

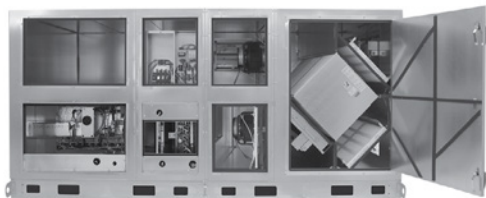


Dedicated Outdoor Air System Standard



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: 375-1,650 CFM

AHRI 1060 Certified Core:

One L-62-G5 and one 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" w.g. at 1,500 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: 24" x 16"
SA Outlet: 24" x 16"
EA Outlet: 20" x 16"

Filters:

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

Unit Weight for 1" Cabinets: 1250-2425 lbs.

Max. Shipping Dimensions & Weight for 1"

Cabinets (on pallet):
140" L x 90" W x 77" H
1450-2625 lbs.

Unit Weight for 2" Cabinets: 1350-2550 lbs.

Max. Shipping Dimensions & Weight for 2"

Cabinets (on pallet):
140" L x 90" W x 79" H
1550-2750 lbs.

Motor(s):

Qty. 2, Direct drive motorized impeller packages

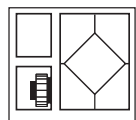
Options:

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

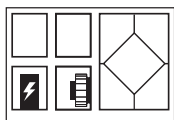
Accessories:

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

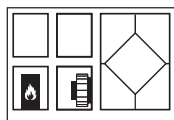
INTERNAL OPTIONS FOR HEATING AND COOLING



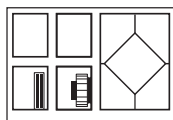
ERV only



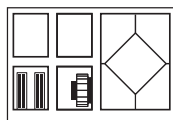
ERV + EH (BT)



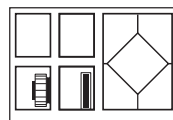
ERV + GH (BT)



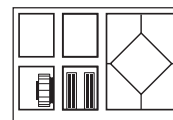
ERV + CC/HC (BT)



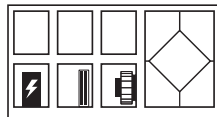
ERV + CC + HGRH (BT)



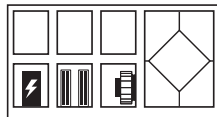
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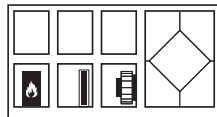
ERV + CC + HGRH (DT)



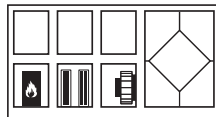
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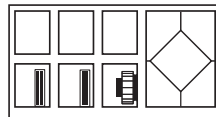
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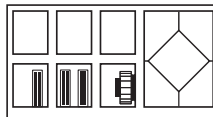
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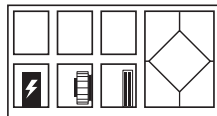
ERV + CC + HGRH + GH (BT)



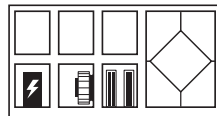
ERV + CC + HC (BT)



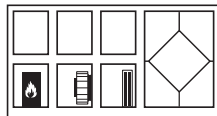
ERV + CC + HGRH + HC (BT)



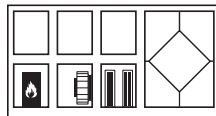
ERV + CC + EH (DT)



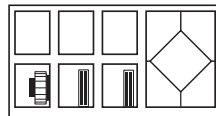
ERV + CC + HGRH + EH (DT)



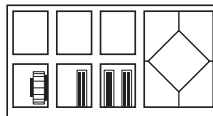
ERV + CC + GH (DT)



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Dedicated Outdoor Air System Standard

