

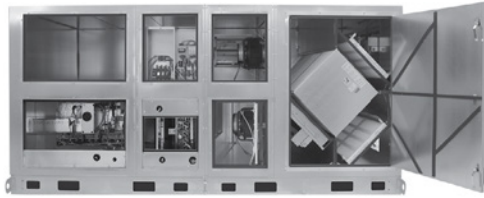


Dedicated Outdoor Air System Standard



INDOOR UNIT

Dedicated Outside Air System
Unit with Energy Recovery



DN3IN, ERV + CC + HGRH + GH (BT) shown

Energy Recovery Core is AHRI Certified®



ERV - Energy Recovery Ventilator

EH - Electric Heater

CC - Cooling Coil

HC - Heating Coil

GH - Gas Heat Module

HGRH - Hot Gas Reheat Coil

BT - Blow Thru

DT - Draw Thru

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

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: 2600-4850 lbs.

Max. Shipping Dimensions & Weight for 1" Cabinets (on pallet):

180" L x 101 1/2" W x 94" H

2850-5100 lbs.

Unit Weight for 2" Cabinets: 2725-5050 lbs.

Max. Shipping Dimensions & Weight for 2" Cabinets (on pallet):

180" L x 101 1/2" W x 96" H

2975-5300 lbs.

Motor(s):

Qty. 4, Direct drive motorized impeller packages

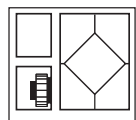
Options:

DX, heat pump, or chilled water cooling coil
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
BACNET factory activation
GFCI convenience outlet
Recirculation damper
Drain overflow switch
Electrofin coating for coils

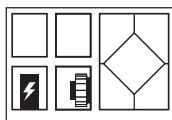
Accessories:

Filters - MERV 13, 2" and 4" (shipped loose), MERV 14, 2" and 4" (shipped loose)
Additional filters available upon request
Duct mounted electric pre-heater (separately powered)
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

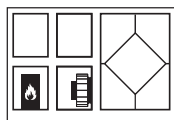
INTERNAL OPTIONS FOR HEATING AND COOLING



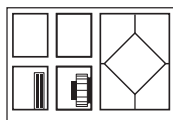
ERV only



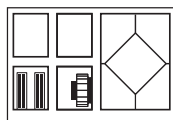
ERV + EH (BT)



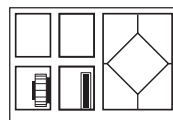
ERV + GH (BT)



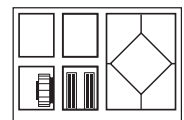
ERV + CC/HC (BT)



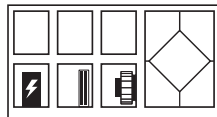
ERV + CC + HGRH (BT)



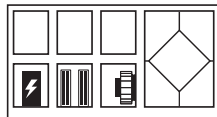
ERV + CC/HC (DT)



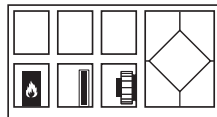
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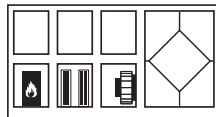
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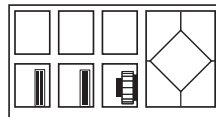
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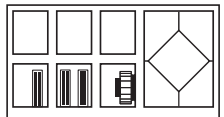
ERV + CC + GH (BT)



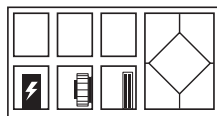
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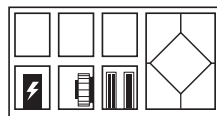
ERV + CC + HC (BT)



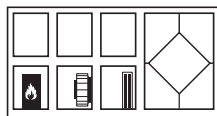
ERV + CC + HGRH + HC (BT)



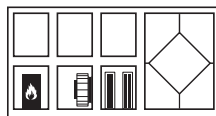
ERV + CC + EH (DT)



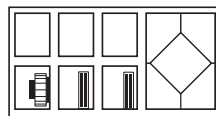
ERV + CC + HGRH + EH (DT)



