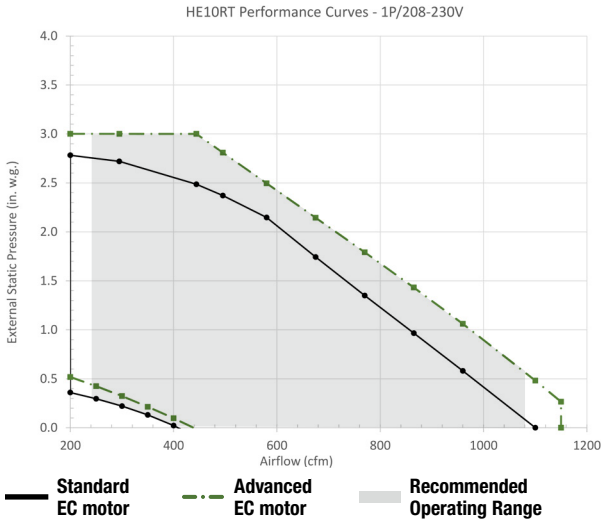
HE10RT MOTOR 1P/120V Options		
	Advanced EC	
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
200	3.00	567
295	3.00	739
367	3.00	870
495	2.54	978
580	2.25	1033
675	1.91	1080
770	1.58	1113
865	1.24	1133
960	0.89	1142
1055	0.53	1140
1150	0.15	1129
1150	0.00	1017

Note: Airflow performance includes effect of clean, standard filter supplied with unit.

HE 10RT

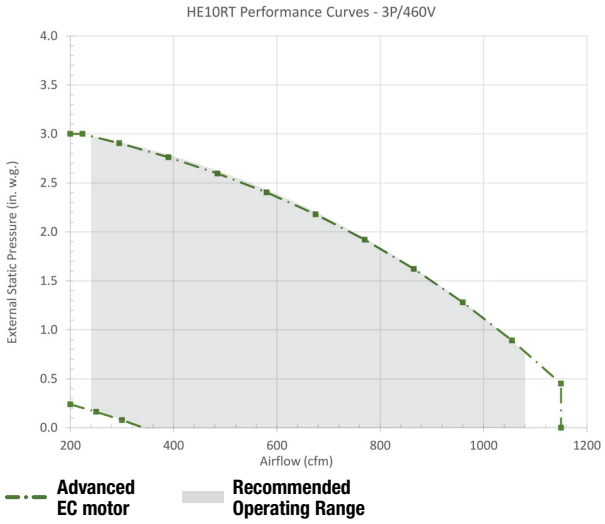
ENERGY RECOVERY VENTILATOR
EC MOTOR

EC MOTOR OPERATING RANGE AND FAN PERFORMANCE



HE10RT MOTOR 1P/208–230V Options				
Airflow (CFM)	Standard EC		Advanced EC	
	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
200	2.78	566	3.00	650
295	2.72	658	3.00	795
444	2.48	791	3.00	1051
495	2.37	832	2.81	1079
580	2.15	894	2.49	1120
675	1.74	900	2.14	1160
770	1.35	900	1.79	1190
865	0.97	900	1.43	1211
960	0.58	900	1.06	1222
1100	0.00	900	0.48	1217
1150			0.27	1209
1150			0.00	919

Note: Airflow performance includes effect of clean, standard filter supplied with unit.



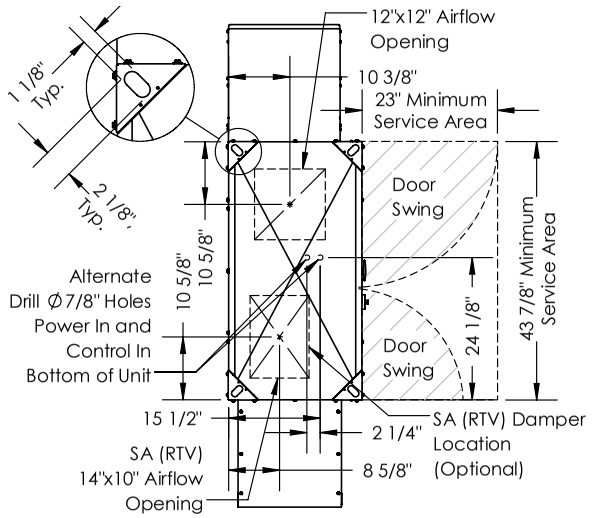
HE10RT MOTOR 3P/460V Options		
Airflow (CFM)	Advanced EC	
	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
200	3.00	829
224	3.00	860
295	2.91	925
390	2.76	1015
485	2.60	1105
580	2.40	1191
675	2.18	1273
770	1.92	1346
865	1.62	1408
960	1.28	1456
1055	0.89	1488
1150	0.45	1501
1150	0.00	1267

Note: Airflow performance includes effect of clean, standard filter supplied with unit.

