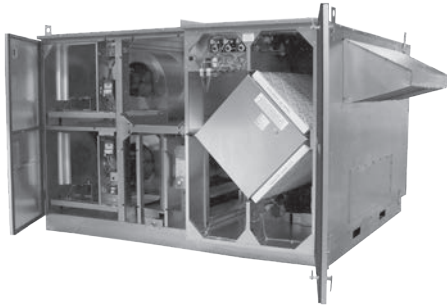


# RD 4XRT

## Dedicated Outdoor Air System Standard



### ROOFTOP UNIT with Bypass and Optional Coils



Download specification at:  
[renewaire.com/specifications](http://renewaire.com/specifications)

### SPECIFICATIONS

**Ventilation Type:**

Static plate, heat and humidity transfer

**Typical Airflow Range:** 1,000-4,250 CFM

**AHRI 1060 Certified Core:** Four L125 G5

**Standard Features:**

- TEFC Premium efficiency motors
- Bypass economizer with enthalpy control
- Variable frequency drives
- Non-fused disconnect
- Motorized isolation dampers - OA, RA
- Cross-core differential pressure ports

**Inlets/Outlets:** 14" x 48"

**Filters:**

- Total qty. 12, MERV 8:
- RA: (4) 20" x 20" x 2", (2) 20" x 14" x 2"
- OA: (4) 20" x 20" x 2", (2) 20" x 14" x 2"

**Unit Dimensions & Weight:**

135 1/2" L x 108 1/4" W x 65 3/4" H  
1,973-2,613 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**

Pallet 1 (unit): 114" L x 94" W x 72" H  
Pallet 2 (hoods): 70" L x 47" W x 72" H  
2,900 lbs.

**Motor(s):**

Qty. 2, 5.0 HP ea., Direct-drive DWDI centrifugal blowers, with standard Premium efficiency inverter-rated three-phase motors. (see table below)

**Options:**

- DX, heat pump, or water coil
- Additional water reheat coil
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**

- Filters - MERV 13, 2" (shipped loose)
- Roof curb - standard 14"
- Curb wind clip
- 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)
- Electric duct heater - EK series (1-175 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

### AIRFLOW PERFORMANCE WITHOUT COIL(S)

Blower VFD Setting	RPM	Unit Esp (In.H <sub>2</sub> O) And Power Consumption (Watts Per Airstream)													
		1500 CFM		2000 CFM		2500 CFM		3000 CFM		3500 CFM		4000 CFM		4250 CFM	
		ESP	WATTS	ESP	WATTS	ESP	WATTS	ESP	WATTS	ESP	WATTS	ESP	WATTS	ESP	WATTS
60 Hertz	1160					2.2	1860	1.9	2320	1.6	2860	1.2	3490	0.9	3840
55 Hertz	1063			2.0	1340	1.8	1660	1.5	2050	1.1	2510	0.5	3040	0.1	3330
50 Hertz	967	1.5	990	1.4	1190	1.2	1450	0.9	1770	0.5	2150	0.3	2590		
45 Hertz	870	1.1	900	1.0	1060	0.8	1280	0.4	1540	0.2	1860				

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

### ELECTRICAL DATA

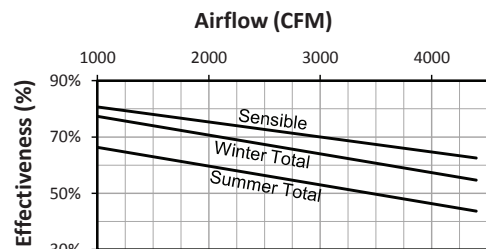
Electrical Specifications							
HP	Volts	Phase	Min. Cir. Amps.	Max. Overcurrent Protection Device	FLA per VFD	FLA per motor	Motor Efficiency
5.0	208-230	Three	41.8	50	18.6	15.0-14.0	89.5%
5.0	460	Three	20.9	25	9.3	7.0	89.5%
5.0	575	Three	15.5	20	6.9	5.6	89.5%

Available Coil Selections - Performance shown at 4,000 CFM			
Type	Air Side Pressure Drop (in.w.g.)*	Leaving Air Temp (°F)*	Coil (# Rows/FPI)
DX (Single- or Double-Circuit)	0.4 max	As low as 52	5 rows/14 FPI
Heat Pump (Single- or Double-Circuit)	0.5 max	As low as 52 (cooling mode) As high as 104 (heating mode)	6 rows/14 FPI
Water	0.5 max	As low as 55 (cooling mode) As high as 117 (heating mode), 140 EWT	5 rows/14 FPI
Water Reheat	0.1 max	As high as 103, 180 EWT	1 row/16 FPI

\* Depending on coil selected and operating conditions. For complete performance specifications of available coils, see RD IOM Book 2 "Specifications". Custom Coils also available.

Specifications may be subject to change without notice.