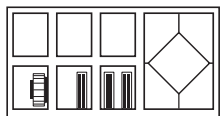
ERV + CC + GH (DT)



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Dedicated Outdoor Air System Standard

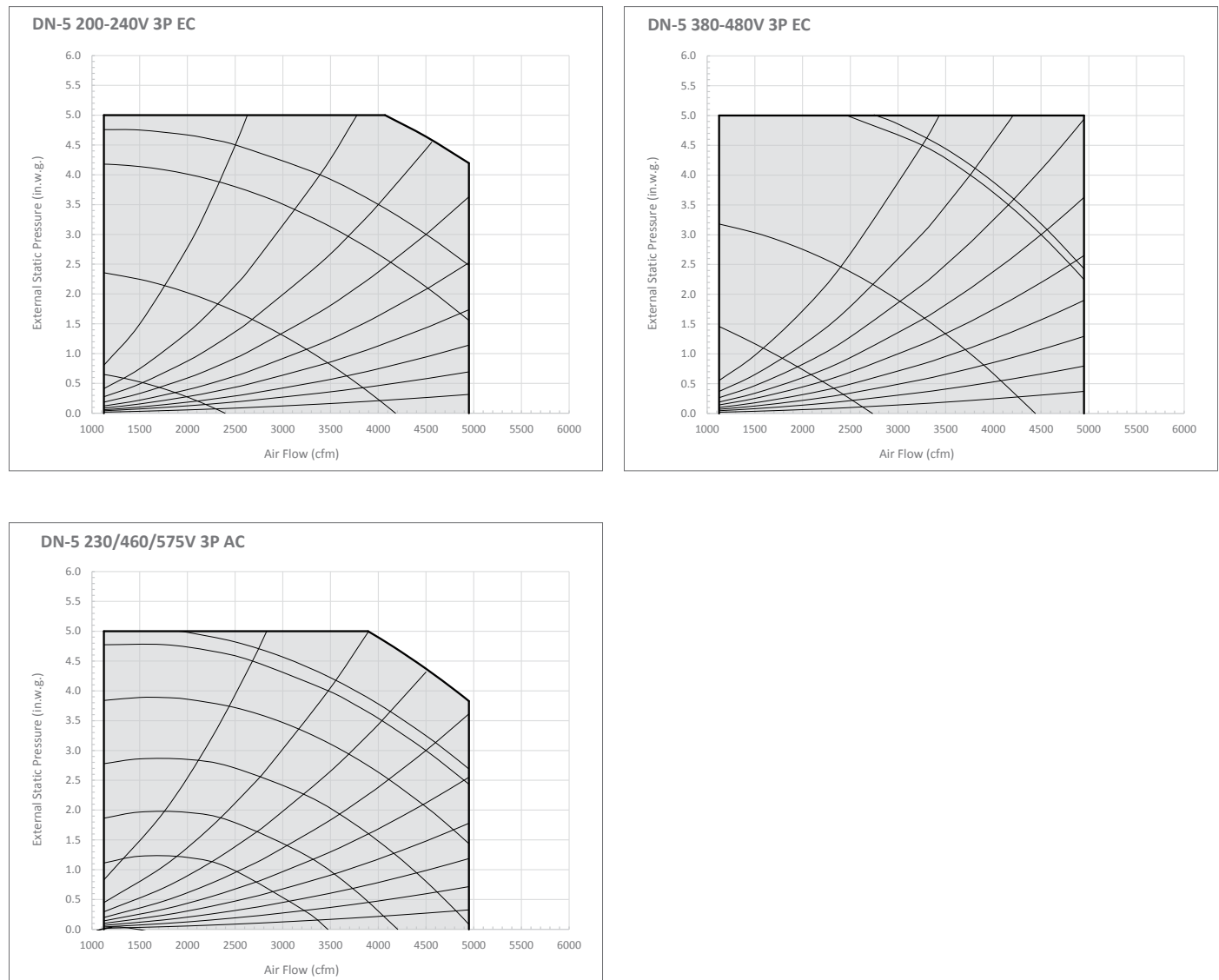


ELECTRICAL DATA

Electrical Specifications							
	Motor Qty/kW or HP	Volts	Frequency	Phase	Min. Cir. Amps.	Max. Overcurrent Protection Device	FLA per motor
EC	4 @ 2.70 kW ea.	200-240	50/60 Hz	Three	36.6	45	8.6-7.2
	4 @ 3.70 kW ea.	380-480	50/60 Hz	Three	25.5	30	6.0-4.6