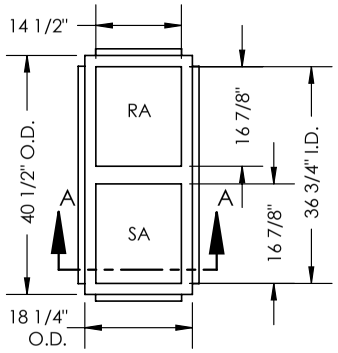
ELECTRICAL DATA

Option	Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
[EE] Standard	370	208–230	60	Single	1.73	3.9	20
[AA] Advanced	480	120	60	Single	6.5	14.6	15
	680	208–230	60	Single	5	11.3	15
	860	460	60	Three	1.22	2.7	15

HE10RT (RTV/RTR) ENERGY RECOVERY VENTILATOR EC MOTOR



TOP VIEW



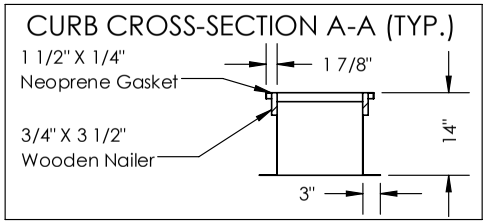
HE10RT CURB

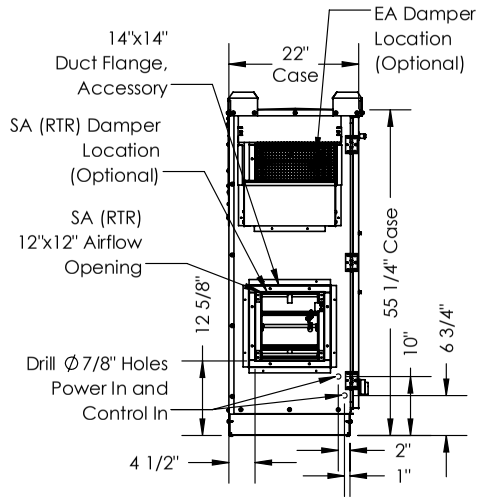
ABBREVIATIONS
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
SA: Supply Air to Inside
RTR: Rooftop Vertical RA Only
RTV: Rooftop Vertical RA & SA

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

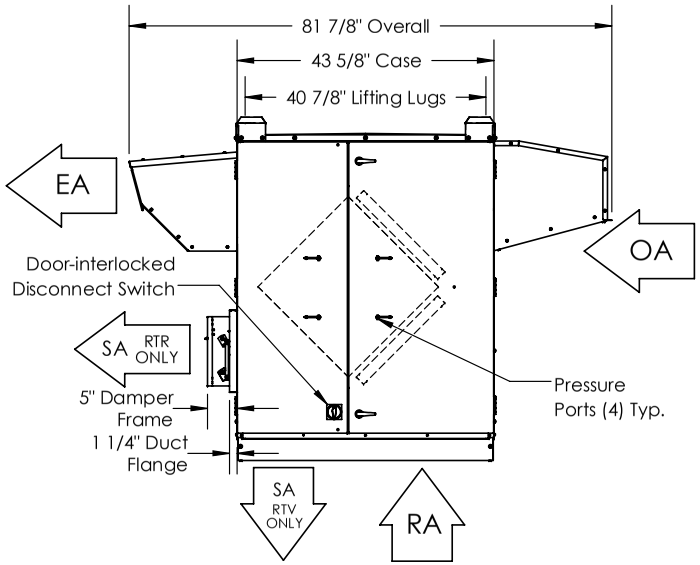
NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