### CORE PERFORMANCE

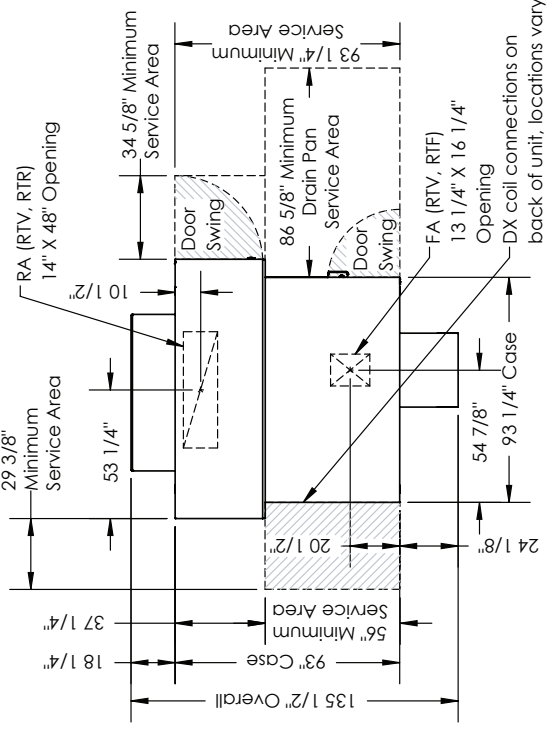


At AHRI 1060 standard conditions.  
See all AHRI certified ratings at [www.ahrinet.org](http://www.ahrinet.org).

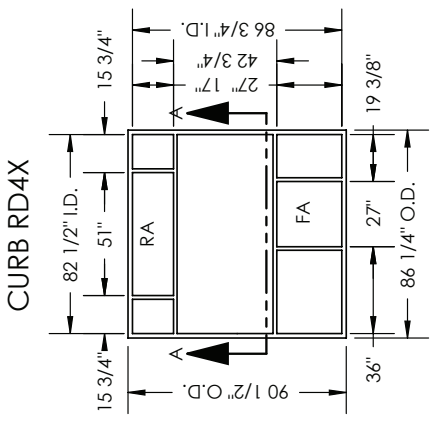
**ABBREVIATION**  
 EA: Exhaust Air to outside  
 OA: Outside Air Intake  
 RA: Room Air to be exhausted  
 FA: Fresh Air to inside  
 A: Rooftop Horizontal RA & FA  
 C: Rooftop Vertical RA Only  
 E: Rooftop Vertical FA Only  
 G: Rooftop Vertical RA & FA

**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.

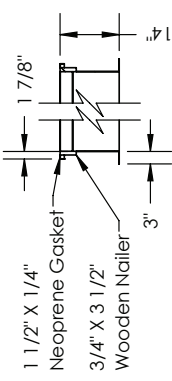


DX coil connections on back of unit, locations vary. Water connections internal, to be routed during field installation.



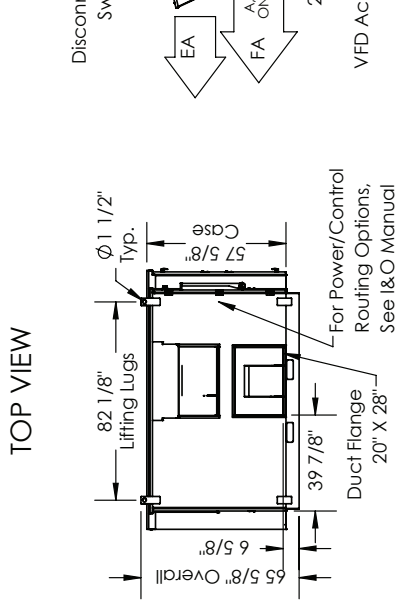
TOP VIEW

CURB CROSS-SECTION A-A (TYP.)

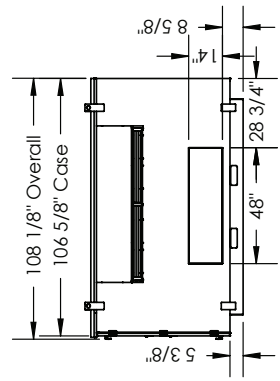


SECTION A-A

TOP VIEW

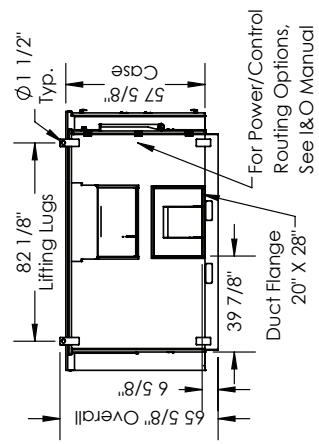


FRONT VIEW



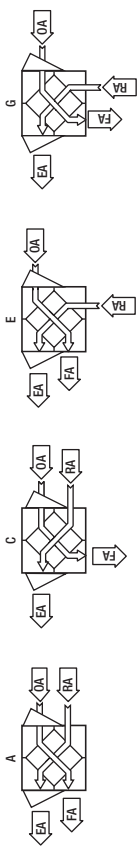
RIGHT VIEW

LEFT VIEW



LEFT VIEW

**UNIT MOUNTING & APPLICATION**  
 Must be mounted as shown. Airstreams can not be switched. Duct configuration is field convertible.



**AIRFLOW CONFIGURATION**  
 Available as shown:

