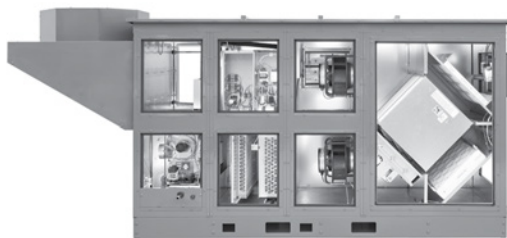


DN 5RT

ROOFTOP UNIT

Dedicated Outside Air System
Unit with Energy Recovery

NEW



DN2RT, ERV + DX + HGRH + GH (BT) shown

Energy Recovery Core is AHRI Certified®



ERV - Energy Recovery Ventilator

EH - Electric Heater

HC - Heating Coil

GH - Gas Heat Module

HGRH - Hot Gas Reheat Coil

DX - Direct Expansion (for DOAS units
with Packaged Refrigeration)

BT - Blow Thru

DT - Draw Thru

Dedicated Outdoor Air System Packaged Refrigeration



SPECIFICATIONS

Energy Recovery Type:

Static plate total energy transfer

Typical Airflow Range: 1,125-4,950 CFM

AHRI 1060 Certified Core:

One L-62-G5 and four L-125-G5

ETL Certification:

Tested to UL standards 1812 and 1995

Standard Features:

EC Motors for both airstreams
Direct Drive backward inclined plenum
Higher ESP of up to 3" w.g. at 4,500 CFM
Integrated programmable controls
True 100% Face and bypass enthalpy based modulating economizer
Class 1 low leakage motorized isolation dampers
Stainless steel double-sloped drain pan with cooling option
1", 20 gauge galvanized double wall foam-injected R6.5 insulation
Modbus RTU or IP Integration

Packaged Refrigeration Features:

EC motor for condenser fan (with the exception of 575V models, which are VFD driven)
DX cooling coil
Packaged refrigeration controls
BLDC scroll compressor(s)
Condensing coil

Inlets/Outlets:

OA & RA Inlets: 60" x 16"
SA Outlet: 24" x 16"
EA Outlet: 20" x 32"

Filters:

Total qty. 10, MERV 8:
16" x 20" x 2"

Bypass Filters:

Total qty. 4, MERV 8:
16" x 20" x 2"

Unit Weight for 1" Cabinets: 4825-6600 lbs.

Max. Shipping Dimensions & Weight for 1" Cabinets:

219 3/4" L x 100 1/4" W x 100" H
5050-6950 lbs.

Unit Weight for 2" Cabinets: 5000-6800 lbs.

Max. Shipping Dimensions & Weight for 2" Cabinets:

221 3/4" L x 101 1/4" W x 101 1/4" H
5225-7150 lbs.

Motor(s):

Qty. 4, Direct drive motorized impeller packages

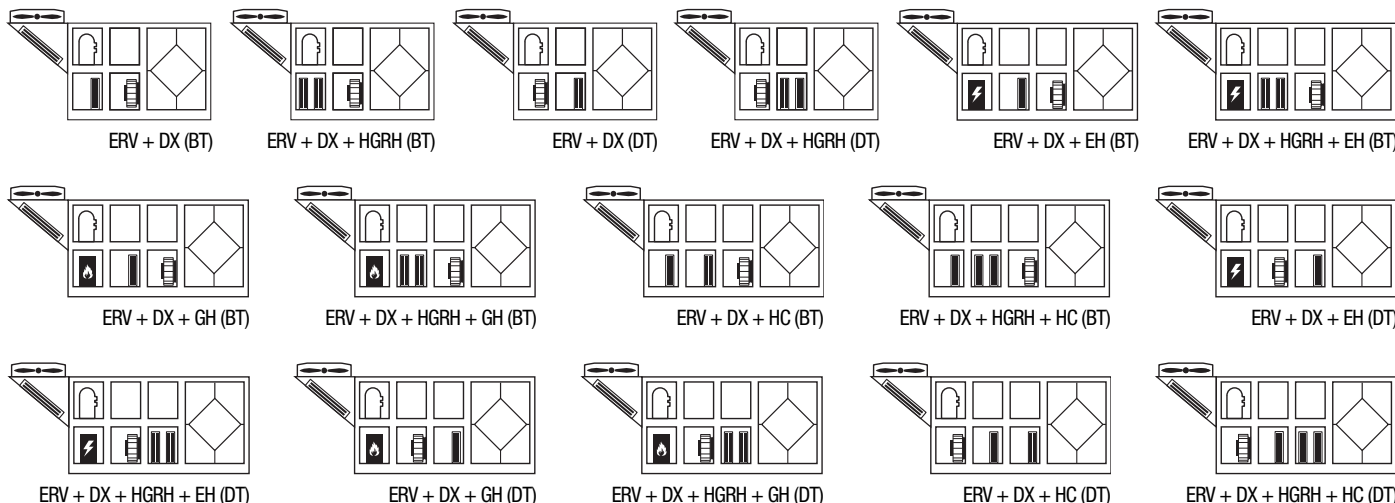
Options:

Modulating hot gas reheat
Steam or hot water coil, gas heat module or electric heater
Onboard variable frequency drives (VFDs) - both airstreams
Fused disconnect
Spring isolators (VFDs only)
2", 20 gauge galvanized double wall foam-injected R13 insulation with thermal break construction
Exterior paint - grey, white, custom color
Salt spray - 2500 hour
BACNET factory activation
GFCI convenience outlet
Recirculation damper
Drain overflow switch
Mist eliminator
Electrofin coating for coils

Accessories:

Filters - MERV 13, 2" and 4" (shipped loose),
MERV 14, 2" and 4" (shipped loose)
Additional filters available upon request
Roof curb - standard 14"
Custom hurricane or seismic rated curbs
Curb clip kit
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
Room temperature and humidity sensor
Duct static pressure sensor with display to 10", without display 0-2"
Room pressure sensor with display to 1", without display 0-1"
Waterless trap negative pressure
Waterless trap positive pressure
Remote display

INTERNAL OPTIONS FOR HEATING AND COOLING





Dedicated Outdoor Air System Packaged Refrigeration

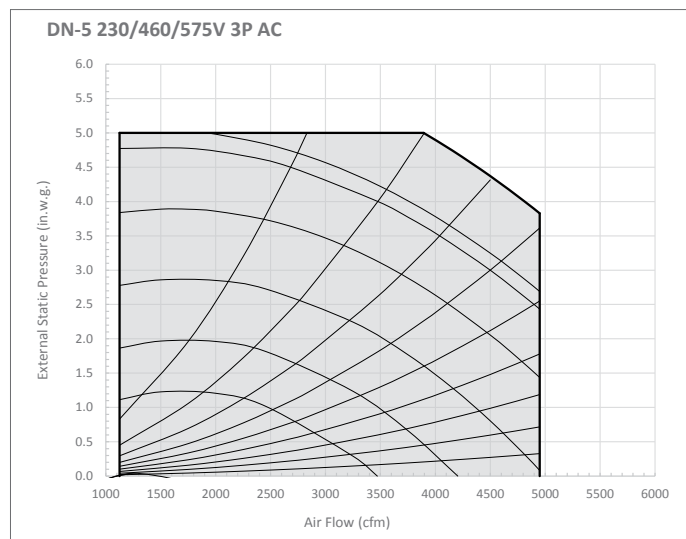
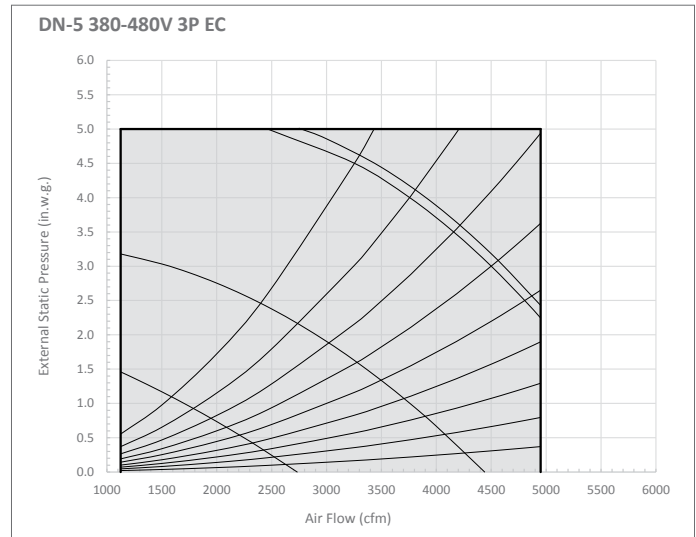
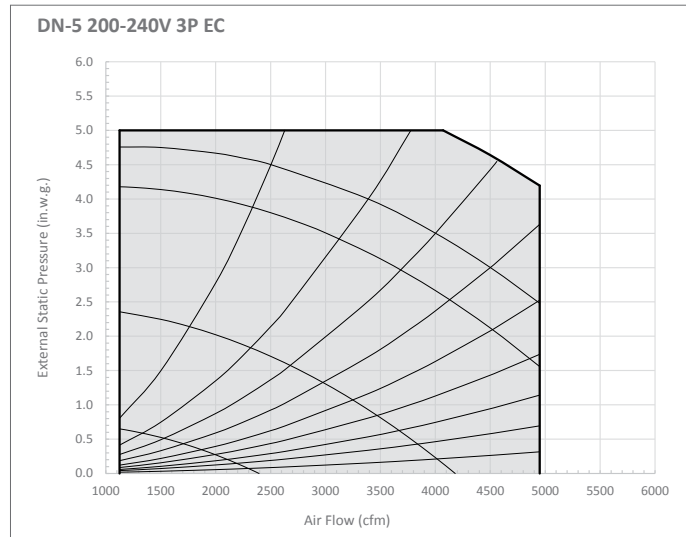


