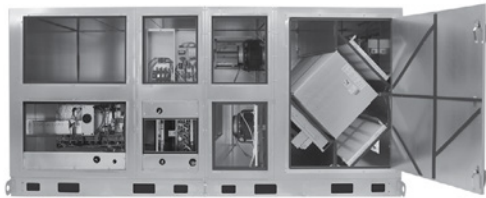


**INDOOR UNIT**

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

Dedicated Outdoor Air System

Standard

**SPECIFICATIONS****Energy Recovery Type:**

Static plate total energy transfer

Typical Airflow Range: 750-3,300 CFM

AHRI 1060 Certified Core:

Three 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 2.5" w.g. at 3,000 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: 36" x 16"

SA Outlet: 24" x 16"

EA Outlet: 20" x 16"

Filters:

Total qty. 6, MERV 8:

20" x 20" x 2"

Unit Weight for 1" Cabinets: 1600-3475 lbs.

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

160" L x 90" W x 77" H

1825-3700 lbs.

Unit Weight for 2" Cabinets: 1725-3675 lbs.

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

160" L x 90" W x 79" H

1950-3900 lbs.

Motor(s):

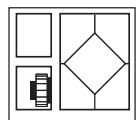
Qty. 2, Direct drive motorized impeller packages

Options:

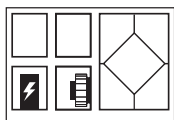
DX, heat pump, or chilled water cooling coil
Modulating hot gas reheat
Steam or hot water coil, gas heat module or electric heater
Onboard variable frequency drives (VFDs) - both airstreams
Fused disconnect
Spring isolators (VFDs only)
2", 20 gauge galvanized double wall foam-injected R13 insulation 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:

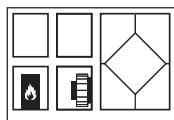
Filters - MERV 13, 2" and 4" (shipped loose), MERV 14, 2" and 4" (shipped loose)
Additional filters available upon request
Duct mounted electric pre-heater (separately powered)
Carbon dioxide sensor/control - wall mount (CO2-W), duct mount (CO2-D)
IAQ sensor - wall mount (IAQ-W), duct mount (IAQ-D)
Motion 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

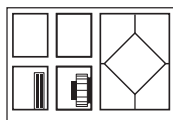
ERV only



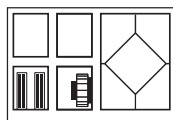
ERV + EH (BT)



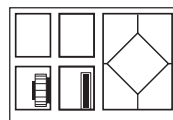
ERV + GH (BT)



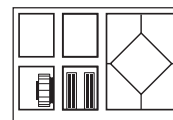
ERV + CC/HC (BT)



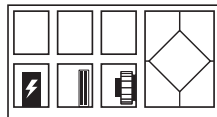
ERV + CC + HGRH (BT)



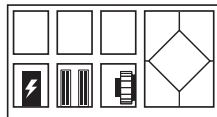
ERV + CC/HC (DT)



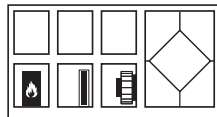
ERV + CC + HGRH (DT)



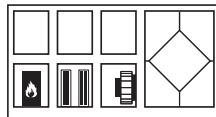
ERV + CC + EH (BT)



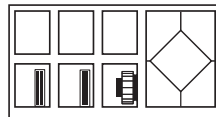
ERV + CC + HGRH + EH (BT)



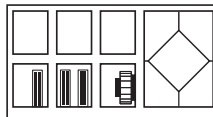
ERV + CC + GH (BT)



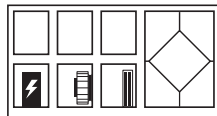
ERV + CC + HGRH + GH (BT)



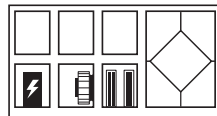
ERV + CC + HC (BT)



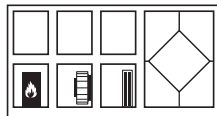
ERV + CC + HGRH + HC (BT)



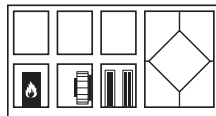
ERV + CC + EH (DT)



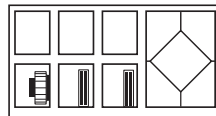
ERV + CC + HGRH + EH (DT)



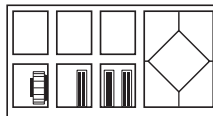
ERV + CC + GH (DT)



