

PACKAGED HEAT PUMP ROOFTOP UNITS WITH X-VANE™ FAN TECHNOLOGY WITH OPTIONAL ELECTRIC HEAT (RHV) 15-25 TONS

The 15 to 25 ton RHV181-300 packaged heat pump rooftop units (RTU) with X-Vane Fan Technology were designed by customers to provide value added benefits never seen in this type of equipment before.

New feature include:

- A patented, industry first, Vane Axial Indoor Fan System, powered by an electronically commutated motor for quiet, efficient, and reliable operation. Compared to traditional belt driven forwards curved fans, this system has:
 - 75% fewer moving parts
 - No fan belts, pulleys, shaft, and shaft bearings
 - Up to 40% better efficiency than traditional belt drive forward curve fans
 - Slow ramp up capability for better sound and comfort control
 - Internal protection from phase reversal and phase loss situations
 - High external static capability
 - Slide out blower assembly design
- Reliable 2 stage cooling with tandem scroll compressors technology, fully active evaporator coil, and mixed air temperature protection on all models
- New unit control board with intuitive indoor fan adjustment that uses simple dial and switch adjustments
- An industry first 25 ton packaged heat pump
- Reliable copper tube/aluminum fin condenser coil with 5/16 in. tubing to help reduce refrigerant charge and reduce weight versus prior designs

RHV units up to 25 tons are specifically designed for dedicated factory-supplied vertical air flow or horizontal air flow. No special field kits are required. All footprints were maintained to easily fit on our R-410A and select competitor curbs, making replacements easier than ever.

With “no-strip” screw collars, handled access panels, and more, the unit is easy to install, easy to maintain, and easy to use.

Our 2-Speed Indoor Fan Motor System through our Vane Axial fan allows our 15 to 25 ton RHV units to deliver IEER values up to 14.0 and provide optimum comfort and control from a packaged rooftop.

Installation ease

Lighter units make for easy replacement and aid in the structural approval process. Units have simple, fast plug-in connections to the standard integrated unit control board (UCB). Clearly labeled connections points to reduce installation time. Also, a large control box provides room to work.

Easy to maintain

With the new X-Vane Fan Vane Axial fan system and direct drive ECM motor, there is no longer a need to adjust or replace belts or pulleys as in past designs. This frees up maintenance, installation and commissioning time.

Easy access handles provide quick and easy access to all normally serviced components. Our “no-strip” screw system has superior holding power and guides screws into position while preventing the screw from stripping the unit’s metal.

Sloped, corrosion resistant composite drain pan sheds water and won’t rust.



RHV181

X-Vane™ Fan

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Easy to use

The newly re-designed Unit Control Board puts all connections and troubleshooting points in one convenient place. Most low voltage connections are made to the same board and make it easy to access it. Setting up the fan is simple by an intuitive switch and rotary dial arrangement.

RHV rooftops have high and low pressure switches, a new mixed air temperature switch, a filter drier, and 2 in. filters standard.

X-Vane Fan Technology

Direct drive X-Vane Fan Technology indoor fan system uses Vane Axial fan design and electrically commutated motors. This new Vane Axial design over past belt drive systems has 75% fewer moving parts, uses up to 40% less energy and has no fan belts, blower bearings and shaft. Full fan and motor assembly also slides out for easier maintenance and service.

Features/Benefits

Value-added features include:

- Single point electrical connections
- 15 to 25 ton models use TXV refrigerant metering devices
- Scroll compressors with internal line-break overload protection
- Units come with an easy access tool-less filter door. Filter track tilts out for filter removal and replacement. All filters are the same size in each unit

Operating efficiency and flexibility

These RHV packaged rooftops meet the Department of Energy (DOE) 2023 efficiency standard, as well as the latest ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1 and IECC^{®1} (International Energy Conservation Code) minimum IEER efficiency requirements.

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Model number nomenclature

RHV181-300 Model Number Nomenclature

[illegible]

¹ Combinations of factory-installed options are available, contact your representative for details.

Capacity ratings

RHV AHRI Ratings, Cooling Mode^{a,b,c}

UNIT	COOLING STAGES	NOMINAL CAPACITY (tons)	NET COOLING CAPACITY (Btuh)	TOTAL POWER (kW)	EER	IEER WITH 2-SPEED INDOOR FAN MOTOR	AHRI RATING CFM
RHV181	2	15	172,000	16.2	10.60	14.0	6300
RHV240	2	20	240,000	24.5	9.80	14.0	8000
RHV300	2	25	278,000	29.3	9.50	14.0	10,000

NOTE(S):

a. Rated in accordance with AHRI Standards 340/360.

b. Rating are based on:

Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.

IEER Standard: A measure that expresses cooling part-load EER efficiency for commercial unitary air-conditioning and heat pump equipment on the basis of weighted operation at various load capacities.

c. All RHV units comply with ASHRAE 90.1-2019 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2023 (Department of Energy) Energy Standard for minimum IEER requirements.

LEGEND

AHRI — Air-Conditioning, Heating and Refrigeration Institute
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio



RHV AHRI Ratings, Heating Mode^{a,b,c}

UNIT	HEATING, LOW 17°F (−8°C) AMBIENT		HEATING, HIGH 47°F (8°C) AMBIENT		AHRI RATING CFM
	Net Capacity (Btuh)	COP	Net Capacity (Btuh)	COP	
RHV181	106,000	2.30	168,000	3.30	6300
RHV240	136,000	2.30	234,000	3.30	8000
RHV300	158,000	2.30	274,000	3.30	9500

NOTE(S):

a. Rated in accordance with AHRI Standards 340/360.

b. Rating are based on:

Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.

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LEGEND

AHRI — Air-Conditioning, Heating and Refrigeration Institute
COP — Coefficient of Performance



Capacity ratings (cont)

Sound Rating Table^a

UNIT	COOLING STAGES	OUTDOOR SOUND (dB) AT 60 Hz ^b								
		A-WEIGHTED ^c	63	125	250	500	1000	2000	4000	8000
RHV181	2	84.1	92.2	83.9	80.4	81.8	78.7	76.5	72.2	65.4
RHV240	2	85.9	97.1	88.3	84.4	83.3	80.7	77.4	73.4	67.3
RHV300	2	85.9	97.1	88.3	84.4	83.3	80.7	77.4	73.4	67.3

NOTE(S):

- Outdoor sound data is measured in accordance with AHRI.
- Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
- A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of "average" human ear. A-weighted measurements for RHV units are taken in accordance with AHRI.

LEGEND

dB — Decibel

Minimum - Maximum Airflow Ratings (cfm) — Cooling Units and Accessory Electric Heat

UNIT	COOLING			ELECTRIC HEAT ^a	
	MINIMUM 2-SPEED AIRFLOW (LOW SPEED)	MINIMUM 2-SPEED AIRFLOW (HIGH SPEED)	MAXIMUM AIRFLOW CFM	MINIMUM AIRFLOW CFM	MAXIMUM AIRFLOW CFM
RHV181	2700	4500	7500	4500	7500
RHV240	3000	6000	10,000	6000	10,000
RHV300	3750	7500	12,500	7500	12,500

NOTE(S):

- Electric heat modules and single point kits are available as field-installed accessories for RHV units.

Physical data

RHV181-300 Physical Data

RHV UNIT	RHV181	RHV240	RHV300
NOMINAL TONS	15	20	25
BASE UNIT OPERATING WT (lb) ^a	1627	2057	2125
REFRIGERATION SYSTEM			
No. Circuits/No. Compressors/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll
R-410A Charge (lb-oz)	27-0	48-0	48-0
Cooling Metering Device	TXV	TXV	TXV
Heating Metering Device	TXV	TXV	TXV
High-Pressure Trip/Reset (psig)	630/505	630/505	630/505
Loss of Charge Trip/Reset (psig)	27/44	27/44	27/44
EVAPORATOR COIL			
Material (Tube/Fin)	Cu/Al	Cu/Al	Cu/Al
Coil Type	3/8 in. RTPF	3/8 in. RTPF	3/8 in. RTPF
Rows/FPI	4/15	4/15	4/15
Total Face Area (ft ²)	22	26	26
Condensate Drain Connection Size	3/4 in.	3/4 in.	3/4 in.
CONDENSER COIL			
Material (Tube/Fin)	Cu/Al	Cu/Al	Cu/Al
Coil Type	5/16 in. RTPF	5/16 in. RTPF	5/16 in. RTPF
Rows/FPI	2/18	2/18	2/18
Total Face Area (ft ²)	41.6	59.2	59.2
EVAPORATOR FAN AND MOTOR			
Standard/Medium Static 3 Phase			
Motor Qty / Drive Type	2 / Direct	2 / Direct	2 / Direct
Max Cont bhp	2.4	2.4	3
Range (rpm)	250-2000	250-2000	250-2200
Fan Qty / Type	2 / Vane Axial	2 / Vane Axial	2 / Vane Axial
Fan Diameter (in.)	22	22	22
Vertical High Static 3 Phase			
Motor Qty / Drive Type	2 / Direct	2 / Direct	2 / Direct
Max Cont bhp	3	5	5
Range (rpm)	250-2200	250-2200	250-2200
Fan Qty / Type	2 / Vane Axial	2 / Vane Axial	2 / Vane Axial
Fan Diameter (in.)	22	22	22
Horizontal High Static 3 Phase			
Motor Qty / Drive Type	2 / Direct	2 / Direct	2 / Direct
Max Cont bhp	5	5	5
Range (rpm)	250-2200	250-2200	250-2200
Fan Qty / Type	2 / Vane Axial	2 / Vane Axial	2 / Vane Axial
Fan Diameter (in.)	22	22	22
CONDENSER FAN AND MOTOR			
Qty / Motor Drive Type	3 / Direct	4 / Direct	4 / Direct
Motor hp / rpm	1/4 / 1100	1/4 / 1100	1/4 / 1100
Fan Diameter (in.)	22	22	22
FILTERS			
RA Filter Qty / Size (in.)	6 / 25x25x2	9 / 20x25x2	9 / 20x25x2
OA Inlet Screen Qty / Size (in.)	4 / 16x25x1	4 / 16x25/1	4 / 16x25/1

NOTE(S):

a. Base unit operating weight does not include weight of options.

LEGEND

bhp — Brake Horsepower
FPI — Fins Per Inch
OA — Outdoor Air
RA — Return Air

Options and accessories

ITEM	FACTORY- INSTALLED OPTION	FIELD- INSTALLED ACCESSORY
ELECTRIC HEAT		
Electric Resistance Heaters		X
Single Point Kits		X
CABINET		
Hinged Access Panels	X	
4 in. Filter Rack (filters not included)		X
COIL OPTIONS		
Cu/Cu Indoor and/or Outdoor Coils	X	
Pre-Coated Outdoor Coils	X	
Premium, E-Coated Indoor and/or Outdoor Coils	X	
Condenser Coil Hail Guard	X	X
CONTROLS		
Thermostats, Temperature Sensors, and Subbases		X
Smoke Detector (supply and/or return air)	X	X
Horn Strobe Annunciator ^a		X
Time Guard II Compressor Delay Control Circuit		X
Phase Monitor	X	X
Condensate Overflow Switch	X	X
ECONOMIZERS AND OUTDOOR AIR DAMPERS		
EconomizerONE for Electromechanical Controls, complies with FDD (standard and ultra low leak damper models) ^b	X	X
Wi-Fi Stick for EconomizerONE (optional)		X
Motorized Two-Position Outdoor-Air Damper		X
Manual Outdoor-Air Damper (25% and 50%)		X
Barometric Relief ^c	X	X

ITEM	FACTORY- INSTALLED OPTION	FIELD- INSTALLED ACCESSORY
Power Exhaust — Centrifugal Design	X	X
ECONOMIZER SENSORS AND IAQ DEVICES		
Single Dry Bulb Temperature Sensors ^d	X	X
Differential Dry Bulb Temperature Sensors ^d		X
Single Enthalpy Sensors ^d	X	X
Differential Enthalpy Sensors ^d		X
CO ₂ Sensor (wall, duct, or unit mounted) ^d	X	X
INDOOR MOTOR AND DRIVE		
Multiple Motor and Drive Packages	X	
LOW AMBIENT CONTROLS		
Winter Start Kit ^e		X
Low Ambient Controller to 0°F (–18°C) ^e		X
POWER OPTIONS		
Convenience Outlet (powered)	X	
Convenience Outlet (unpowered)	X	
Convenience Outlet, 20 amp (unpowered)		X
Non-Fused Disconnect ^f	X	
ROOF CURBS		
Roof Curb 14 in. (356 mm)		X
Roof Curb 24 in. (610 mm)		X

NOTE(S):

- Requires a field-supplied 24V transformer for each application.
- FDD (Fault Detection and Diagnostic) capability per California Title 24 section 120.2.
- Included with economizer.
- Sensors used to optimize economizer performance.
- See application data for assistance.
- Non-fused disconnect switch cannot be used when unit FLA electrical rating exceeds 200 amps (all voltages).