ELECTRICAL DATA

Electrical Specifications											
Spd Ctl	Unit					Supply Air & Exhaust Air Fan		Condenser Fan		Compressors	
	Volts	Frequency	Phase	Min. Cir. Amps.	Max. Overcurrent Protection Device	Motor Qty/kW or HP	FLA per motor	Motor Qty/kW or HP	FLA per motor	Variable Speed Compressor Drive Amps	Fixed Speed Compressor MCC
EC	200-240	50/60 Hz	Three	163.4	200	4 @ 2.70 kW ea.	8.6-7.2	2 @ 3.60 kW ea.	11.0-9.2	50.4	44
	380-480	50/60 Hz	Three	140.4	175	4 @ 3.70 kW ea.	6.0-4.6	2 @ 3.70 kW ea.	6.0-4.7	49.9	42
VFD	208-230	50/60 Hz	Three	140.6	175	4 @ 5HP ea.	13.9-13.4/6.7	2 @ 3.60 kW ea.	11.0-9.2	50.4	n/a
	460	50/60 Hz	Three	143.2	175	4 @ 5HP ea.	6.7	2 @ 3.70 kW ea.	6.0-4.7	49.9	42
	575	50/60 Hz	Three	112.6	150	4 @ 5HP ea.	5.3	2 @ 2.8 kW ea.	3.7	37.6	37

Note: Electrical data shown is for a standard unit with largest compressor available, but without heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

AIRFLOW PERFORMANCE



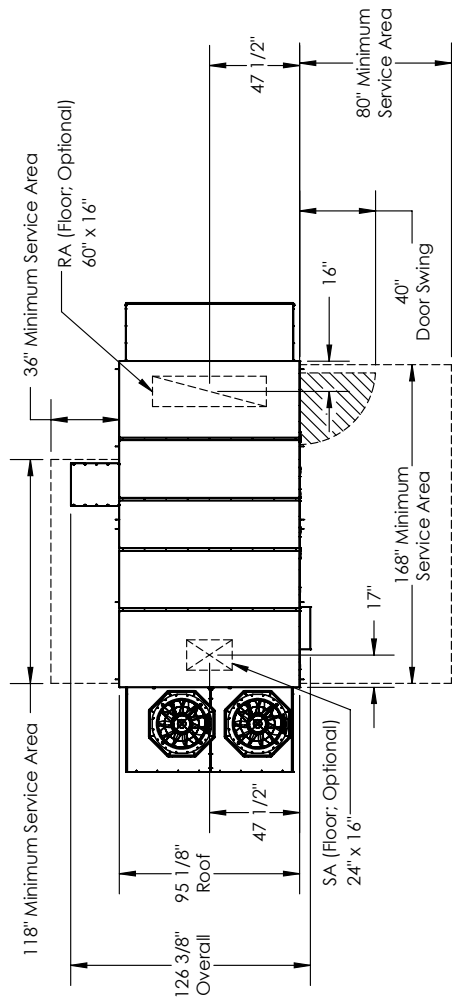
DN5RT Dedicated Outdoor Air System Packaged Refrigeration Standard 1" Cabinet