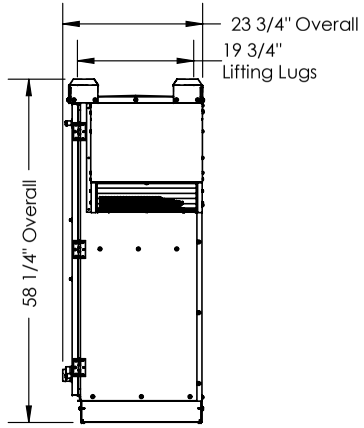




LEFT VIEW



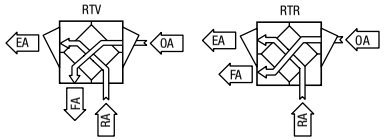
FRONT VIEW



RIGHT VIEW

AIRFLOW ORIENTATION

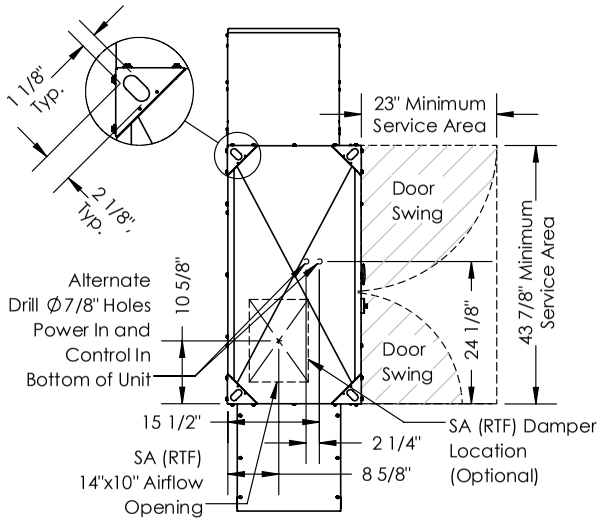
Available as shown:



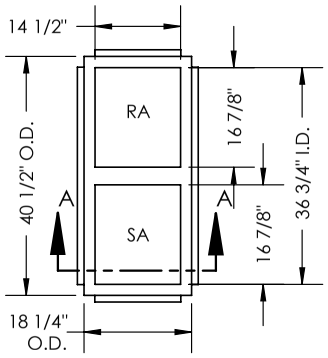
UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams cannot be switched.

HE10RT (RTH/RTF) ENERGY RECOVERY VENTILATOR EC MOTOR



TOP VIEW



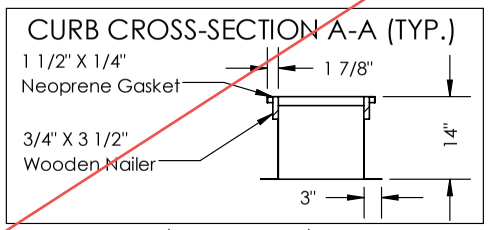
HE10RT CURB

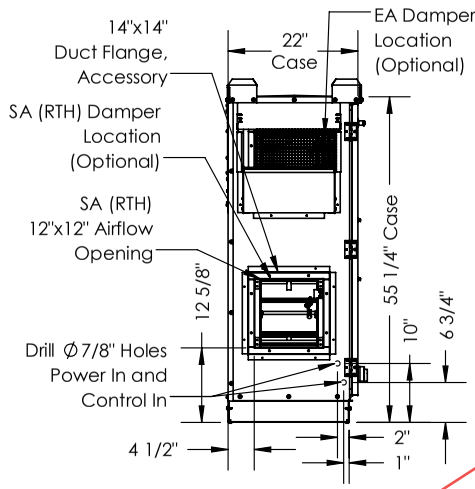
ABBREVIATIONS
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
SA: Supply Air to Inside
RTF: Rooftop Vertical SA Only
RTH: Rooftop Horizontal RA & SA