Options and accessories (cont)

Factory-installed options

Economizer (dry-bulb or enthalpy)

Economizers save money. They bring in fresh, outside air for ventilation; and provide cool, outside air to cool your building. This is the preferred method of low-ambient cooling. When coupled to CO₂ sensors, economizers can provide even more savings by coupling the ventilation air to only that amount required.

Economizers are available, installed and tested by the factory, with either enthalpy or dry-bulb temperature inputs. Additional sensors are available as accessories to optimize the economizers. Economizers include a powered exhaust system to help equalize building pressures.

Economizers can be factory-installed or easily field-installed.

Unit mounted CO₂ sensor

The CO₂ sensor works with the economizer to intake only the correct amount of outside air for ventilation. As occupants fill your building, the CO₂ sensor detects their presence through increasing CO₂ levels, and opens the economizer appropriately. When the occupants leave, the CO₂ levels decrease, and the sensor appropriately closes the economizer. This intelligent control of the ventilation air, called demand controlled ventilation (DCV), reduces the overall load on the rooftop, saving money. It is also available as a field-installed accessory.

Smoke detector (supply and/or return air)

Smoke detectors make your application safer and your job easier. Our smoke detectors immediately shut down the rooftop unit when smoke is detected. They are available, installed by the factory, for supply air, return air, or both.

Thru-the-base connections

Thru-the-base connections, included as standard, are necessary to ensure proper connection and seal when routing wire and piping through the rooftop's basepan and curb. These couplings eliminate roof penetration and should be considered for gas lines, main power lines, as well as control power.

Hinged access panels

Allows access to unit's major components with specifically designed hinged access panels. Panels are filter, control box access, and indoor fan motor access.

Cu/Cu (indoor and outdoor) coils

Copper fins and copper tubes are mechanically bonded to copper tubes and copper tube sheets. A polymer strip prevents coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.

E-coated (outdoor and indoor) coils

A flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins.

Coating process shall ensure complete coil encapsulation of tubes, fins and headers.

Pre-coated outdoor coils

A durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments. The coating minimizes galvanic action between dissimilar metals. Coating is applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube.

Condenser coil hail guard

Sleek, louvered panels protect the condenser coil from hail damage, foreign objects, and incidental contact.

Convenience outlet (powered or un-powered)

Reduce service and/or installation costs by including a convenience outlet in your specification. We will install this service feature at our factory. Provides a convenient, 15 amp, 115-v GFCI receptacle with "Wet in Use" cover. The "powered" option allows the installer to power the outlet from the line side of the disconnect or load side as required by code. The "unpowered" option is to be powered from a separate 115/120-v power source.

The unpowered convenience outlet is available as a 15 amp factory-installed option or a 20 amp field-installed accessory.

Non-fused disconnect

This OSHA-compliant, factory-installed, safety switch allows a service technician to locally secure power to the rooftop. When selecting a factory-installed non-fused disconnect, note they are sized for the unit as ordered from the factory. The sizing of these do not accommodate field-installed items such as power exhaust devices, etc. If field installing electric heat with factory-installed nonfused disconnect switch, a single point kit may or may not be required.

Condensate overflow switch

This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. It includes:

- Indicator light — solid red (more than 10 seconds on water contact — compressors disabled), blinking red (sensor disconnected)
- 10-second delay to break — eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping)
- Disables the compressors operation when condensate plug is detected, but still allows fans to run for economizer.

Filter maintenance indicator

When the optional factory-installed filter maintenance indicator is used, a factory-installed differential pressure switch measures pressure drop across the outside air filter and activates a field-supplied dry contact indicator when the pressure differential exceeds the adjustable switch setpoint.

Options and accessories (cont)

Field-installed accessories

Condenser coil hail guard

Sleek, louvered panels protect the condenser coil from hail damage, foreign objects, and incidental contact. This can be purchased as a factory-installed option or as a field-installed accessory.

Differential enthalpy sensor

The differential enthalpy sensor is comprised of an outdoor and return air enthalpy sensors to provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.

Wall or duct mounted CO₂ sensor

The IAQ sensor shall be available in duct or wall mount. The sensor provides demand ventilation indoor air quality (IAQ) control.

4 in. filter rack kit

The 4 in. filter rack accessory kit is designed to hold 4 in. MERV-8 or MERV-13 filters. Filters not included in kit.

Phase monitor protection

The Phase Monitor Control will monitor the sequence of 3-phase electrical system to provide a phase reversal protection; and monitor the 3-phase voltage inputs to provide a phase loss protection for the 3-phase device. It will work on either a Delta or Wye power connection.

Winter start kit

The winter start kit extends the low ambient limit of your rooftop to 25°F (–4°C). The kit bypasses the low pressure switch, preventing nuisance tripping of the low pressure switch. Other low ambient precautions may still be prudent.

Low ambient controller

The low ambient controller is a head pressure controller kit that is designed to maintain the unit's condenser head pressure during periods of low ambient cooling operation. This device should be used as an alternative to economizer free cooling when economizer usage is either not appropriate or desired. The low ambient controller will either cycle the outdoor fan motors or operate them at reduced speed to maintain the unit operation, depending on the model. This controller allows cooling operation down to 0°F (–18°C) ambient conditions.

Roof curb (14 in./356 mm or 24 in./610 mm)

Full perimeter roof curb with exhaust capability provides separate air streams for energy recovery from the exhaust air without supply air contamination.

Filter status indicator accessory

Monitors static pressure across supply and exhaust filters and provides indication when filters become clogged.

Power exhaust

Superior internal building pressure control. This field-installed accessory may eliminate the need for costly, external pressure control fans.

Manual OA damper

Manual outdoor air dampers are an economical way to bring in ventilation air. The dampers are available in 25% and 50% versions.

Motorized two-position damper

The two-position, motorized outdoor air damper admits up to 100% outside air. Using reliable, gear-driven technology, the two-position damper opens to allow ventilation air and closes when the rooftop stops, stopping unwanted infiltration.

Electric heaters

We offer a full-line of field-installed accessory heaters. The heaters are very easy to use, install and are all pre-engineered and certified.

Time Guard II control circuit

This accessory protects your compressor by preventing short-cycling in the event of some other failure, prevents the compressor from restarting for 30 seconds after stopping.

Wi-Fi Stick for EconomizerONE (optional)

The accessory Wi-Fi/WLAN stick can be connected to the EconomizerONE POL224 economizer controller via the USB host interface. The Wi-Fi stick enables a wireless connection to be made between a smartphone and the economizer controller via the Climatix™¹ mobile application for commissioning, troubleshooting, and maintenance operations. The Wi-Fi stick is required to utilize the mobile application.

Climatix™ mobile application

The Climatix™ mobile application offers a best-in-class user interface and a simple step-by-step commissioning workflow using a mobile device. The user interface walks users through the setup of the controller and allows users to view the operating mode and parameters. Users can adjust setpoints, initiate damper tests, and save the final configuration as a favorite to expedite setup in the future.

The application is available on Android™¹ and Apple iOS®¹ platforms. The Wi-Fi stick for the EconomizerONE is required to join the Siemens-WiFi-Stick network and setup the controller on a smartphone.

1. Third-party trademarks and logos are the property of their respective owners.

Options and accessories (cont)

Option and Accessory Weights^a

OPTION / ACCESSORY NAME	RHV UNIT WEIGHT					
	181		240		300	
	lb	kg	lb	kg	lb	kg
Power Exhaust	198	90	198	90	198	90
EconomizerONE	293	133	304	138	304	138
Two-Position Damper	50	23	50	23	50	23
Manual Damper	35	16	35	16	35	16
Electric Heater	85	39	85	39	85	39
Hail Guard (louvered)	90	41	90	41	100	46
Cu/Cu Condenser and Evaporator Coils	305	139	448	204	448	204
Roof Curb (14 in. curb)	240	109	255	116	255	116
Roof Curb (24 in. curb)	340	154	355	161	355	161
CO ₂ Sensor	5	3	5	3	5	3
Optional Indoor Motor ^b	30	14	30	14	0	0
Low Ambient Controller	9	4	9	4	9	4
Winter Start Kit	5	2	5	2	5	2
Return Air Smoke Detector	7	3	7	3	7	3
Supply Air Smoke Detector	7	3	7	3	7	3
Fan Filter Switch	2	1	2	1	2	1
Non-Fused Disconnect	15	7	15	7	15	7
Powered Convenience Outlet	36	16	36	16	36	16
Unpowered Convenience Outlet	4	2	4	2	4	2
Enthalpy Sensor	2	1	2	1	2	1
Differential Enthalpy Sensor	3	2	3	2	3	2

NOTE(S):

a. Where multiple variations are available, the heaviest combination is listed.

b. Add the Optional Indoor Motor weight to the weight of the base unit.

RHV181 Base Unit Dimensions

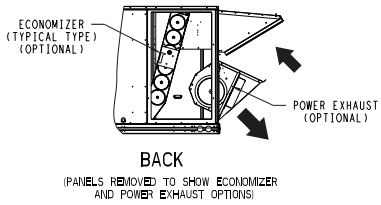
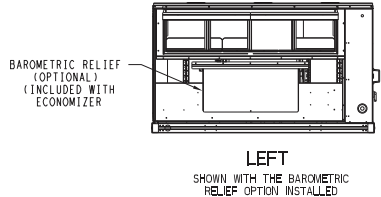
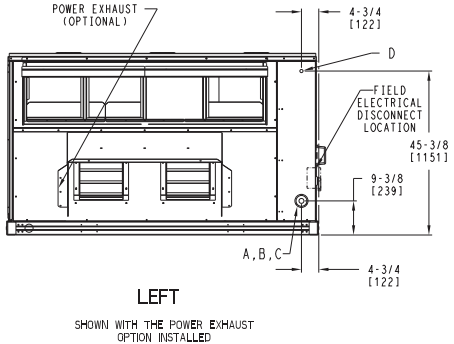
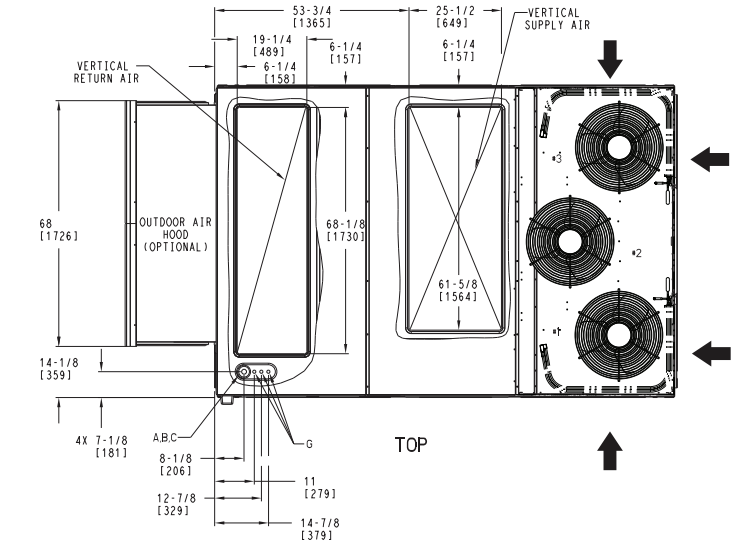
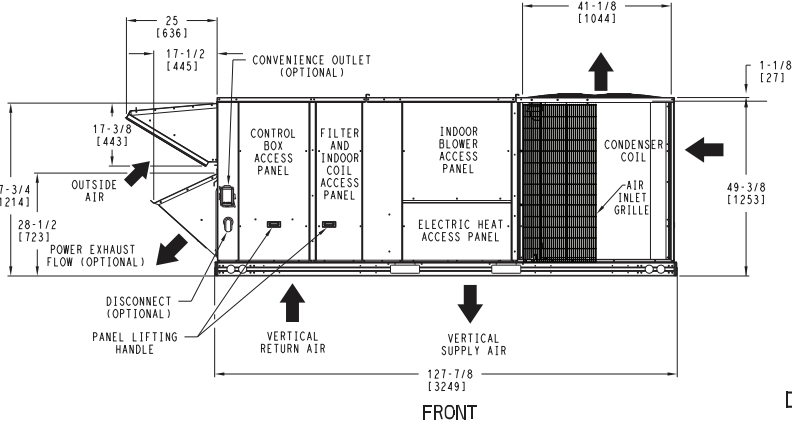
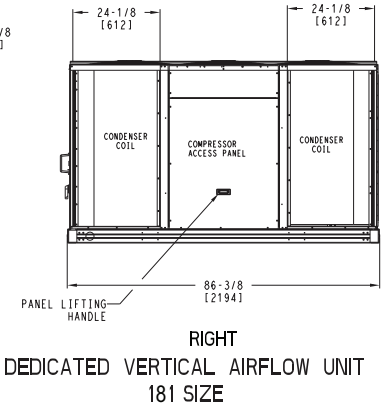