ERV + CC + HGRH + GH (DT)



ERV + CC + HC (DT)



ERV + CC + HGRH + HC (DT)



Dedicated Outdoor Air System Standard

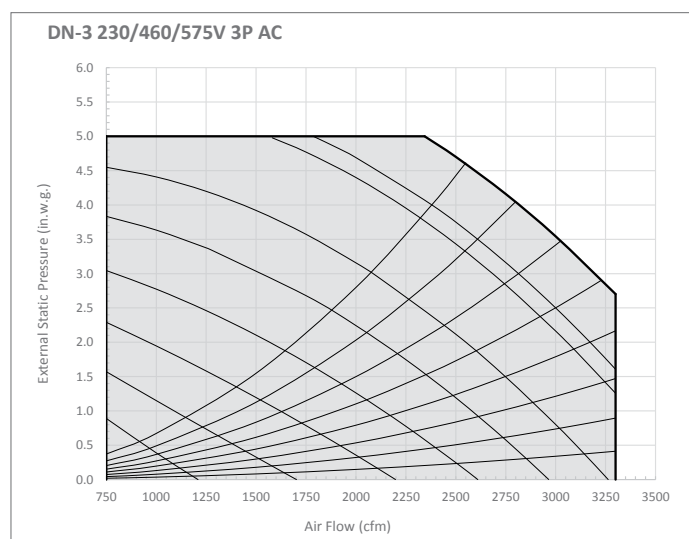
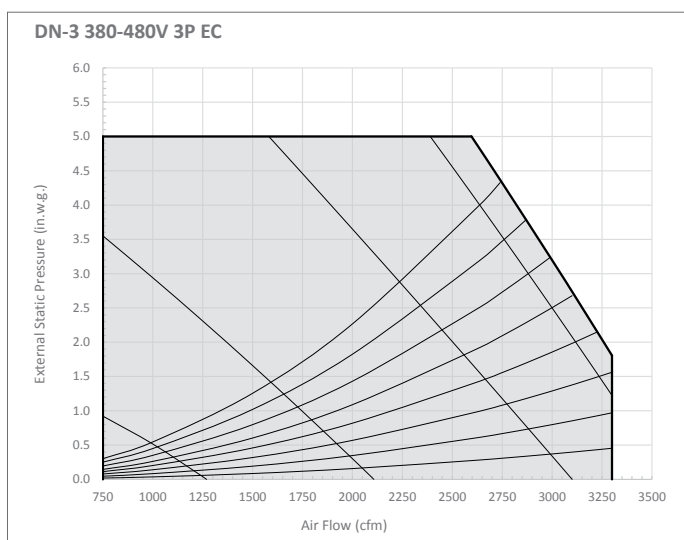
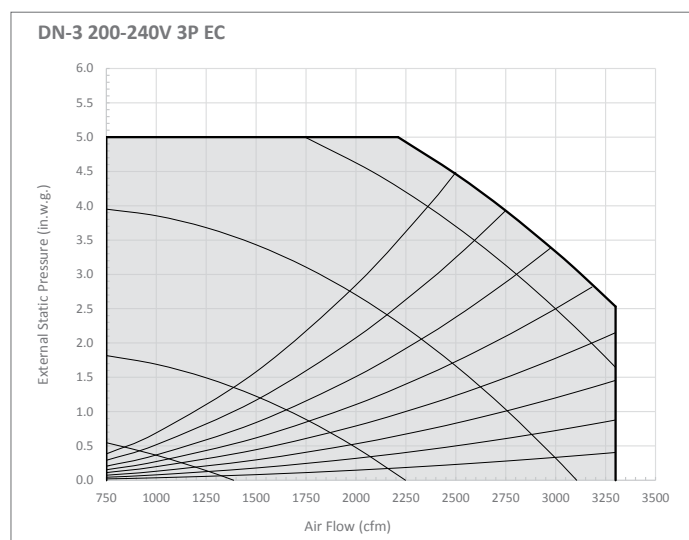