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

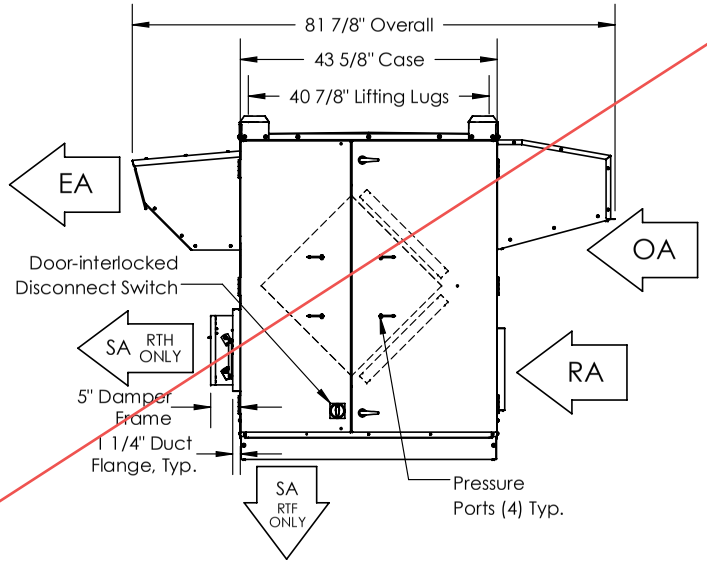
NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

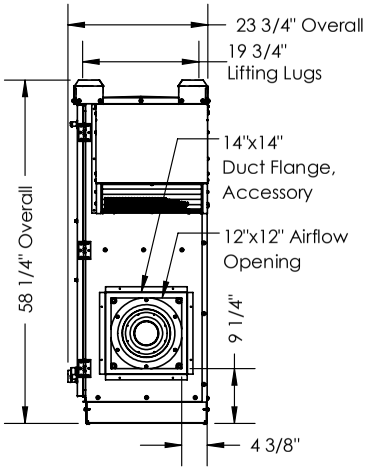




LEFT VIEW



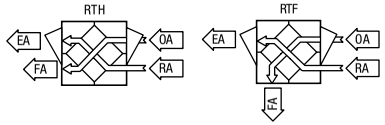
FRONT VIEW



RIGHT VIEW

AIRFLOW ORIENTATION

Available as shown:



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams cannot be switched.

Job Name/Location: **Tag No:**

Date: **For:** ☐ File ☐ Resubmit ☐ Approval ☐ Other

PO No.:

Architect: **GC:**

Engr: **Mech:**

Rep:
(Company) (Project Manager)

LMU480HHV
Multi F MAX with LGRED° Outdoor Unit
4.0 Ton Heat Pump

LG Life's Good

Heat Pump on Roof (Fully Concealed by Existing Parapet)

Performance:

Cooling Capacity (Min.-Rated-Max., Btu/h)	10,800~48,000~58,000
Heating Capacity (Min.-Rated-Max., Btu/h)	12,420~52,500~59,000
Max. Heating Capacity at 17°F (Btu/h)	56,740
Max. Heating Capacity at 5°F (Btu/h)	52,840
Max. Heating Capacity at -4°F (Btu/h)	46,010
Max. Heating Capacity at -13°F (Btu/h)	39,870
Cooling COP @95°F (Rated)	3.84
Heating COP @47°F (Rated)	3.62

Cooling Nominal Test Conditions:
Indoor: 80°F DB / 67°F WB
Outdoor: 95°F DB / 75°F WB

Heating Nominal Test Conditions:
Indoor: 70°F DB / 60°F WB
Outdoor: 47°F DB / 43°F WB

Electrical:

Power Supply (V/Hz/Ø)[1]	208-230V, 60, 1
MOP (A)	40
MCA (A)	32.7
Cooling Rated Amps (A)	29.2
Heating Rated Amps (A)	29.2
Compressor (A)	22.0
Fan Motor (A)	1.6 x 2
Locked Rotor Amps (A)	22

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Piping:

Refrigerant Charge (lbs.)	11.46
Liquid Line Connection (in., O.D.)	Ø3/8 x 1
Vapor Line Connection (in., O.D.)	Ø3/4 x 1
Maximum Total Piping[2] (ft.)	475.7
Min. / Max. ODU to IDU Piping[3] (ft.)	32.8 / 229.6
Piping Length[4] (no add'l refrigerant, ft.)	180.4
Maximum Elevation between ODU and IDU (ft.)	98.4
Maximum Elevation between IDU and IDU (ft.)	49.2

ODU = Outdoor Unit IDU = Indoor Unit

Features:

- R1 Scroll (Variable Speed) Compressor
- Auto operation
- Auto restart
- Self diagnosis
- Defrost / Deicing
- Low ambient cooling down to 14°F
- Soft start
- Restart delay (three [3] minutes)
- Factory installed Drain Pan Heater