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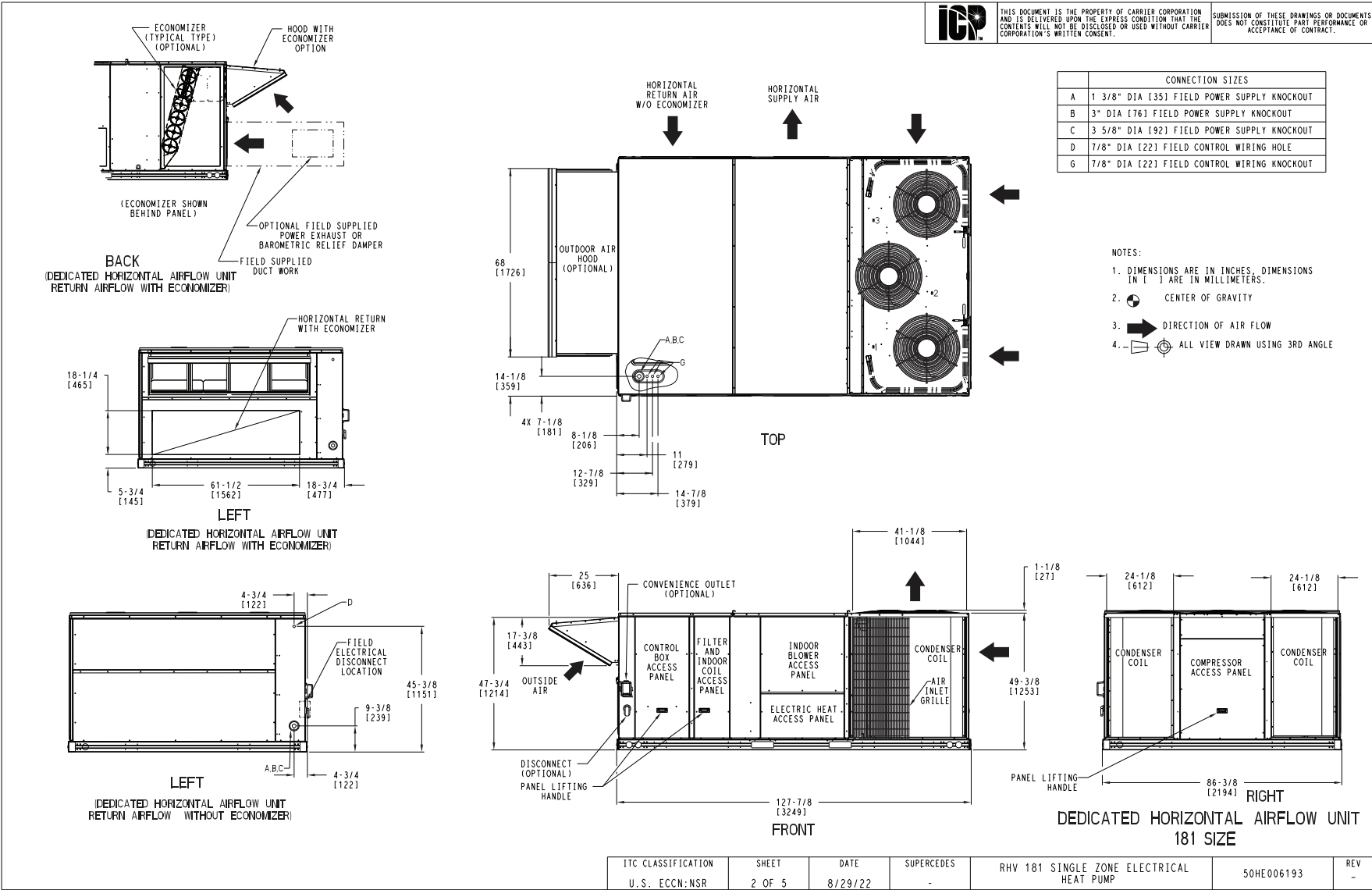
CONNECTION SIZES	
A	1 3/8" DIA [35] FIELD POWER SUPPLY KNOCKOUT
B	3" DIA [76] FIELD POWER SUPPLY KNOCKOUT
C	3 5/8" DIA [92] FIELD POWER SUPPLY KNOCKOUT
D	7/8" DIA [22] FIELD CONTROL WIRING HOLE
G	7/8" DIA [22] FIELD CONTROL WIRING KNOCKOUT

- NOTES:
1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.
 2. CENTER OF GRAVITY
 3. DIRECTION OF AIR FLOW
 4. ALL VIEW DRAWN USING 3RD ANGLE



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	RHV 181 SINGLE ZONE ELECTRICAL	50HE006193	REV
U.S. ECCN:NSR	1 OF 5	8/29/22	-	HEAT PUMP		-

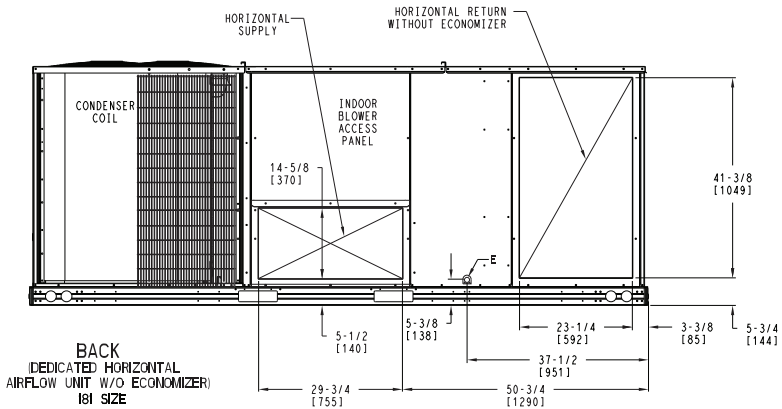
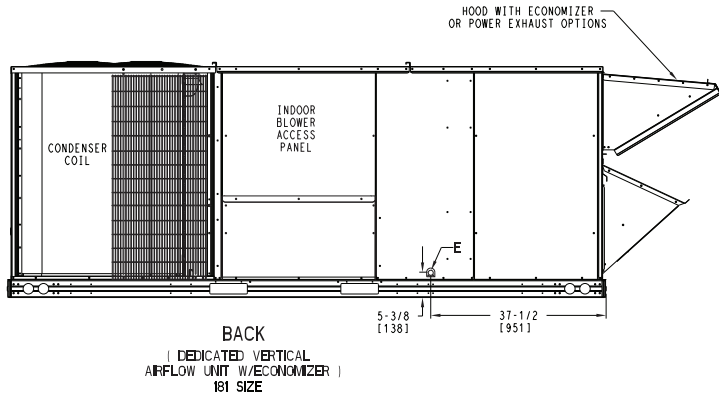
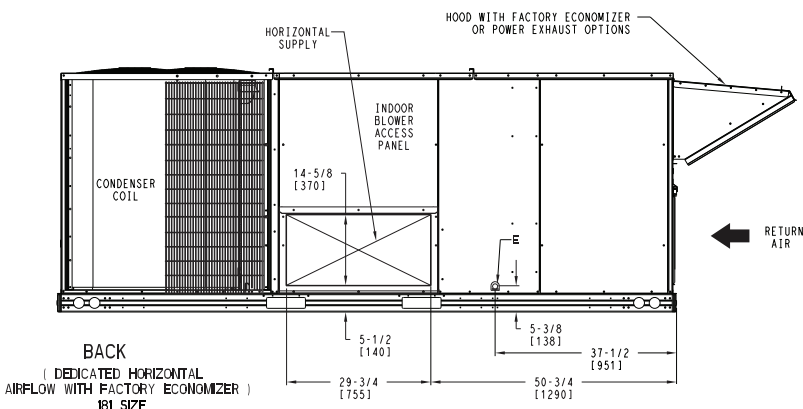
RHV181 Base Unit Dimensions (cont)



RHV181 Base Unit Dimensions (cont)

CONNECTION SIZES	
E	3/4"-14 NPT CONDENSATE DRAIN

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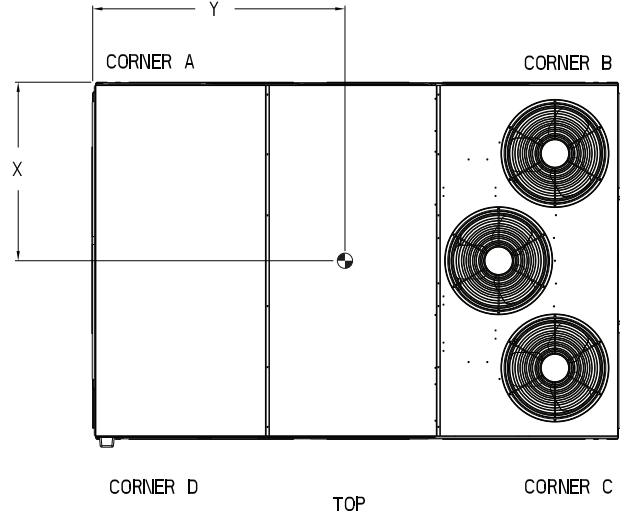
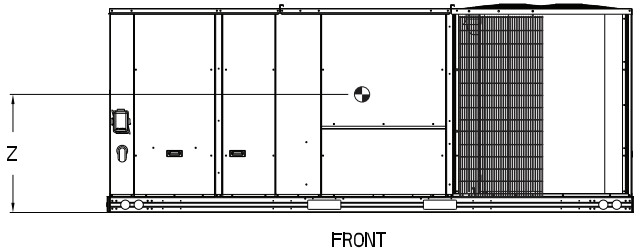
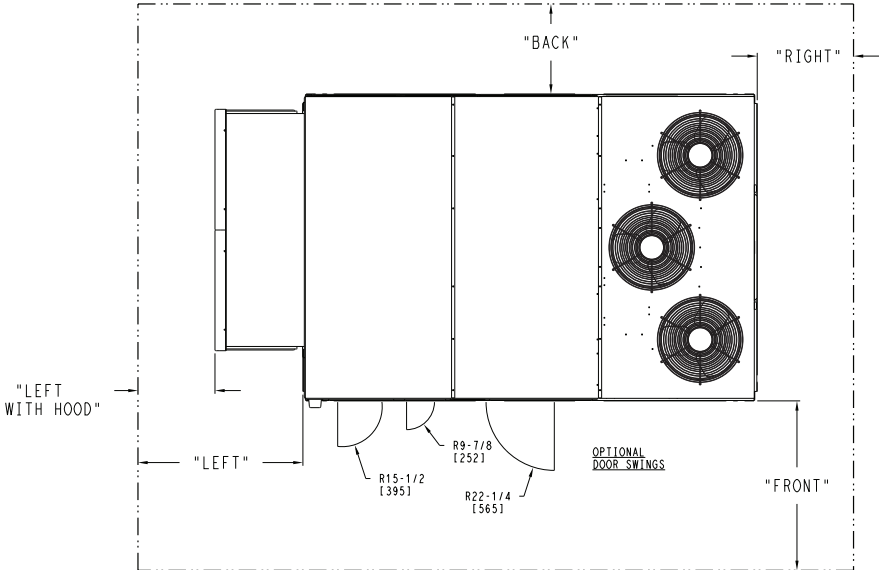
ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 3 OF 5	DATE 8/29/22	SUPERCEDES -	RHV 181 SINGLE ZONE ELECTRICAL HEAT PUMP	50HE006193	REV -
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RHV181 Base Unit Dimensions (cont)

UNIT	STD UNIT WEIGHT *		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
RHV-181	1627	738	357	162	460	209	456	207	354	161	72 [1829]	43 [1092]	16 1/2 [419]

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* STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING. FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.