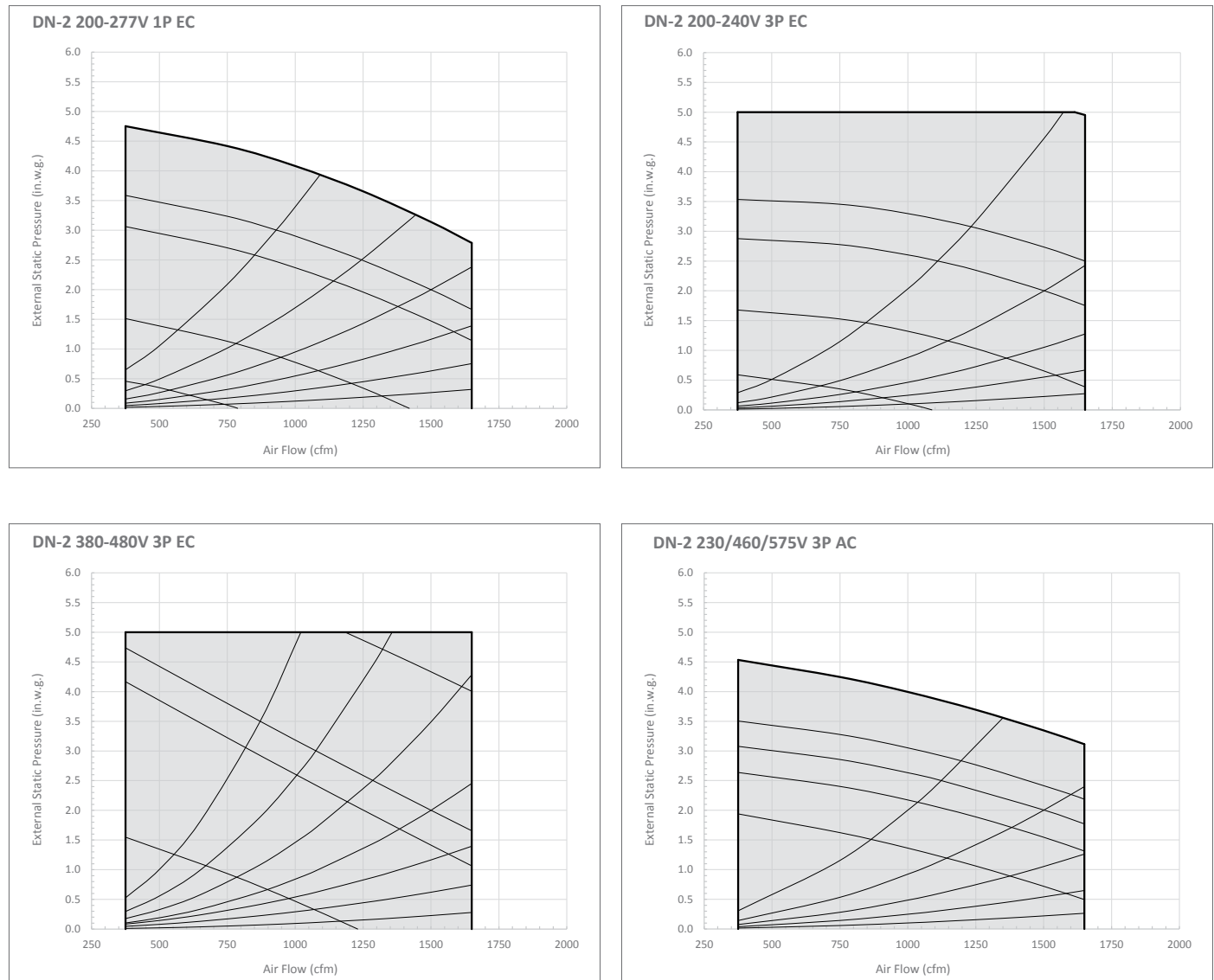


ELECTRICAL DATA

Electrical Specifications							
	Motor Qty/kW or HP	Volts	Frequency	Phase	Min. Cir. Amps.	Max. Overcurrent Protection Device	FLA per motor
EC	2 @ 1.35 kW ea.	200-277	50/60 Hz	Single	15.1	20	6.7-4.8
	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 @ 3HP ea.	208-230	50/60 Hz	Three	20.3	25	9-8.4/4.2
	2 @ 3HP ea.	460	50/60 Hz	Three	9.5	15	4.2
	2 @ 3HP ea.	575	50/60 Hz	Three	7.4	15	3.3