Optional Accessories:

☐ PI-485 - PMNFP14A1
☐ AC Smart 5 - PACS5A000
☐ ACP 5 - PACP5A000
☐ MultiSITE™ Comm. Mgr. - PBACNBTR0A
☐ Power Distribution Indicator (PDI) Premium - PQNUD1S41
☐ Mobile LGMV - PLGMVW100
☐ Low Ambient Wind Baffle (Cooling Operation Down to -4°F) - ZLABGP04A x2

Required[5] Accessories:

☐ 2 Port BD Unit - PMBD3620
☐ 3 Port BD Unit - PMBD3630
☐ 4 Port BD Unit - PMBD3640
☐ 4 Port BD Unit - PMBD3641

Operating Range:

Cooling (°F DB)	
Heating (°F WB)	

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (Cool / Heat) ±1 dB(A)[6]	54 / 56
Net / Shipping Weight (lbs.)	218 / 243
Heat Exchanger Coating	Gold Fin™
Minimum No. of Indoor Units	2
Maximum No. of Indoor Units	8

Compressor:

Type	R1 Scroll
Quantity	1
Oil / Type	FVC68D

Fan:

Type	Propeller
Quantity	2
Motor / Drive	Brushless Digitally Controlled/Direct
Max. Airflow Rate (CFM)	2,119 x 2

Notes:

1. Acceptable operating voltage: 187V - 253V.
2. Piping lengths are equivalent.
3. 180.4 ft. of Main Piping + 49.2 ft. of Branch Piping.
4. 49.2 ft. of Main Piping + 131.2 of Branch Piping.
5. At least one branch distribution (BD) unit is required for system operation; a maximum of two can be installed per ODU with the use of a Y-branch accessory (PMBL5620).
6. Sound pressure levels are tested in an anechoic chamber under ISO Std. 3745.
7. All power / communication cable to be minimum 14 AWG from the ODU to the BD unit, and 14 AWG from the BD unit to the IDU.
8. All power / commuication cable to be 4-conductor, stranded, shielded or unshielded, and must comply with applicable local and national codes. If shielded, the wire must be grounded to the chassis at the ODU only.
9. Power wiring size must comply with the applicable local and national codes.
10. See the Engineering Manual Capacity Tables for ODU sensible and latent capacities.
11. See the Engineering Manual Combination Tables for allocation of ODU rated capacity to each connected IDU when all are calling for full capacity. Allocation percentages should be applied to ODU capacity at design conditions.
12. This data is rated 0 ft. above sea level, with 0 ft. level difference between ODU and IDUs, and the following refrigerant pipe lengths:
    LMU361HHV: 16.4 ft. Main + (16.4 ft. Branch x 5) = 98.4 ft.
    LMU421HHV: 16.4 ft. Main + (16.4 ft. Branch x 6) = 114.8 ft.
    LMU480HHV: 16.4 ft. Main + (16.4 ft. Branch x 8) = 147.6 ft.
    All capacities are net with a combination ratio between 95 - 105%.
13. Must follow installation instructions in the applicable LG installation manual.
14. See the Engineering Manual Capacity Tables for ODU capacity at design conditions.

ENERGY STAR 162279 US Inverter AHRI CERTIFIED® www.ahridirectory.org Unitary Small HP AHRI Standard 210/240

For a complete list of available accessories, contact your LG representative.
For continual product development, LG reserves the right to change specifications without notice.