VFD	4 @ 5HP ea.	208-230	50/60 Hz	Three	59.1	70	13.9-13.4/6.7
	4 @ 5HP ea.	460	50/60 Hz	Three	28.5	35	6.7
	4 @ 5HP ea.	575	50/60 Hz	Three	22.5	25	5.3

Note: Electrical data shown is for a standard unit without cooling and heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

AIRFLOW PERFORMANCE



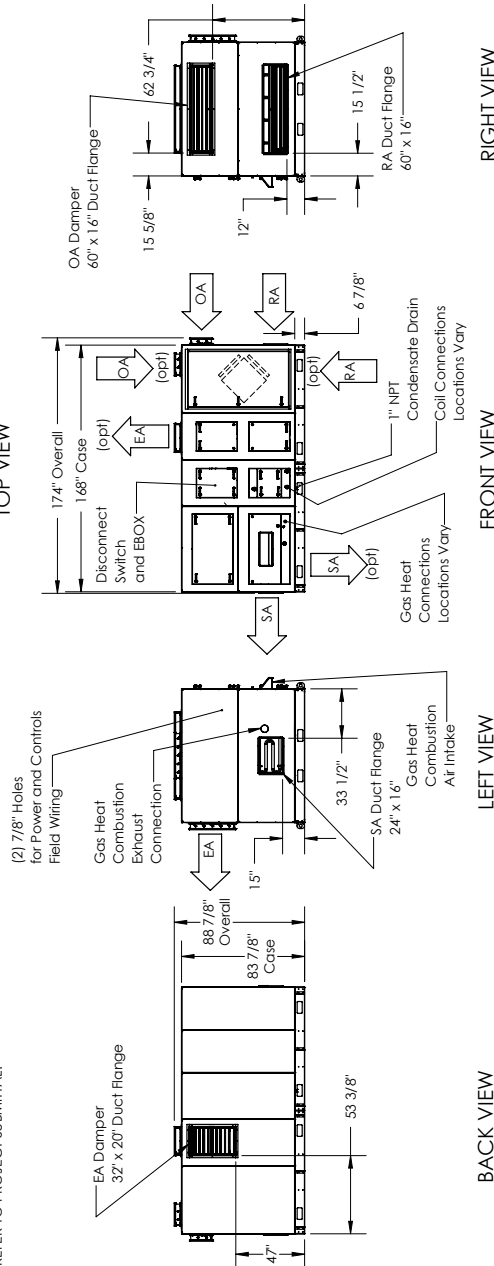
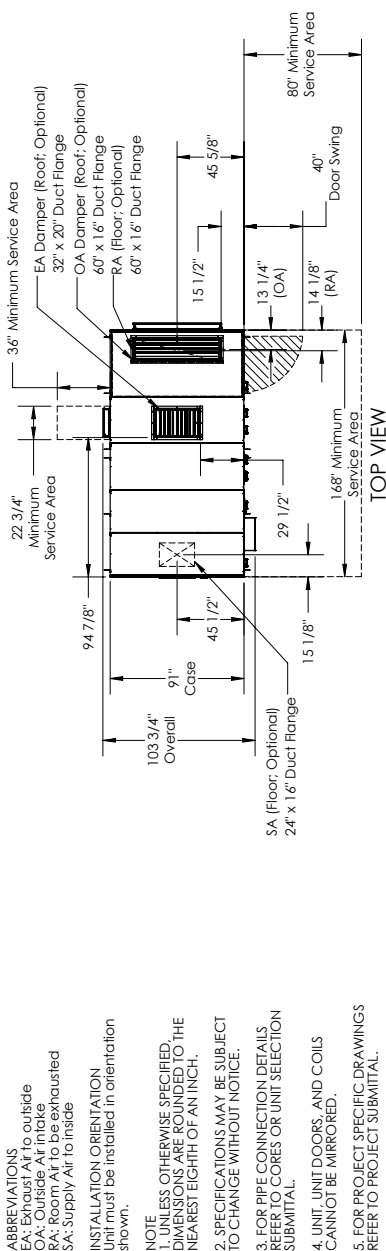
DN5IN Dedicated Outdoor Air System Standard 1" Cabinet