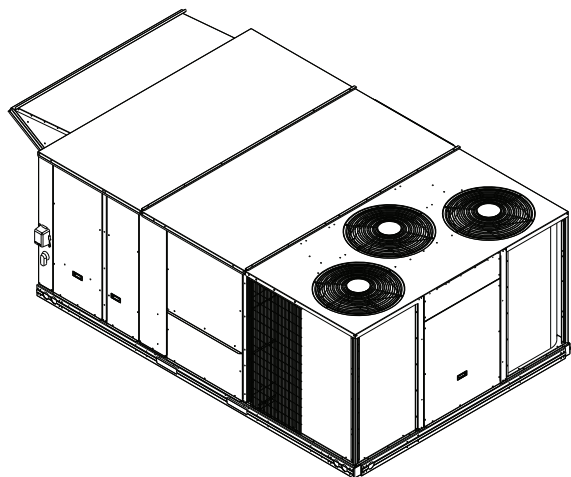
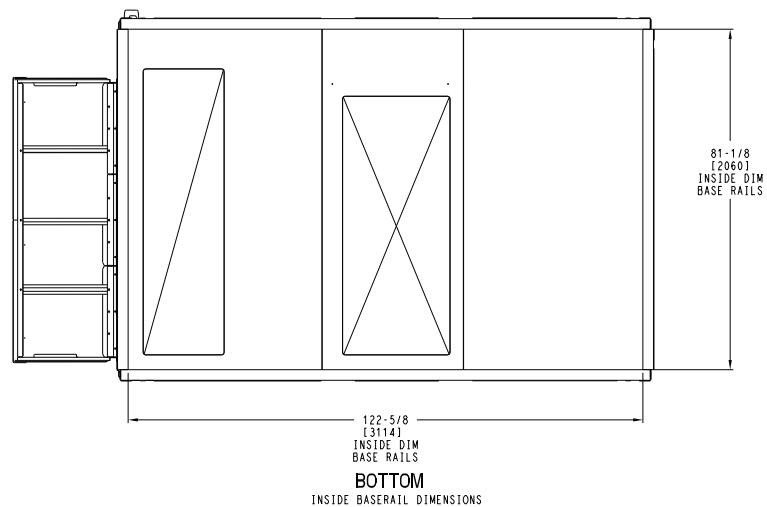
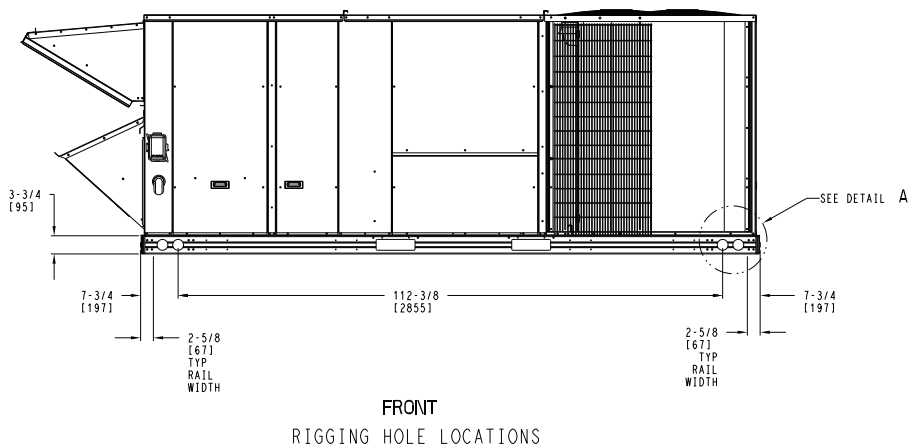
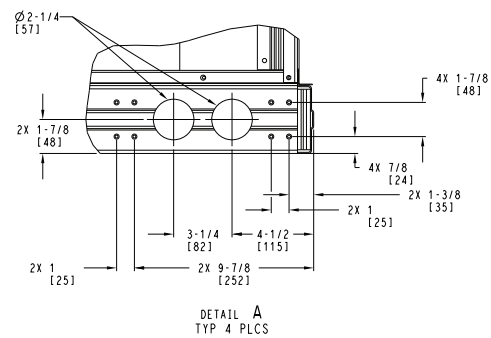


- NOTES:
1. CLEARANCE ABOVE THE UNIT TO BE 72"
 2. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

CLEARANCE			
	SERVICE WITH: CONDUCTIVE BARRIER	SERVICE WITH: NONCONDUCTIVE BARRIER	OPERATING CLEARANCE
SURFACE			
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK	42 [1067mm]	36 [914mm]	18 [457mm]
LEFT WITH HOOD	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

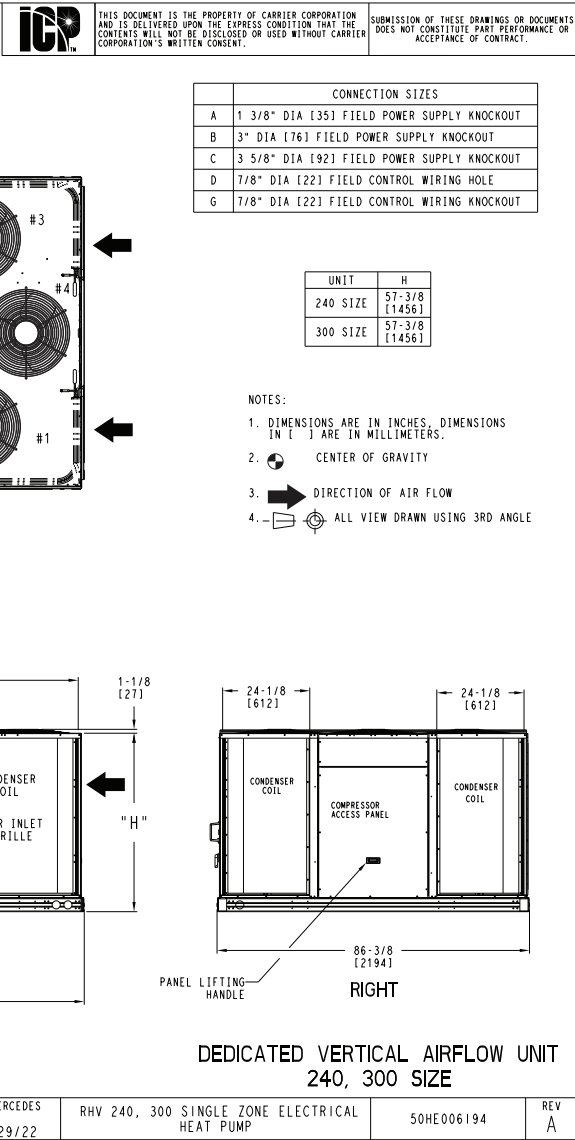
ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 4 OF 5	DATE 8/29/22	SUPERCEDES -	RHV 181 SINGLE ZONE ELECTRICAL HEAT PUMP	50HE006193	REV -
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RHV181 Base Unit Dimensions (cont)

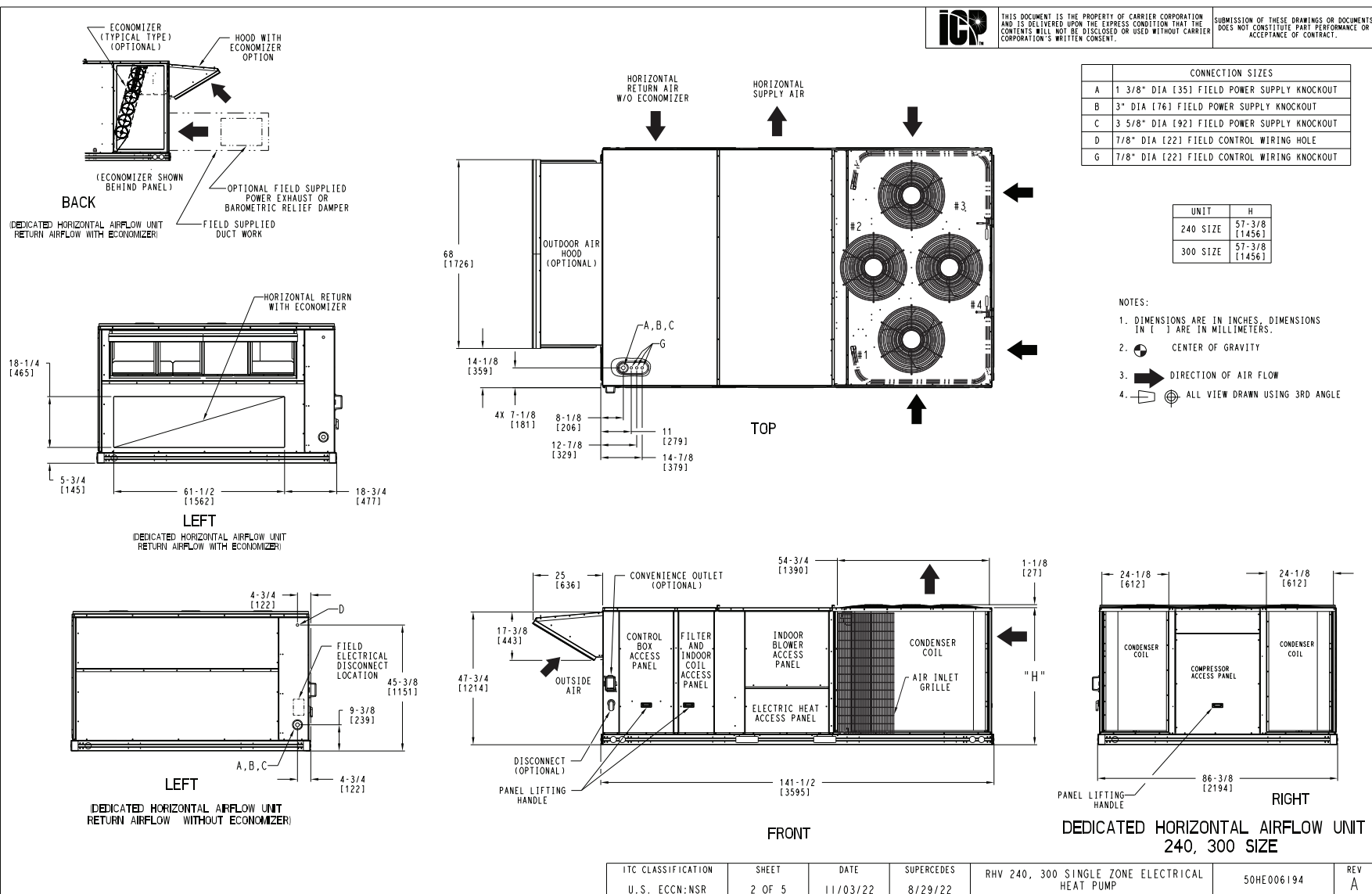


ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	RHV 181 SINGLE ZONE ELECTRICAL HEAT PUMP	50HE006193	REV
U.S. FCCN: NSR	5 OF 5	8/29/22	-			-