Job Name/Location: _____

LMU480HHV
Multi F MAX with LGRED° Outdoor Unit
4.0 Ton Heat Pump

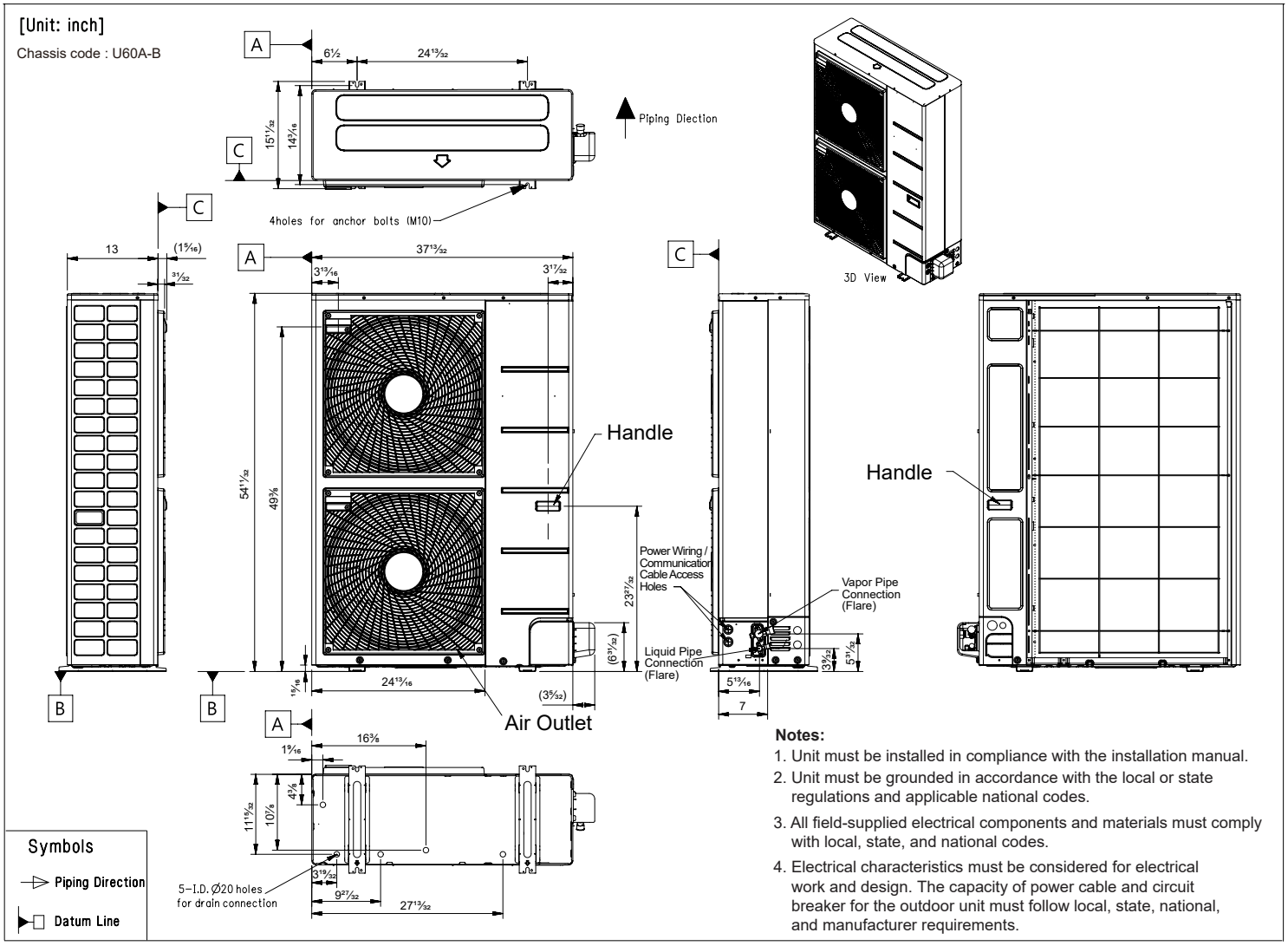
Tag No.: _____

Date: _____

PO No.: _____

[Unit: inch]

Chassis code : U60A-B



Symbols

- Piping Direction
- Datum Line

Notes:

1. Unit must be installed in compliance with the installation manual.
2. Unit must be grounded in accordance with the local or state regulations and applicable national codes.
3. All field-supplied electrical components and materials must comply with local, state, and national codes.
4. Electrical characteristics must be considered for electrical work and design. The capacity of power cable and circuit breaker for the outdoor unit must follow local, state, national, and manufacturer requirements.