ELECTRICAL DATA

Electrical Specifications							
	Motor Qty/kW or HP	Volts	Frequency	Phase	Min. Cir. Amps.	Max. Overcurrent Protection Device	FLA per motor
EC	2 @ 2.70 kW ea.	200-240	50/60 Hz	Three	19.4	25	8.6-7.2
	2 @ 3.70 kW ea.	380-480	50/60 Hz	Three	13.5	15	6.0-4.6
VFD	2 @ 5HP ea.	208-230	50/60 Hz	Three	31.3	45	13.9-13.4/6.7
	2 @ 5HP ea.	460	50/60 Hz	Three	15.1	20	6.7
	2 @ 5HP ea.	575	50/60 Hz	Three	11.9	15	5.3

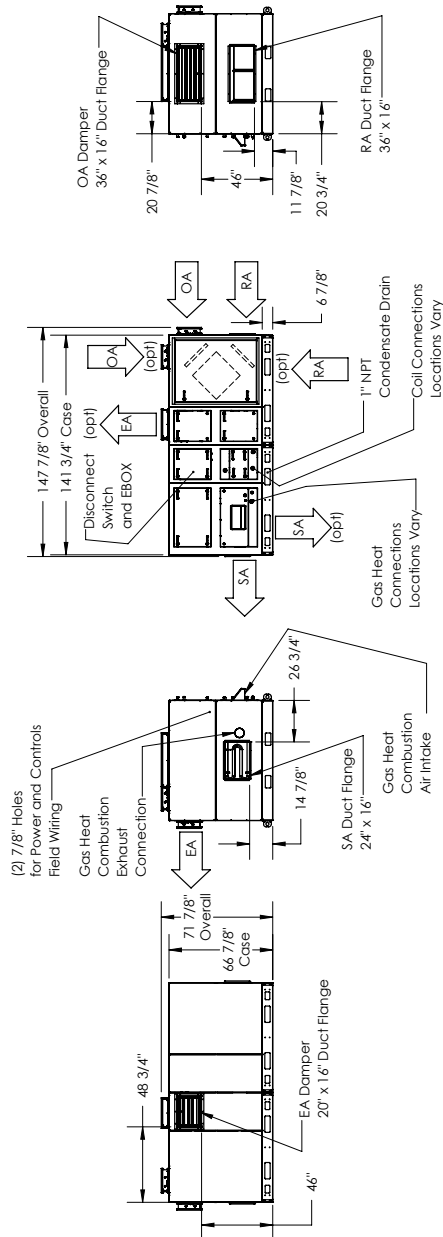
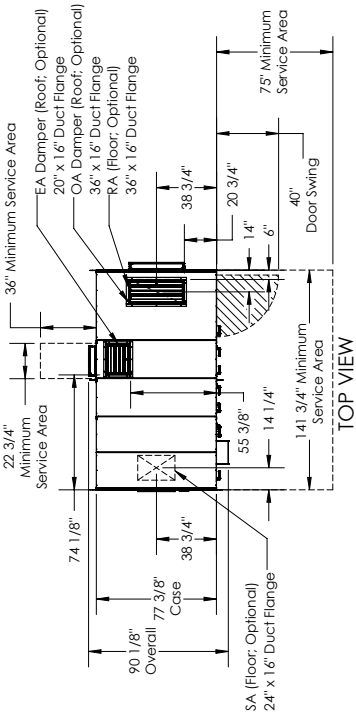
Note: Electrical data shown is for a standard unit without cooling and heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

AIRFLOW PERFORMANCE



DN3IN 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.



RIGHT VIEW

FRONT VIEW

LEFT VIEW

BACK VIEW

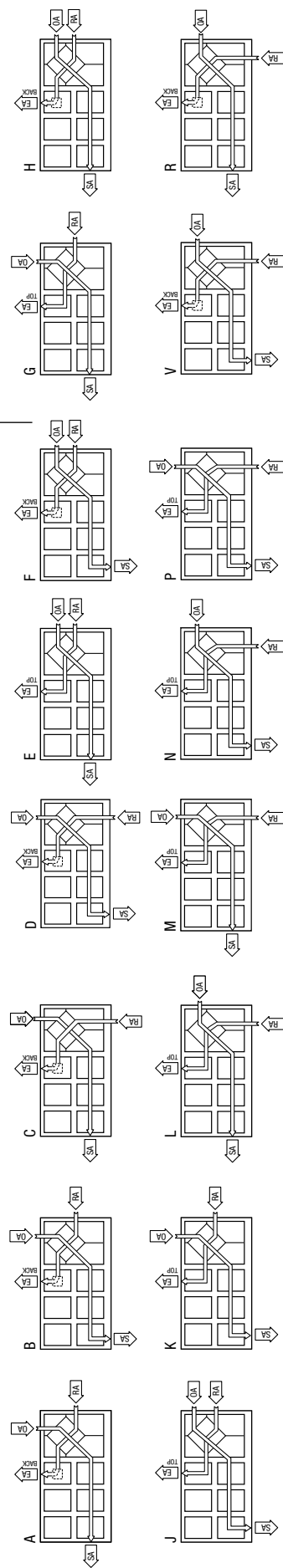
Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.