RHV240-300 Base Unit Dimensions



RHV240-300 Base Unit Dimensions (cont)



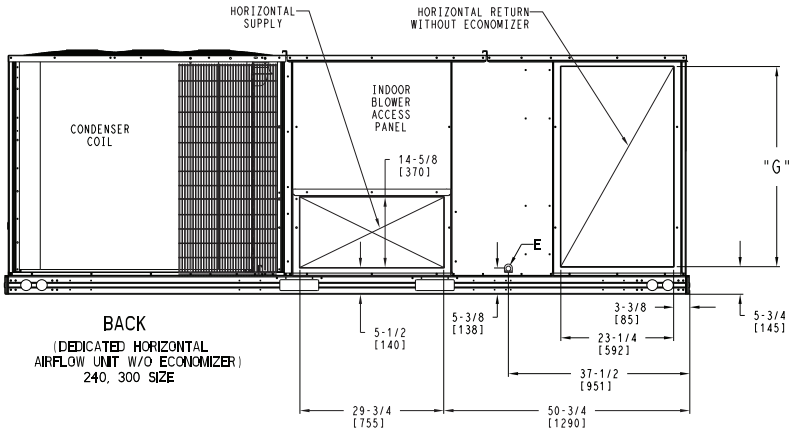
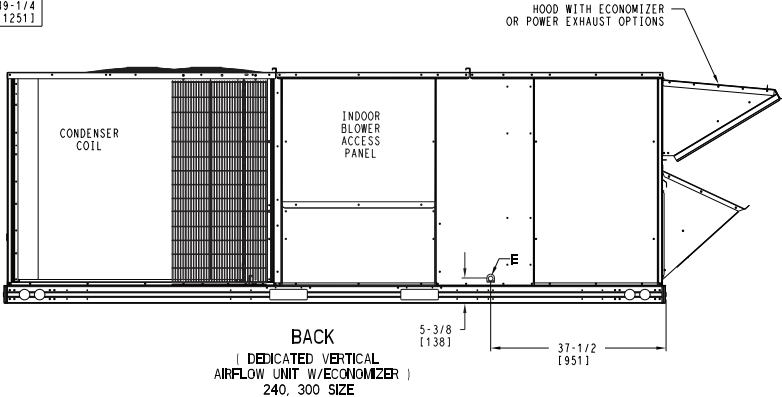
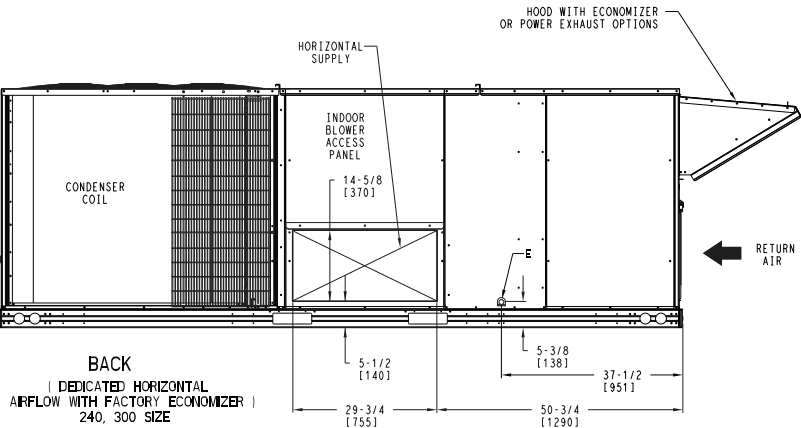
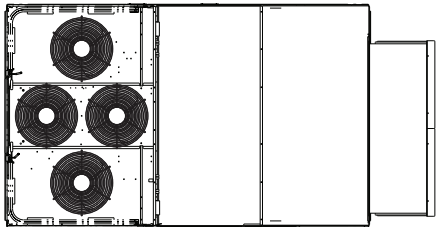
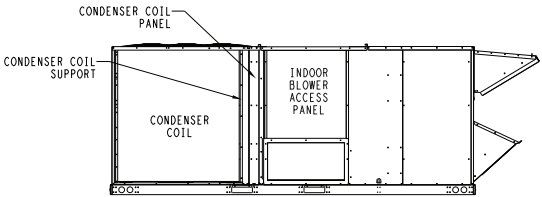
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	RHV 240, 300 SINGLE ZONE ELECTRICAL HEAT PUMP	50HE006194	REV
U.S. ECCN:NSR	2 OF 5	11/03/22	8/29/22			A

RHV240-300 Base Unit Dimensions (cont)

CONNECTION SIZES	
E	3/4"-14 NPT CONDENSATE DRAIN

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UNIT	G
240 SIZE	49-1/4 [1251]
300 SIZE	49-1/4 [1251]



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	RHV 240, 300 SINGLE ZONE ELECTRICAL HEAT PUMP	50HE006194	REV
U.S. ECCN:NSR	3 OF 5	11/03/22	8/29/22			A

RHV240-300 Base Unit Dimensions (cont)

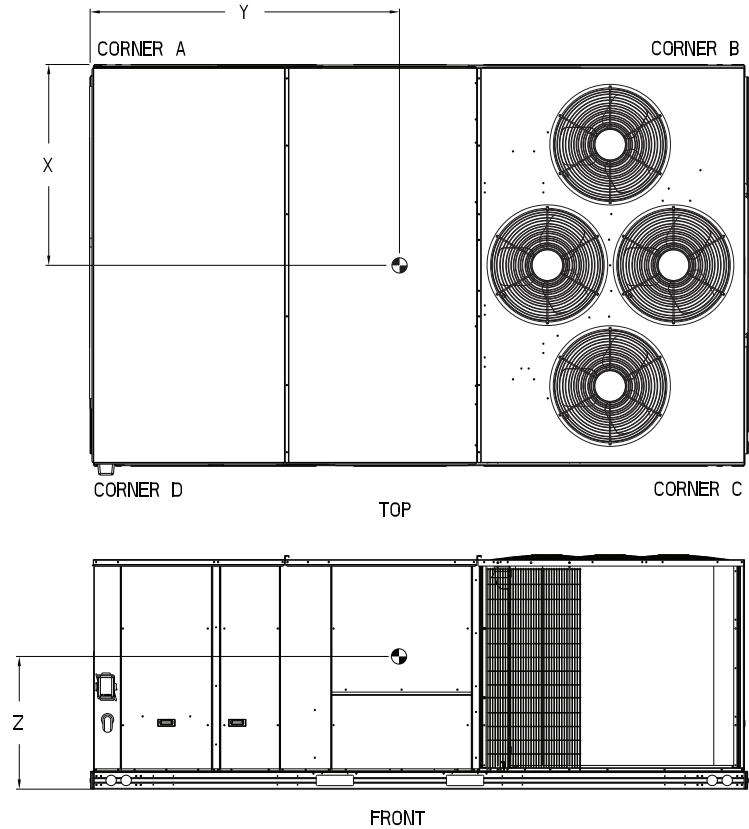
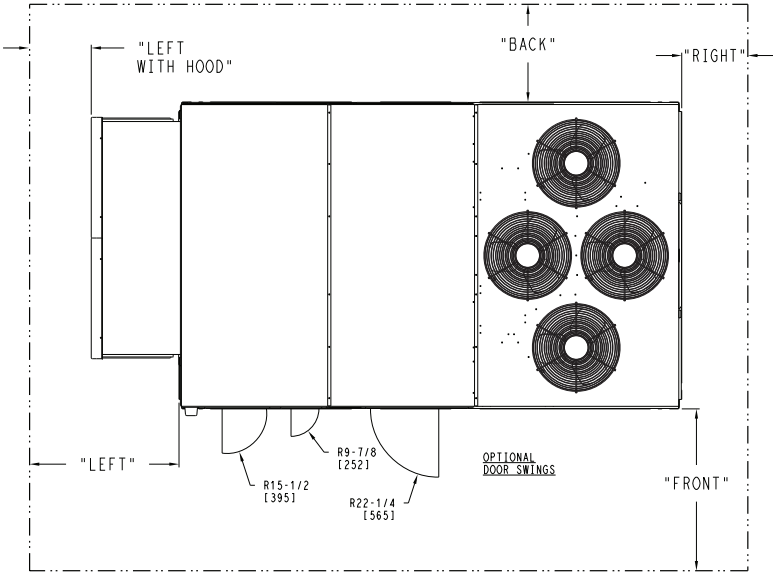
UNIT	STD. UNIT WEIGHT *		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
RHV 240	2057	933	466	211	531	241	565	256	495	225	75 3/8 [1915]	44 1/2 [1130]	19 [483]
RHV 300	2125	964	465	211	556	252	601	273	503	228	77 [1956]	44 7/8 [1140]	19 [483]



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* STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING. FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.



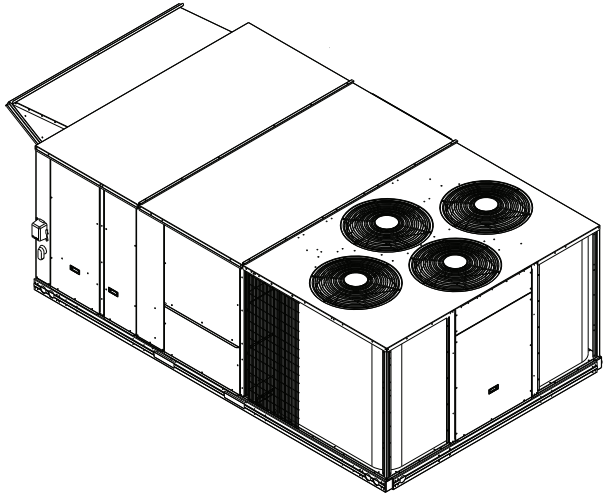
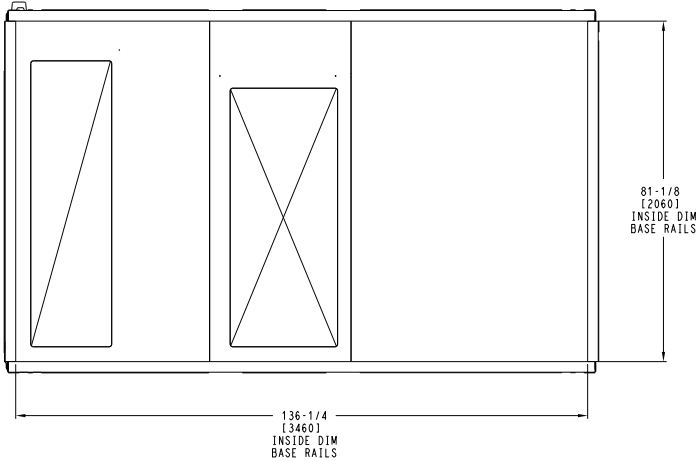
- NOTES:
- 1. CLEARANCE ABOVE THE UNIT TO BE 72"
 - 2. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

CLEARANCE			
	SERVICE WITH CONDUCTIVE BARRIER	SERVICE WITH NONCONDUCTIVE BARRIER	OPERATING CLEARANCE
SURFACE			
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK	42 [1067mm]	36 [914mm]	18 [457mm]
LEFT WITH HOOD	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

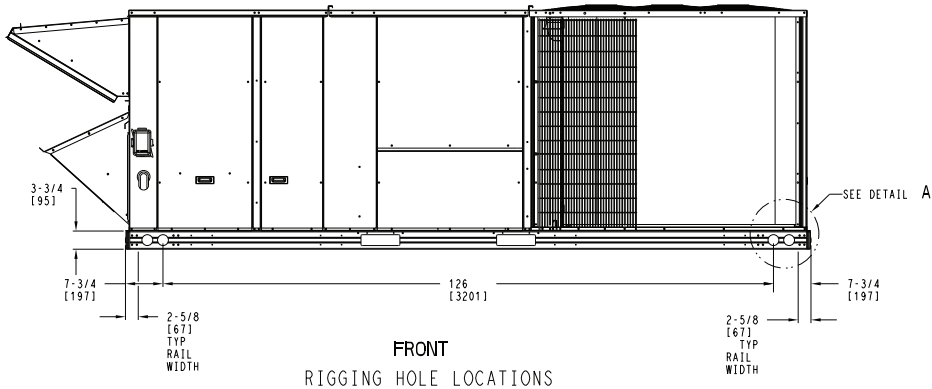
ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 4 OF 5	DATE 11/03/22	SUPERCEDES 8/29/22	RHV 240, 300 SINGLE ZONE ELECTRICAL HEAT PUMP	50HE006194	REV A
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RHV240-300 Base Unit Dimensions (cont)

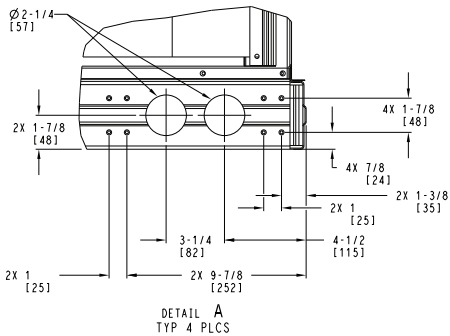
IGP™ THIS DOCUMENT IS THE PROPERTY OF CARRIER CORPORATION AND IS DELIVERED UPON THE EXPRESS CONDITION THAT THE CONTENTS WILL NOT BE DISCLOSED OR USED WITHOUT CARRIER CORPORATION'S WRITTEN CONSENT. SUBMISSION OF THESE DRAWINGS OR DOCUMENTS DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT.