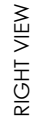
Note: Electrical data shown is for a standard unit without cooling and heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

AIRFLOW PERFORMANCE



DN2IN Dedicated Outdoor Air System Standard 1" Cabinet

5.FOR PROJECT SPECIFIC DRAWINGS
REFER TO PROJECT SUBMITTAL.



RenewAire®
Energy Recovery Ventilation

Dedicated Outdoor Air System

Standard 2" 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

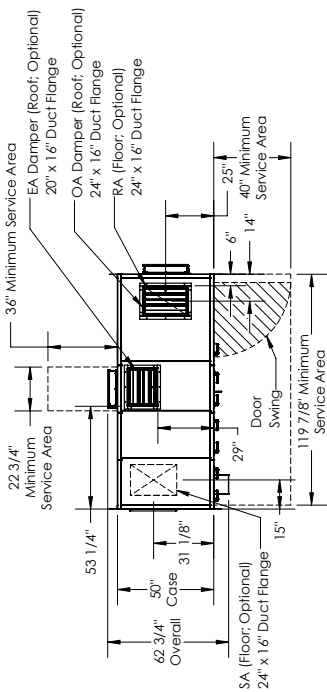
NO CHANGE WITHOUT NOTICE.

3. FOR PIPE CONNECTION DETAILS
REFER TO CORES OR UNIT SELECTION
SUBMITTAL.

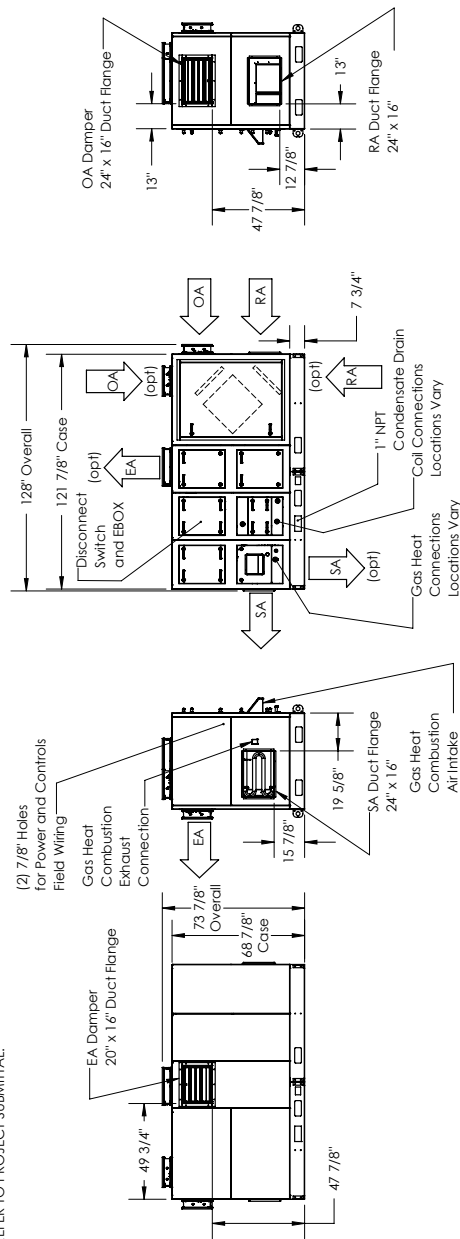
UNIT UNIT DOORS AND COILS

4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORED.

5. FOR PROJECT SPECIFIC DRAWINGS
REFER TO PROJECT SUBMITTAL.



TOP VIEW



BACK VIEW

FRONT VIEW

RIGHT VIEW

AIRFLOW ORIENTATION

Available as shown:



UNIT MOUNTING & APPLICATION

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