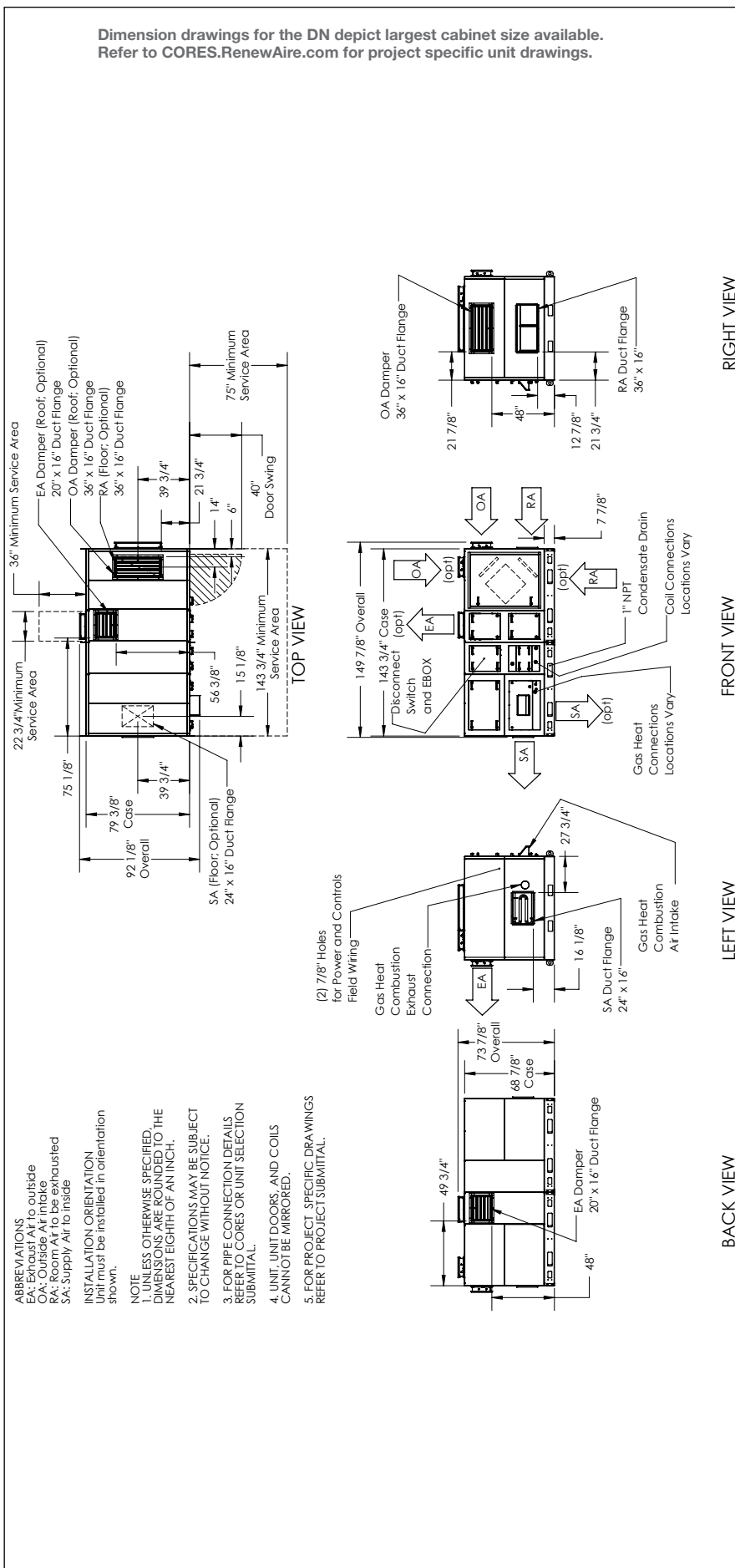
AIRFLOW ORIENTATION

Available as shown:



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





AIRFLOW ORIENTATION

Available as shown:



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams can not be switched.