BOTTOM
INSIDE BASERAIL DIMENSIONS



FRONT
RIGGING HOLE LOCATIONS



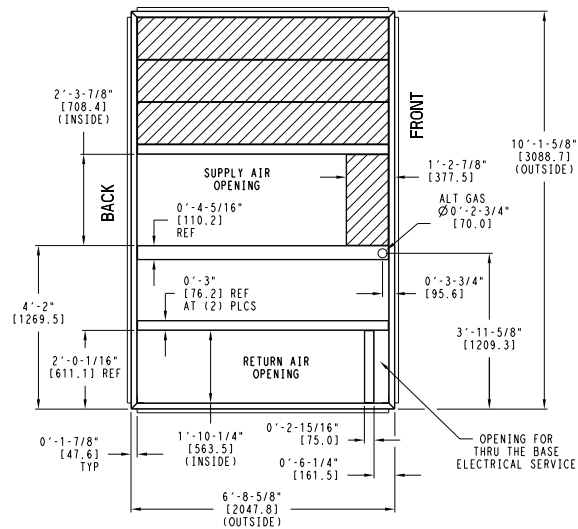
DETAIL A
TYP 4 PLCS

ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 5 OF 5	DATE 11/03/22	SUPERCEDES 8/29/22	RHV 240, 300 SINGLE ZONE ELECTRICAL HEAT PUMP	50HE006194	REV A
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Accessory dimensions

Roof Curb Dimensions — RHV181

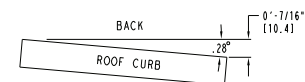
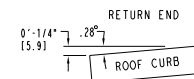
"A"	ROOF CURB ACCESSORY
1'-2" [356.0]	CRRFCURB045A00
2'-0" [610.0]	CRRFCURB046A00



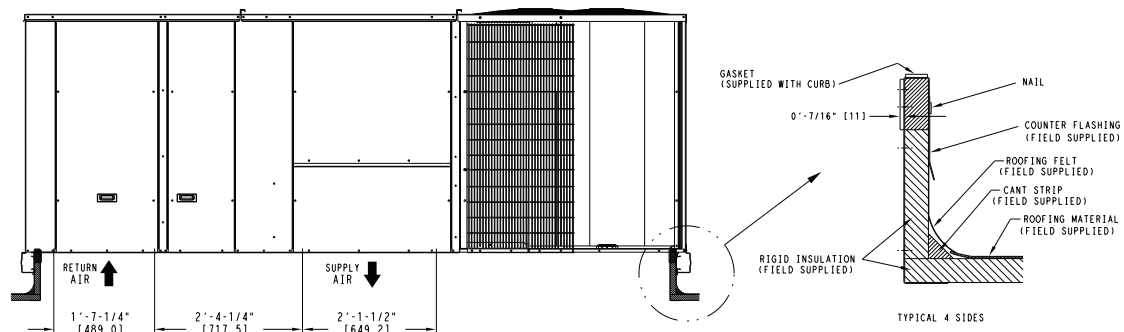
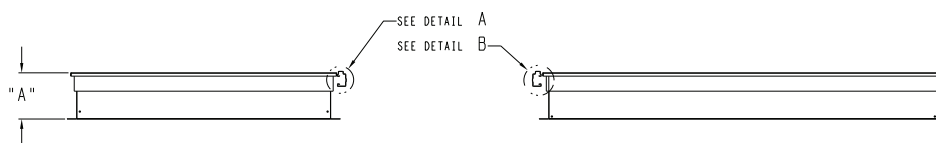
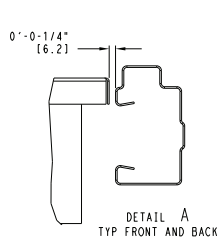
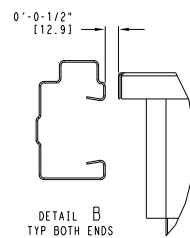
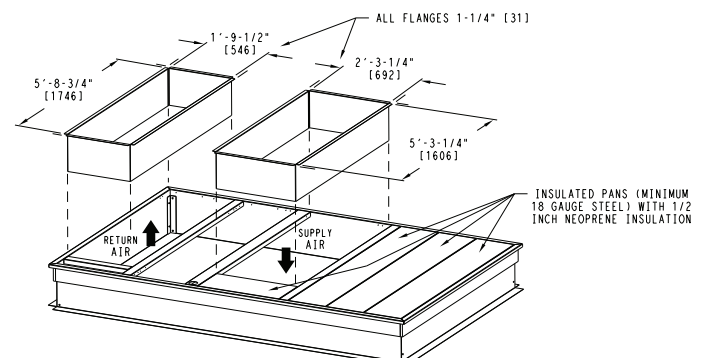
NOTES:

- 1 ROOF CURB ACCESSORY IS SHIPPED UNASSEMBLED.
- 2 DIMENSIONS IN [] ARE IN MILLIMETERS.
- 3 ROOF CURB GALVANIZED STEEL.
- 4 ATTACH DUCTWORK TO CURB (FLANGES ON DUCT REST ON CURB)
- 5 SERVICE CLEARANCE 4 FT ON EACH SIDE

➔ DIRECTION OF AIR FLOW



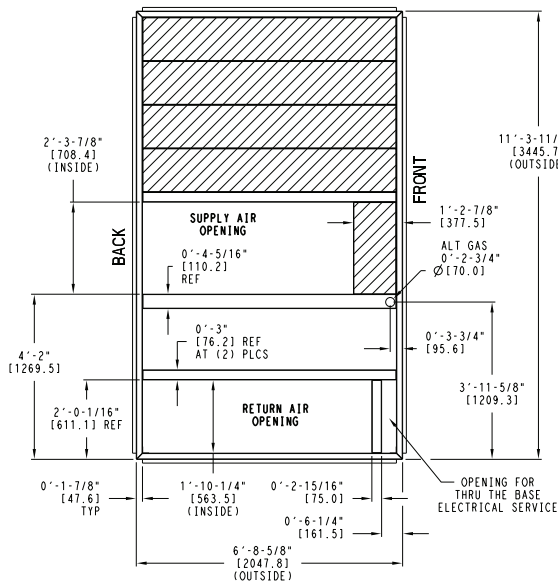
MAX CURB LEVELING TOLERANCES



Accessory dimensions (cont)

Roof Curb Dimensions — RHV240-300

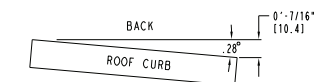
A	ROOF CURB ACCESSORY
1'-2" [356.0]	CRRFCURB047A00
2'-0" [610.0]	CRRFCURB048A00



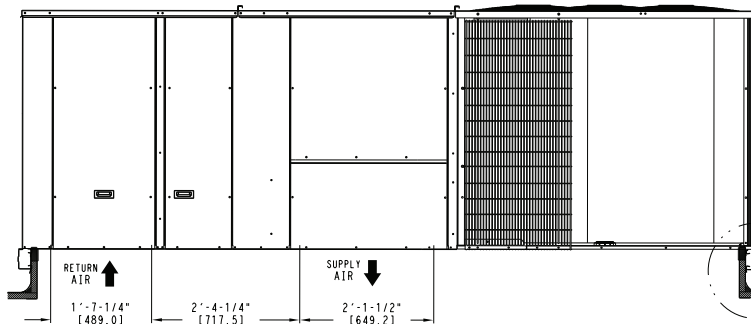
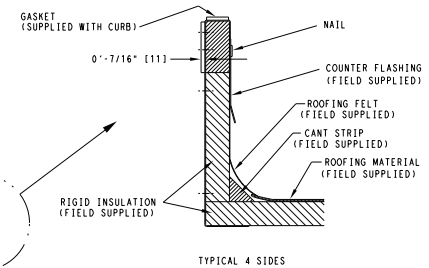
NOTES:

- 1 ROOF CURB ACCESSORY IS SHIPPED UNASSEMBLED.
- 2 DIMENSIONS IN () ARE IN MILLIMETERS.
- 3 ROOF CURB GALVANIZED STEEL.
- 4 ATTACH DUCTWORK TO CURB (FLANGES ON DUCT REST ON CURB)
- 5 SERVICE CLEARANCE 4 FT ON EACH SIDE

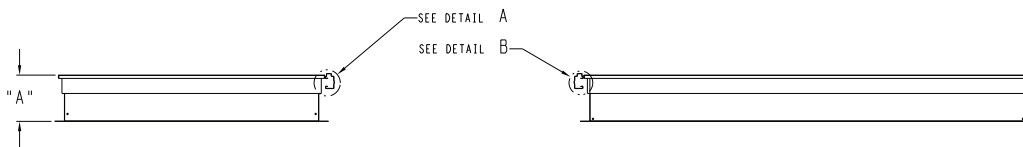
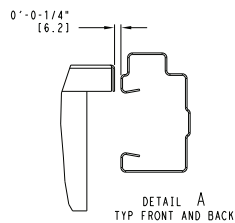
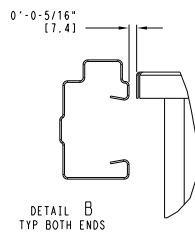
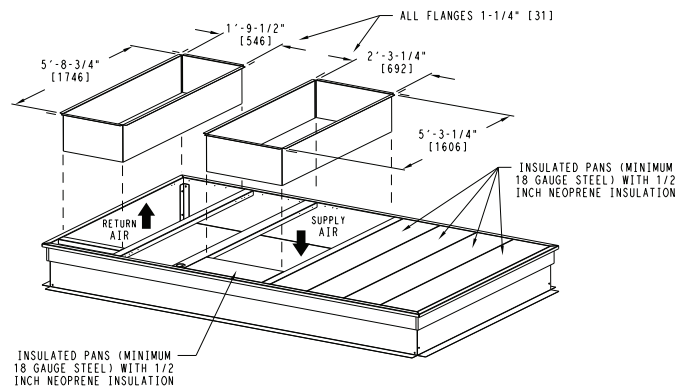
➔ DIRECTION OF AIR FLOW