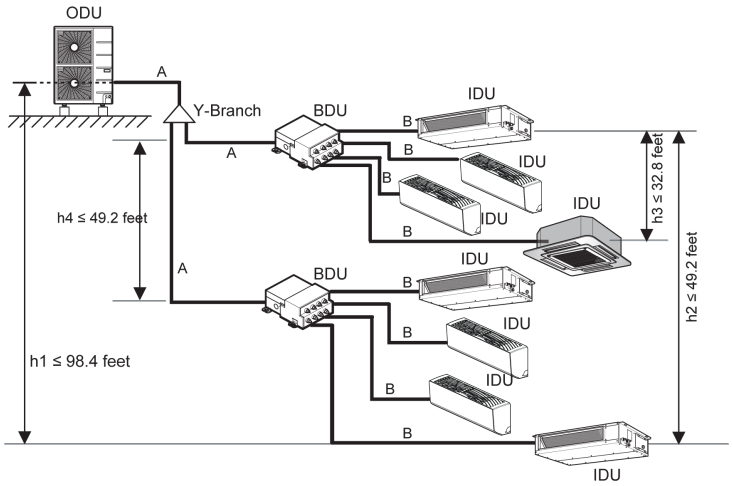
Job Name/Location: _____

LMU480HHV
Multi F MAX with LGRED° Outdoor Unit
4.0 Ton Heat Pump

Tag No.: _____

Date: _____

PO No.: _____

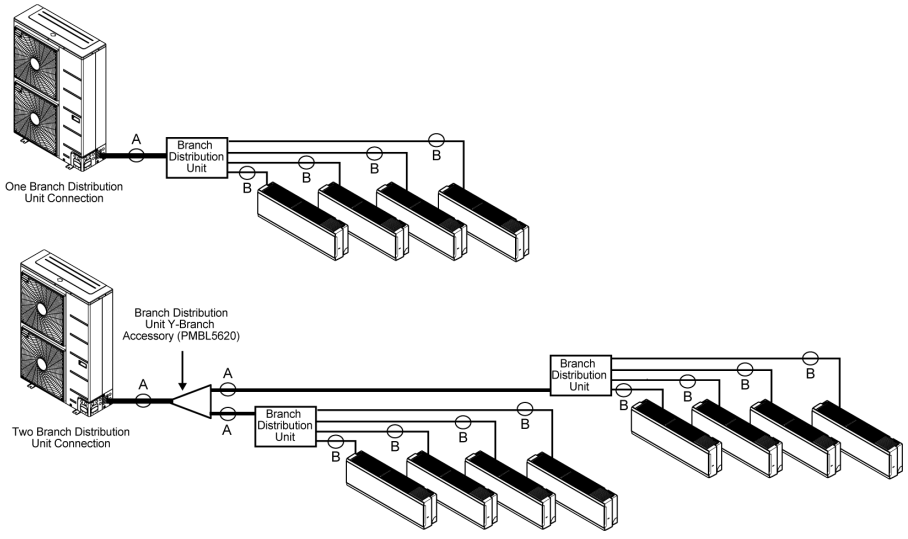


Example: LMU480HHV outdoor unit with eight (8) indoor units and two (2) branch distribution units connected.
ODU: Outdoor Unit.
IDU: Indoor Unit.
BDU: Branch Distribution Unit(s).
A: Main Pipe.
B: Branch Pipe (Branch Distribution Unit[s] to Indoor Unit[s]).

Multi F MAX with LGRED Outdoor Unit Refrigerant Piping System Limitations.

Pipe Length (ELF = Equivalent Length of pipe in Feet)	**Total piping length (ΣA + ΣB)**		≤475.7 feet
	Main pipe (Outdoor Unit to Branch Distribution Units: A)	**Minimum for Each (A) Piping Segment**	16.4 feet
		Maximum (ΣA)	≤180.4 feet
	Total branch piping length (ΣB)		≤295.3 feet
	Branch pipe (Branch Distribution Units to Indoor Units: B)	**Minimum**	16.4 feet
		Maximum	≤49.2 feet
Elevation Differential (All Elevation Limitations are Measured in Actual Feet)	**If outdoor unit is above or below indoor unit (h1)**		≤98.4 feet
	Between the farthest two indoor units (h2)		≤49.2 feet
	Between branch distribution unit and farthest connected indoor unit(s) (h3)		≤32.8 feet
	Between branch distribution units (h4)		≤49.2 feet

Installing the Unit



Multi F MAX with LGRED Piping Sizes.

Piping	Main Pipe A (inch)	Branch Pipe B
Liquid	Ø3/8	Depends on the size of the indoor unit piping.
Vapor	Ø3/4	