ABBREVIATIONS
 EA: Exhaust Air to outside
 OA: Outside Air Intake
 RA: Room Air to be exhausted
 SA: Supply Air to inside
 CA: Condenser Air

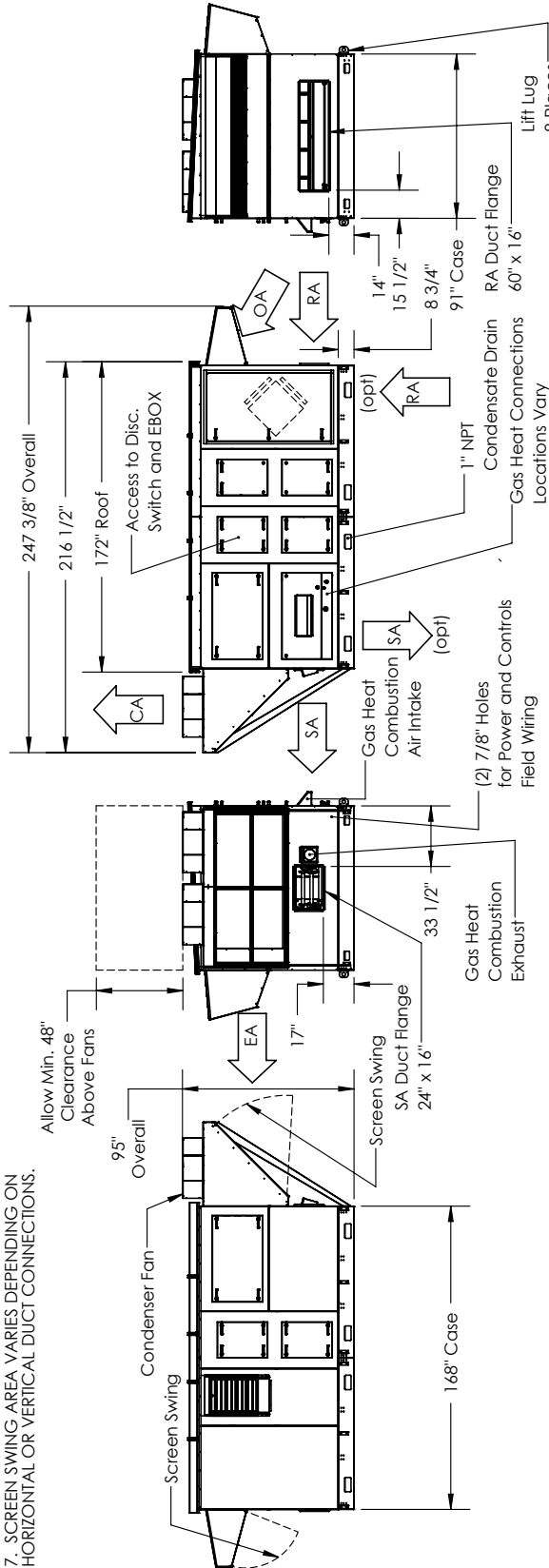
INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.
4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORRED.
5. FOR CURB DETAILS REFER TO CURB DRAWING.
6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.
7. SCREEN SWING AREA VARIES DEPENDING ON HORIZONTAL OR VERTICAL DUCT CONNECTIONS.



TOP VIEW



BACK VIEW

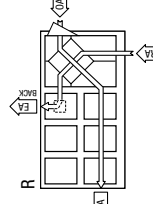
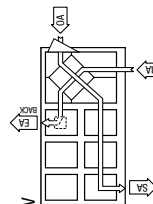
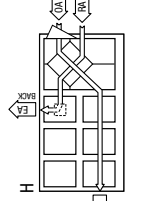
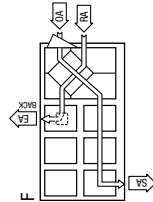
LEFT VIEW