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

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 PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.

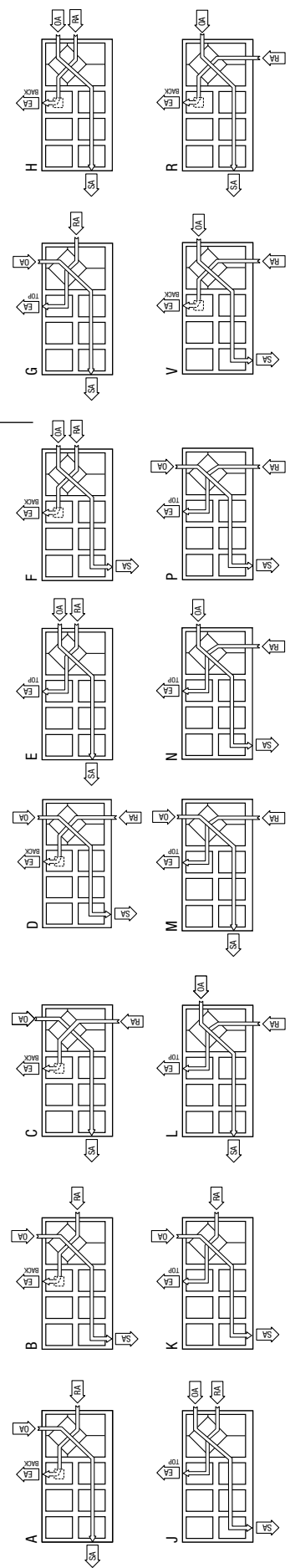
Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.