MAX CURB LEVELING TOLERANCES



TYPICAL 4 SIDES



Performance data

RHV181 Two Stage Cooling Capacities

RHV181				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
4500 cfm	EAT (wb)	58	TC	144.9	144.9	157.4	136.8	136.8	146.8	126.6	126.6	141.0	116.6	116.6	133.8	107.6	107.6	123.9
			SHC	121.1	139.2	157.4	112.7	129.8	146.8	106.4	123.7	141.0	99.5	116.6	133.8	91.3	107.6	123.9
		62	TC	154.0	154.0	154.0	143.9	143.9	143.9	133.2	133.2	135.7	122.6	122.6	129.3	111.6	111.6	122.6
			SHC	108.8	128.5	148.3	102.5	122.3	142.1	96.1	115.9	135.7	89.6	109.5	129.3	83.0	102.8	122.6
		67	TC	170.8	170.8	170.8	159.9	159.9	159.9	148.7	148.7	148.7	137.3	137.3	137.3	125.6	125.6	125.6
			SHC	89.5	108.7	127.9	83.2	102.7	122.1	76.9	96.5	116.1	70.5	90.2	109.9	64.2	84.0	103.8
		72	TC	189.7	189.7	189.7	178.0	178.0	178.0	166.2	166.2	166.2	154.1	154.1	154.1	141.5	141.5	141.5
			SHC	71.7	88.4	105.1	64.8	82.5	100.2	58.2	76.6	94.9	51.7	70.5	89.3	45.1	64.4	83.6
		76	TC	—	205.0	205.0	—	193.7	193.7	—	181.4	181.4	—	168.4	168.4	—	155.0	155.0
			SHC	—	73.7	98.5	—	65.8	90.6	—	58.9	83.6	—	53.3	78.0	—	47.8	72.5
5250 cfm	EAT (wb)	58	TC	153.3	153.3	166.4	142.2	142.2	161.8	133.2	133.2	152.0	123.9	123.9	141.9	114.4	114.4	131.5
			SHC	128.3	147.4	166.4	122.6	142.2	161.8	114.4	133.2	152.0	105.9	123.9	141.9	97.3	114.4	131.5
		62	TC	155.9	155.9	166.7	148.9	148.9	156.3	138.1	138.1	149.6	126.9	126.9	142.3	115.7	115.7	134.1
			SHC	121.0	143.9	166.7	111.1	133.7	156.3	104.5	127.1	149.6	97.6	119.9	142.3	90.2	112.2	134.1
		67	TC	176.2	176.2	176.2	165.0	165.0	165.0	153.4	153.4	153.4	141.6	141.6	141.6	129.4	129.4	129.4
			SHC	95.4	117.6	139.9	89.1	111.5	133.9	82.7	105.2	127.7	76.2	98.9	121.5	69.7	92.5	115.2
		72	TC	195.3	195.3	195.3	183.4	183.4	183.4	171.0	171.0	171.0	158.3	158.3	158.3	145.4	145.4	145.4
			SHC	73.8	94.6	115.4	67.3	88.6	109.9	60.8	82.5	104.2	54.3	76.3	98.4	47.7	70.0	92.3
		76	TC	—	212.2	212.2	—	199.4	199.4	—	186.1	186.1	—	172.6	172.6	—	159.0	159.0
			SHC	—	74.3	103.2	—	68.5	97.4	—	63.3	92.1	—	57.4	86.2	—	51.3	70.8
6000 cfm	EAT (wb)	58	TC	158.1	158.1	179.3	149.1	149.1	169.5	139.7	139.7	159.2	129.9	129.9	148.6	120.0	120.0	137.7
			SHC	136.9	158.1	179.3	128.7	149.1	169.5	120.1	139.7	159.2	111.3	129.9	148.6	102.2	120.0	137.7
		62	TC	163.9	163.9	175.8	152.9	152.9	168.8	142.0	142.0	161.4	132.7	132.7	150.7	122.4	122.4	139.4
			SHC	125.5	150.6	175.8	118.7	143.8	168.8	111.7	136.6	161.4	103.4	127.1	150.7	94.5	117.0	139.4
		67	TC	180.5	180.5	180.5	169.0	169.0	169.0	157.0	157.0	157.0	144.8	144.8	144.8	132.3	132.3	132.3
			SHC	100.7	125.8	150.8	94.4	119.6	144.8	88.0	113.3	138.6	81.4	106.8	132.2	74.8	100.3	125.7
		72	TC	199.7	199.7	199.7	187.3	187.3	187.3	174.6	174.6	174.6	161.6	161.6	161.6	148.3	148.3	148.3
			SHC	76.2	100.2	124.2	69.7	94.1	118.5	63.2	87.9	112.6	56.6	81.5	106.5	50.0	75.2	100.3
		76	TC	—	216.3	216.3	—	203.3	203.3	—	189.8	189.8	—	176.0	176.0	—	162.2	162.2
			SHC	—	78.3	111.3	—	72.6	105.6	—	66.7	86.8	—	60.5	82.6	—	54.5	77.9
6750 cfm	EAT (wb)	58	TC	164.4	164.4	186.3	155.0	155.0	176.0	145.2	145.2	165.3	135.1	135.1	154.3	124.8	124.8	143.1
			SHC	142.5	164.4	186.3	133.9	155.0	176.0	125.0	145.2	165.3	115.8	135.1	154.3	106.5	124.8	143.1
		62	TC	167.5	167.5	187.2	159.2	159.2	169.1	147.9	147.9	165.5	137.7	137.7	155.9	126.9	126.9	143.2
			SHC	132.4	159.8	187.2	120.4	144.8	169.1	115.3	140.4	165.5	107.3	131.6	155.9	97.6	120.4	143.2
		67	TC	184.1	184.1	184.1	161.3	161.3	170.0	159.9	159.9	159.9	147.4	147.4	147.4	134.7	134.7	135.7
			SHC	105.8	133.6	161.4	109.9	140.0	170.0	92.9	120.9	148.8	86.3	114.3	142.3	79.6	107.7	135.7
		72	TC	203.2	203.2	203.2	190.6	190.6	190.6	177.5	177.5	177.5	164.2	164.2	164.2	150.7	150.7	150.7
			SHC	78.4	105.4	132.4	72.0	99.2	126.5	65.4	92.9	120.4	58.8	86.5	114.3	52.1	80.1	108.0
		76	TC	—	219.9	219.9	—	206.5	206.5	—	192.8	192.8	—	179.0	179.0	—	164.7	164.7
			SHC	—	81.8	118.9	—	75.8	98.6	—	69.7	94.3	—	63.6	89.4	—	57.3	83.9
7500 cfm	EAT (wb)	58	TC	169.7	169.7	192.2	160.0	160.0	181.6	149.8	149.8	170.6	139.5	139.5	159.2	128.8	128.8	147.6
			SHC	147.2	169.7	192.2	138.3	160.0	181.6	129.1	149.8	170.6	119.7	139.5	159.2	110.1	128.8	147.6
		62	TC	172.7	172.7	194.8	163.2	163.2	183.6	153.2	153.2	169.9	142.1	142.1	158.8	128.9	128.9	154.0
			SHC	137.6	166.2	194.8	129.0	156.3	183.6	118.9	144.4	169.9	110.0	134.4	158.8	103.9	128.9	154.0
		67	TC	187.0	187.0	187.0	174.8	174.8	174.8	155.0	155.0	173.8	150.0	150.0	152.3	136.6	136.6	145.1
			SHC	110.7	141.0	171.4	104.2	134.6	165.1	110.2	142.0	173.8	91.1	121.7	152.3	84.1	114.6	145.1
		72	TC	206.1	206.1	206.1	193.2	193.2	193.2	179.9	179.9	179.9	166.4	166.4	166.4	152.7	152.7	152.7
			SHC	80.5	110.3	140.0	74.1	104.1	134.1	67.5	97.7	127.9	60.8	91.2	121.6	54.2	84.8	115.4
		76	TC	—	222.9	222.9	—	209.3	209.3	—	195.2	195.2	—	181.2	181.2	—	166.6	166.6
			SHC	—	84.8	110.3	—	78.6	105.4	—	72.5	100.5	—	66.4	95.3	—	60.0	89.6

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EAT (db)	Entering Air Temperature (dry bulb)
EAT (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 5.

Performance data (cont)

RHV181 Single Stage Cooling Capacities

RHV181				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
2700 cfm	EAT (wb)	58	TC	91.8	91.8	101.9	85.4	85.4	95.1	78.0	78.0	89.8	71.3	71.3	82.8	64.5	64.5	75.4
			SHC	77.0	89.4	101.9	71.1	83.1	95.1	65.9	77.9	89.8	59.9	71.3	82.8	53.6	64.5	75.4
		62	TC	99.8	99.8	99.8	92.2	92.2	92.2	84.6	84.6	84.6	76.3	76.3	78.2	68.1	68.1	73.0
			SHC	68.0	80.7	93.4	62.9	75.7	88.4	57.9	70.7	83.4	52.7	65.4	78.2	47.4	60.2	73.0
		67	TC	111.8	111.8	111.8	103.7	103.7	103.7	95.3	95.3	95.3	86.8	86.8	86.8	78.1	78.1	78.1
			SHC	56.0	68.3	80.7	50.9	63.4	75.8	45.7	58.3	70.9	40.6	53.2	65.8	35.4	48.1	60.8
		72	TC	125.2	125.2	125.2	116.6	116.6	116.6	107.8	107.8	107.8	98.7	98.7	98.7	89.5	89.5	89.5
			SHC	45.2	55.8	66.5	39.6	50.9	62.3	34.2	46.0	57.7	28.9	40.9	53.0	23.5	35.8	48.1
		76	TC	—	136.3	136.3	—	127.5	127.5	—	118.7	118.7	—	109.3	109.3	—	99.4	99.4
			SHC	—	46.6	61.4	—	41.5	56.4	—	35.5	50.4	—	30.2	45.0	—	25.5	40.4
3150 cfm	EAT (wb)	58	TC	97.7	97.7	109.5	90.5	90.5	103.6	83.7	83.7	96.3	76.6	76.6	88.7	69.4	69.4	80.9
			SHC	82.9	96.2	109.5	77.3	90.5	103.6	71.1	83.7	96.3	64.6	76.6	88.7	58.0	69.4	80.9
		62	TC	104.0	104.0	104.0	96.1	96.1	98.3	87.9	87.9	93.0	79.6	79.6	87.7	71.0	71.0	82.0
			SHC	74.3	88.9	103.5	69.1	83.7	98.3	63.8	78.4	93.0	58.5	73.1	87.7	53.0	67.5	82.0
		67	TC	116.0	116.0	116.0	107.5	107.5	107.5	98.9	98.9	98.9	90.0	90.0	90.0	81.0	81.0	81.0
			SHC	60.2	74.5	88.9	55.0	69.5	83.9	49.8	64.3	78.8	44.5	59.1	73.7	39.3	53.9	68.5
		72	TC	129.6	129.6	129.6	120.7	120.7	120.7	111.5	111.5	111.5	102.1	102.1	102.1	92.5	92.5	92.5
			SHC	46.8	60.1	73.5	41.5	55.2	68.9	36.1	50.1	64.0	30.8	44.9	59.1	25.4	39.7	54.0
		76	TC	—	141.7	141.7	—	132.5	132.5	—	122.6	122.6	—	112.6	112.6	—	102.4	102.4
			SHC	—	48.1	65.4	—	42.6	60.0	—	38.0	55.3	—	33.1	50.4	—	28.0	40.2
3600 cfm	EAT (wb)	58	TC	102.5	102.5	116.7	95.6	95.6	109.3	88.5	88.5	101.6	81.1	81.1	93.6	73.6	73.6	85.5
			SHC	88.3	102.5	116.7	81.9	95.6	109.3	75.3	88.5	101.6	68.6	81.1	93.6	61.7	73.6	85.5
		62	TC	107.3	107.3	112.8	99.2	99.2	107.4	90.8	90.8	101.7	82.4	82.4	95.9	74.3	74.3	87.8
			SHC	79.9	96.4	112.8	74.7	91.0	107.4	69.2	85.5	101.7	63.6	79.7	95.9	57.0	72.4	87.8
		67	TC	119.3	119.3	119.3	110.7	110.7	110.7	101.8	101.8	101.8	92.6	92.6	92.6	83.4	83.4	83.4
			SHC	64.1	80.4	96.6	58.9	75.2	91.5	53.6	70.0	86.4	48.3	64.7	81.1	42.9	59.4	75.9
		72	TC	133.1	133.1	133.1	123.9	123.9	123.9	114.4	114.4	114.4	104.7	104.7	104.7	94.8	94.8	94.8
			SHC	48.6	64.1	79.7	43.2	59.0	74.8	37.9	53.9	69.9	32.5	48.6	64.8	27.1	43.3	59.6
		76	TC	—	145.4	145.4	—	135.6	135.6	—	125.5	125.5	—	115.3	115.3	—	105.0	105.0
			SHC	—	50.2	70.0	—	45.5	65.3	—	40.5	60.3	—	35.4	49.5	—	30.3	45.3
4050 cfm	EAT (wb)	58	TC	107.1	107.1	121.9	100.0	100.0	114.1	92.6	92.6	106.2	84.9	84.9	97.9	77.1	77.1	89.4
			SHC	92.4	107.1	121.9	85.8	100.0	114.1	79.0	92.6	106.2	72.0	84.9	97.9	64.8	77.1	89.4
		62	TC	109.8	109.8	120.9	101.9	101.9	115.5	93.6	93.6	108.8	85.2	85.2	101.9	77.7	77.7	92.2
			SHC	84.9	102.9	120.9	79.6	97.6	115.5	73.6	91.2	108.8	67.5	84.7	101.9	60.1	76.2	92.2
		67	TC	122.1	122.1	122.1	113.2	113.2	113.2	104.1	104.1	104.1	94.7	94.7	94.7	85.3	85.3	85.3
			SHC	67.7	85.9	104.0	62.5	80.6	98.8	57.2	75.4	93.6	51.8	70.0	88.2	46.4	64.7	83.0
		72	TC	135.9	135.9	135.9	126.5	126.5	126.5	116.8	116.8	116.8	106.9	106.9	106.9	96.8	96.8	96.8
			SHC	50.2	67.8	85.4	44.9	62.6	80.4	39.6	57.4	75.3	34.2	52.2	70.2	28.7	46.8	65.0
		76	TC	—	148.1	148.1	—	138.2	138.2	—	127.9	127.9	—	117.6	117.6	—	106.9	106.9
			SHC	—	52.8	75.1	—	47.9	62.4	—	42.8	58.6	—	37.6	54.3	—	32.3	49.6
4500 cfm	EAT (wb)	58	TC	111.1	111.1	126.3	103.8	103.8	118.4	96.1	96.1	110.0	88.2	88.2	101.6	80.2	80.2	92.9
			SHC	96.0	111.1	126.3	89.2	103.8	118.4	82.1	96.1	110.0	74.9	88.2	101.6	67.6	80.2	92.9
		62	TC	112.7	112.7	128.6	105.0	105.0	120.8	97.3	97.3	112.3	89.2	89.2	104.2	80.3	80.3	97.2
			SHC	89.7	109.1	128.6	83.3	102.1	120.8	76.4	94.3	112.3	69.7	87.0	104.2	63.4	80.3	97.2
		67	TC	124.3	124.3	124.3	115.3	115.3	115.3	106.0	106.0	106.0	96.4	96.4	96.4	86.6	86.6	89.4
			SHC	71.2	91.1	111.0	65.9	85.8	105.8	60.5	80.5	100.4	55.1	75.1	95.0	49.5	69.5	89.4
		72	TC	138.2	138.2	138.2	128.6	128.6	128.6	118.7	118.7	118.7	108.6	108.6	108.6	98.3	98.3	98.3
			SHC	51.8	71.3	90.7	46.5	66.1	85.7	41.1	60.8	80.5	35.7	55.5	75.3	30.2	50.1	70.0
		76	TC	—	150.5	150.5	—	140.4	140.4	—	130.0	130.0	—	119.3	119.3	—	108.5	108.5
			SHC	—	55.0	71.5	—	49.9	67.5	—	44.8	63.1	—	39.5	58.4	—	34.2	53.4