FRONT VIEW

RIGHT VIEW

AIRFLOW ORIENTATION

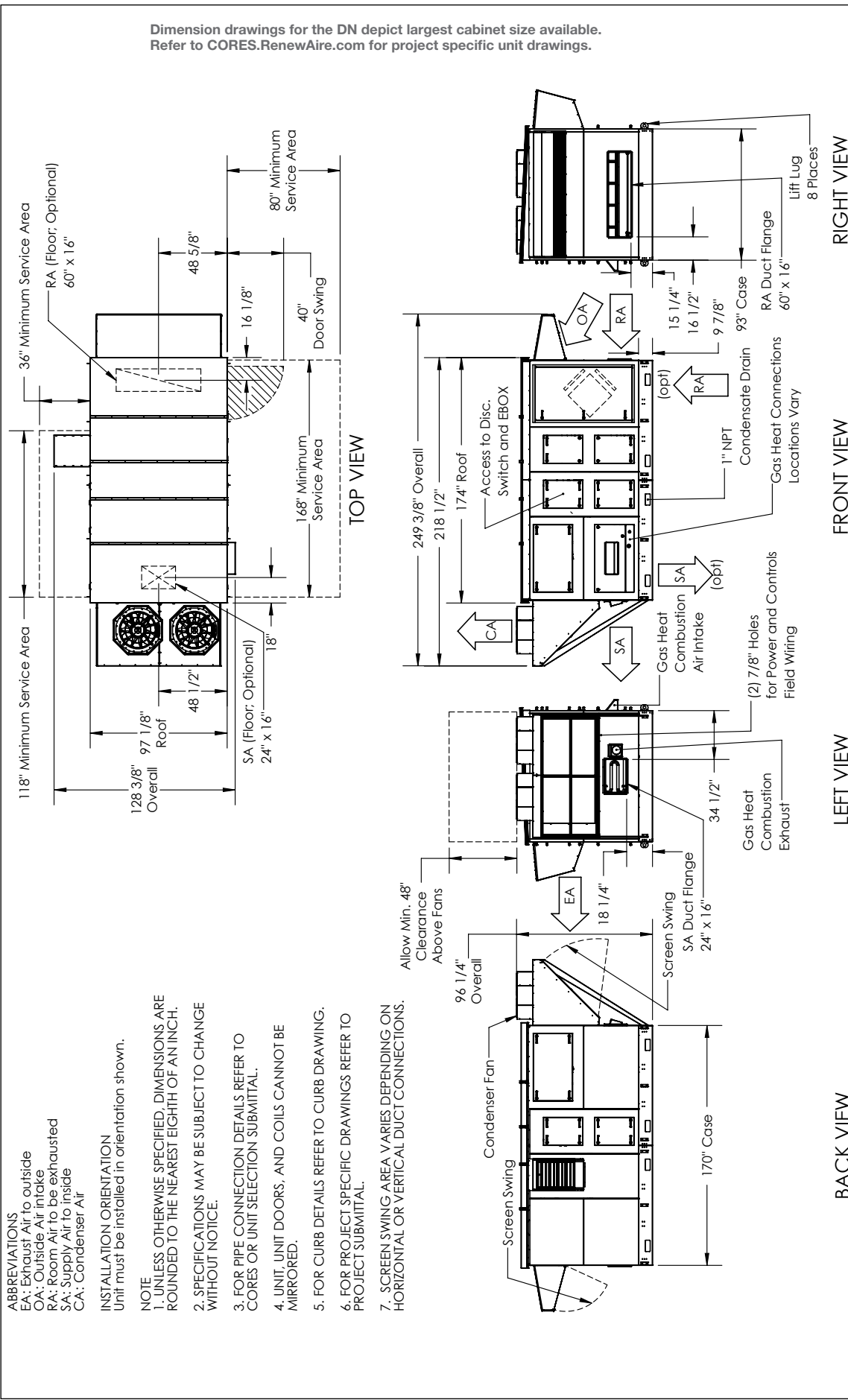
Available as shown:



UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.

Dimension drawings for the DN depict largest cabinet size available.
 Refer to CORES.RenewAire.com for project specific unit drawings.