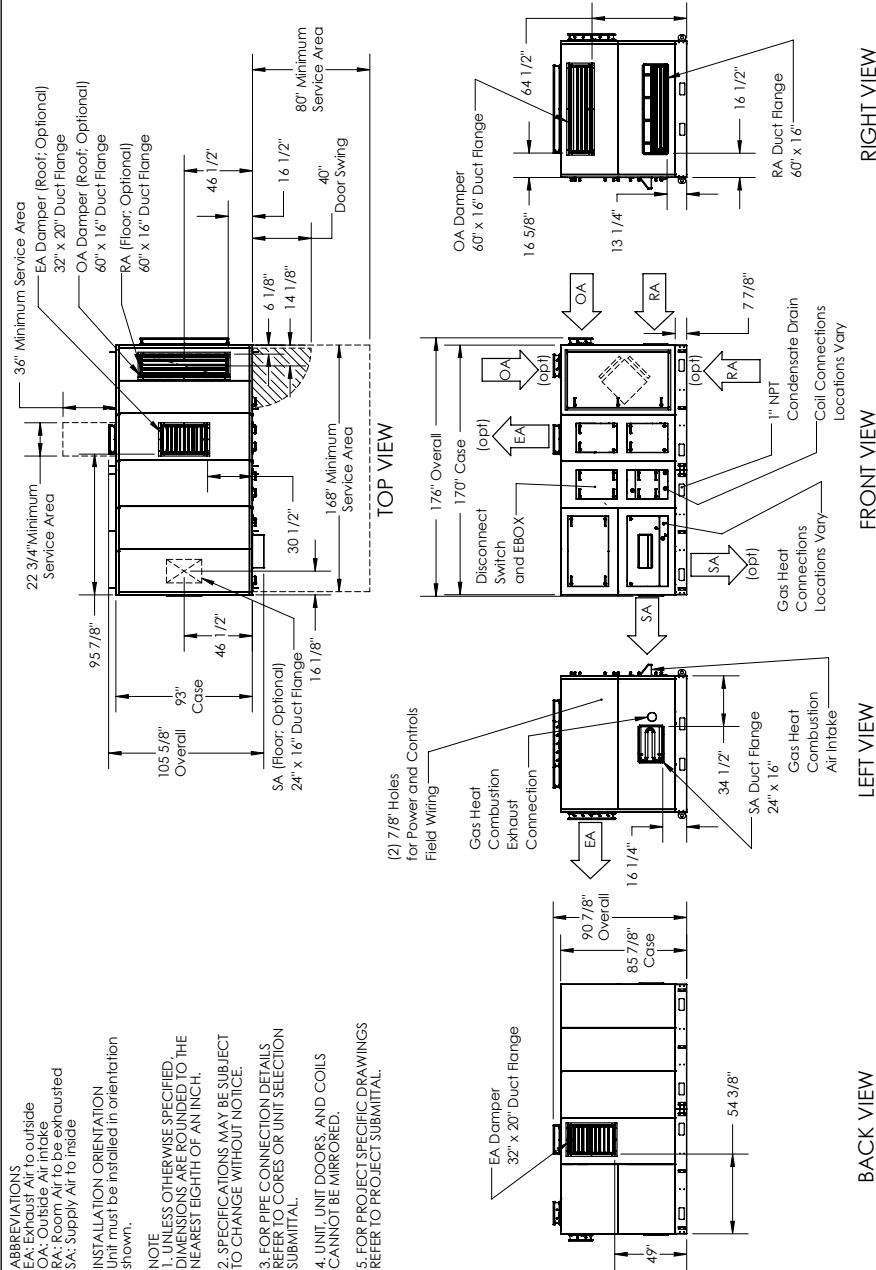
AIRFLOW ORIENTATION

Available as shown:

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

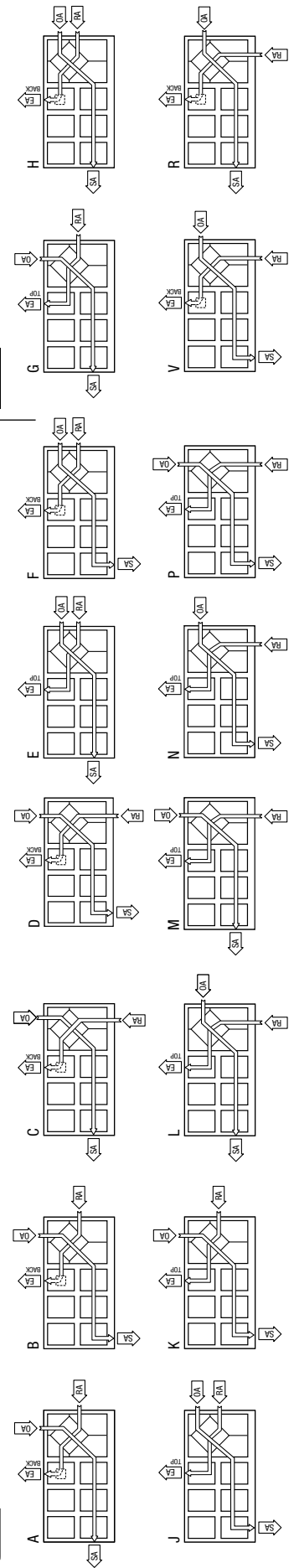


Dimension drawings for the DN depict largest cabinet size available. Refer to [CORES.RenewAire.com](https://www.cores.renewaire.com) for project specific unit drawings.



AIRFLOW ORIENTATION

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