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EAT (db)	Entering Air Temperature (dry bulb)
EAT (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 5.

Performance data (cont)

RHV240 Two Stage Cooling Capacities

RHV240				AMBIENT TEMPERATURE (°F)														
				85			95			105			115			125		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85	75	80	85
6000 cfm	EAT (wb)	58	TC	205.6	205.6	233.9	193.7	193.7	221.0	181.2	181.2	207.3	168.1	168.1	193.1	154.2	154.2	177.9
			SHC	177.3	205.6	233.9	166.5	193.7	221.0	155.0	181.2	207.3	143.1	168.1	193.1	130.5	154.2	177.9
		62	TC	217.8	217.8	222.3	203.5	203.5	213.4	188.3	188.3	204.1	172.4	172.4	194.4	155.9	155.9	184.2
			SHC	159.7	191.0	222.3	150.7	182.0	213.4	141.5	172.8	204.1	132.0	163.2	194.4	122.0	153.1	184.2
		67	TC	242.0	242.0	242.0	226.8	226.8	226.8	210.6	210.6	210.6	193.8	193.8	193.8	176.1	176.1	176.1
			SHC	130.2	161.6	193.0	121.3	152.7	184.1	112.1	143.5	174.9	102.7	134.1	165.5	93.1	124.4	155.8
		72	TC	268.3	268.3	268.3	252.0	252.0	252.0	234.9	234.9	234.9	216.9	216.9	216.9	198.0	198.0	198.0
			SHC	100.2	131.5	162.8	91.4	122.6	153.9	82.2	113.5	144.8	72.9	104.1	135.4	63.2	94.5	125.7
		76	TC	—	290.5	290.5	—	273.4	273.4	—	255.3	255.3	—	236.4	236.4	—	—	—
			SHC	—	106.9	137.1	—	98.1	128.5	—	89.0	119.5	—	79.6	110.2	—	—	—
7000 cfm	EAT (wb)	58	TC	218.8	218.8	248.6	206.2	206.2	234.9	192.9	192.9	220.4	178.9	178.9	205.1	164.5	164.5	189.4
			SHC	189.0	218.8	248.6	177.5	206.2	234.9	165.5	192.9	220.4	152.7	178.9	205.1	139.6	164.5	189.4
		62	TC	225.7	225.7	246.3	210.7	210.7	236.9	195.0	195.0	226.9	181.8	181.8	207.7	168.8	168.8	185.7
			SHC	174.1	210.2	246.3	164.9	200.9	236.9	155.2	191.1	226.9	141.3	174.5	207.7	125.9	155.8	185.7
		67	TC	250.0	250.0	250.0	234.1	234.1	234.1	217.3	217.3	217.3	199.8	199.8	199.8	181.4	181.4	181.4
			SHC	139.6	175.9	212.2	130.6	166.8	203.1	121.3	157.5	193.7	111.7	147.9	184.1	101.9	138.1	174.3
		72	TC	276.5	276.5	276.5	259.6	259.6	259.6	241.7	241.7	241.7	223.0	223.0	223.0	203.4	203.4	203.4
			SHC	104.4	140.5	176.7	95.4	131.5	167.6	86.1	122.2	158.4	76.6	112.7	148.8	66.9	103.0	139.1
		76	TC	—	299.0	299.0	—	281.1	281.1	—	262.3	262.3	—	242.7	242.7	—	—	—
			SHC	—	111.7	146.9	—	102.7	138.0	—	93.5	128.8	—	84.0	119.4	—	—	—
8000 cfm	EAT (wb)	58	TC	229.8	229.8	260.8	216.6	216.6	246.4	202.7	202.7	231.3	188.1	188.1	215.3	172.8	172.8	198.6
			SHC	198.8	229.8	260.8	186.7	216.6	246.4	174.1	202.7	231.3	160.9	188.1	215.3	147.0	172.8	198.6
		62	TC	232.0	232.0	268.1	220.6	220.6	245.6	202.9	202.9	241.1	188.3	188.3	224.7	172.6	172.6	207.0
			SHC	187.2	227.7	268.1	171.9	208.7	245.6	164.7	202.9	241.1	151.9	188.3	224.7	138.2	172.6	207.0
		67	TC	256.1	256.1	256.1	239.7	239.7	239.7	222.3	222.3	222.3	204.3	204.3	204.3	185.4	185.4	192.0
			SHC	148.4	189.4	230.4	139.3	180.2	221.2	129.8	170.8	211.7	120.2	161.1	202.0	110.3	151.2	192.0
		72	TC	282.8	282.8	282.8	265.3	265.3	265.3	246.9	246.9	246.9	227.7	227.7	227.7	207.5	207.5	207.5
			SHC	108.1	148.9	189.8	99.0	139.8	180.6	89.6	130.4	171.2	80.0	120.8	161.6	70.1	110.9	151.7
		76	TC	—	305.3	305.3	—	286.9	286.9	—	267.6	267.6	—	247.4	247.4	—	—	—
			SHC	—	115.9	155.8	—	106.8	146.7	—	97.5	137.5	—	87.9	128.0	—	—	—
9000 cfm	EAT (wb)	58	TC	239.2	239.2	271.2	225.4	225.4	256.2	211.4	211.4	241.0	195.8	195.8	223.9	179.8	179.8	206.4
			SHC	207.1	239.2	271.2	194.5	225.4	256.2	181.8	211.4	241.0	167.7	195.8	223.9	153.2	179.8	206.4
		62	TC	242.8	242.8	271.2	225.6	225.6	266.8	211.1	211.1	250.5	196.0	196.0	233.6	180.0	180.0	215.5
			SHC	191.4	231.3	271.2	184.4	225.6	266.8	171.7	211.1	250.5	158.5	196.0	233.6	144.5	180.0	215.5
		67	TC	261.0	261.0	261.0	244.1	244.1	244.1	226.3	226.3	229.1	207.9	207.9	219.3	188.5	188.5	209.2
			SHC	156.7	202.4	248.0	147.5	193.1	238.7	138.0	183.6	229.1	128.3	173.8	219.3	118.4	163.8	209.2
		72	TC	287.7	287.7	287.7	269.8	269.8	269.8	251.0	251.0	251.0	231.2	231.2	231.2	210.6	210.6	210.6
			SHC	111.3	156.8	202.2	102.2	147.6	193.1	92.7	138.2	183.6	83.0	128.5	173.9	73.1	118.5	163.9
		76	TC	—	310.4	310.4	—	291.5	291.5	—	271.7	271.7	—	251.1	251.1	—	—	—
			SHC	—	119.8	164.2	—	110.6	155.1	—	101.1	145.7	—	91.5	136.0	—	—	—
10000 cfm	EAT (wb)	58	TC	247.1	247.1	280.1	232.9	232.9	264.5	217.9	217.9	248.2	202.3	202.3	231.1	185.7	185.7	212.9
			SHC	214.1	247.1	280.1	201.2	232.9	264.5	187.6	217.9	248.2	173.4	202.3	231.1	158.5	185.7	212.9
		62	TC	247.4	247.4	291.4	233.1	233.1	275.5	218.2	218.2	258.7	202.5	202.5	241.0	185.9	185.9	222.3
			SHC	203.3	247.4	291.4	190.8	233.1	275.5	177.7	218.2	258.7	164.0	202.5	241.0	149.5	185.9	222.3
		67	TC	264.9	264.9	265.1	247.7	247.7	255.7	229.6	229.6	246.0	210.8	210.8	236.0	191.1	191.1	225.8
			SHC	164.8	214.9	265.1	155.5	205.6	255.7	145.9	196.0	246.0	136.2	186.1	236.0	126.2	176.0	225.8
		72	TC	291.7	291.7	291.7	273.3	273.3	273.3	254.1	254.1	254.1	234.1	234.1	234.1	—	—	—
			SHC	114.3	164.4	214.4	105.1	155.1	205.1	95.6	145.6	195.5	85.9	135.8	185.8	—	—	—
		76	TC	—	314.5	314.5	—	295.3	295.3	—	275.0	275.0	—	254.0	254.0	—	—	—
			SHC	—	123.2	172.1	—	114.0	163.0	—	104.5	153.5	—	94.8	143.8	—	—	—

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EAT (db)	Entering Air Temperature (dry bulb)
EAT (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 5.