DN5RT Dedicated Outdoor Air System Packaged Refrigeration Standard 2" Cabinet



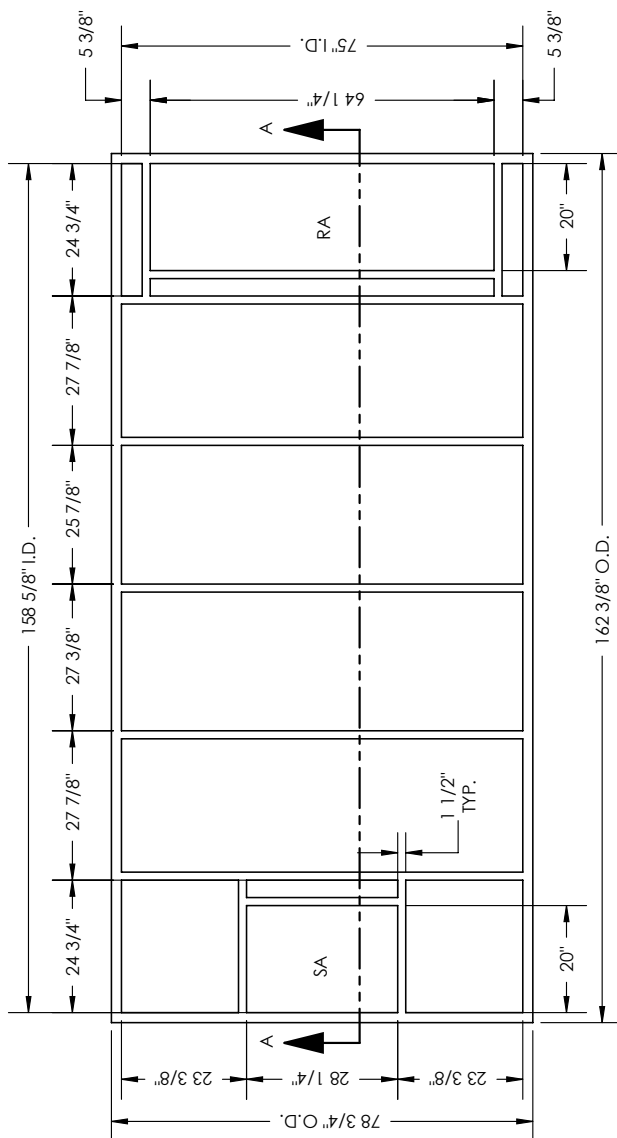
- ABBREVIATIONS**
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
SA: Supply Air to inside
CA: Condenser Air
- INSTALLATION ORIENTATION**
Unit must be installed in orientation shown.
- NOTE**
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.
4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORRED.
5. FOR CURB DETAILS REFER TO CURB DRAWING.
6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.
7. SCREEN SWING AREA VARIES DEPENDING ON HORIZONTAL OR VERTICAL DUCT CONNECTIONS.

DN5RT Dedicated Outdoor Air System Packaged Refrigeration Curbs

DUCT SUPPORT DIMENSIONS
WIDTH: 1 1/2" DEPTH: 3"

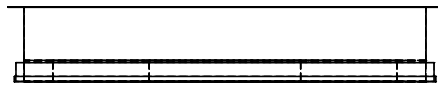
RA: Room Air to be exhausted
SA: Supply Air to inside

DN5RT
CURB DN5-ERV+C+H

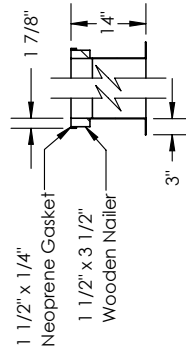


TOP VIEW

END VIEW



CURB CROSS-SECTION A-A (TYP.)

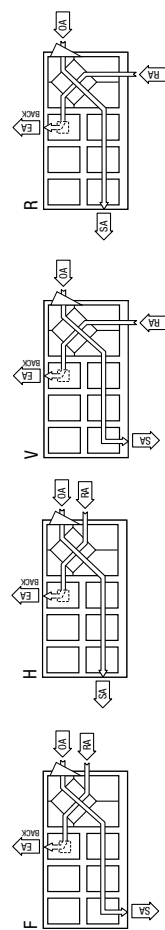


SECTION A-A



FRONT VIEW

AIRFLOW ORIENTATION
Available as shown:



UNIT MOUNTING & APPLICATION
This universal DN Series curb can be used in conjunction with RTE, RTH, RTV and RTR models.

Dimension drawings for the DN depict largest cabinet size available.
Refer to CORES.RenewAire.com for project specific unit drawings.