

Model: ES160

VENTILATION PERFORMANCE

ENERGY PERFORMANCE

EXT. STATIC PRESSURE in wg (Pa)	NET SUPPLY AIR FLOW cfm (l/s)	GROSS AIR FLOW		SUPPLY TEMP. °F (°C)	NET AIR FLOW cfm (l/s)	POWER CONSUMED Watts	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS
		SUPPLY cfm (l/s)	EXHAUST cfm (l/s)					
0.2 (50)	162 (76)	156 (74)	163 (77)	+32 (0)	64 (30)	54	68	78
0.3 (75)	149 (70)	150 (71)	155 (73)	+32 (0)	90 (43)	64	64	72
0.4 (100)	136 (64)	140 (66)	149 (70)	+32 (0)	115 (55)	86	61	69
0.5 (125)	122 (58)	133 (63)	142 (67)					
0.6 (150)	108 (51)	122 (58)	134 (63)	13 (-25)	76 (36)	77	56	69
0.7 (175)	92 (44)	115 (54)	125 (59)					



CABINET/CORE: Collar size: 6-inch (152.4 mm). The case is constructed of 0.032 painted aluminum with a white enamel finish. The cabinet is fully insulated with 1-inch polyurethane. The unit is equipped with a polypropylene cross-flow heat exchange core.

CERTIFICATION: cCSAus, HVI

ELECTRICAL: 120V/1/60 Hz. 128W, 1.1A

BLOWERS: Two backward curve impellers using PSC motors and permanently sealed bearings.

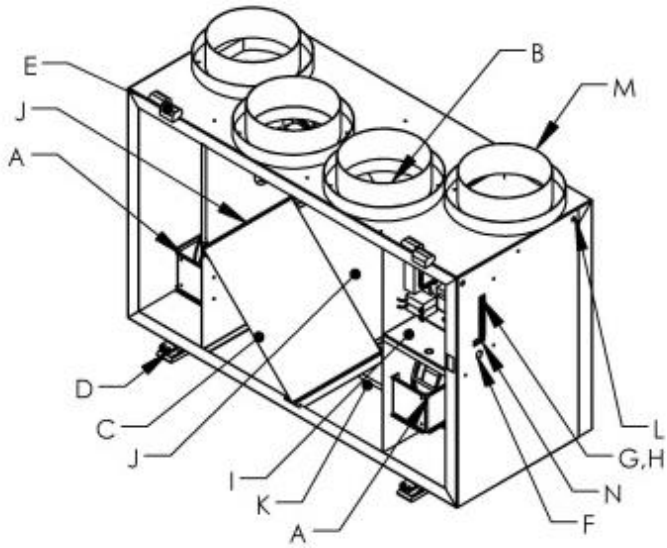
ADDITIONAL FEATURES:

- Furnace interlock options: commands furnace blower when HRV is on or only on high speed.
- Intelligent Defrost: duration and interval adjust to outdoor conditions below -5° C (23° F).
- **In defrost and recirculation modes, this unit will not induce indoor negative pressure nor recycle exhaust air; rather, it will redistribute ambient room air.**
- Balancing: differential pressure ports on doors allow air measurements without flow grid in ductwork. Independent speed adjustment of either supply or exhaust motor in BOTH high and low speed.
- 24 V circuit protection with self resetting fuse.
- Drain, hanger kit featuring buckle-fitted adjustable poly straps, polyester air filters included.
- 12 VDC or 24 V remote control options with the following Nu-Air controls:

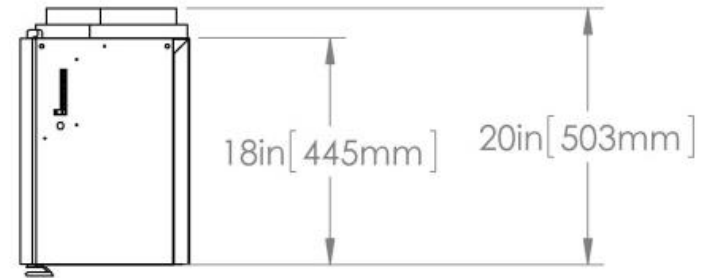
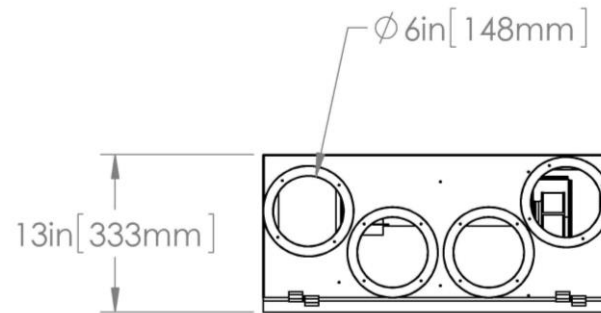
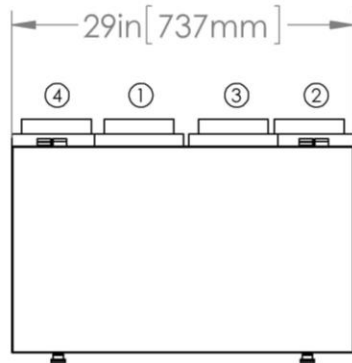
ES Series (12 VDC): Unlimited numbers. Series or parallel.	WINDSOR Series (24 V)
ES-M1: Off/ Stby/ Lo/ Hi ES-M2: Off/ Stby/ Lo/ 20 Lo—40 Stby ES-M3: Off/ Stby/ Lo/ 20 Lo—40 Recirculation ES-M4: Off/ Stby/ Lo/ Recirculation ES-T1: 20-40-60-minute timer ES Lumina (NAV-561): Low speed, high speed, intermittent, recirculation, 20/40 standby/lo, 20/40 recirculation, 20-40-60-minute timer, filter alert	DSTAT-1: Humidity control Win-1: Humidity control/ OFF/ STBY/ Continuous/ Intermittent/ Full-time high speed *WIN-20: 20-minute timer (up to 6), *WIN-20 Gang: for multi-switch gang box Also: Any 24 V, two-wire switch. *Compatible with 12 VDC options.

Defrost: When outdoor temperature falls to -5° C (23° F), an automatic timed defrost cycle is initiated. The exhaust air motor will go to high speed and the fresh air motor will turn off. A damper will shut off the cold exhaust port, directing ambient air through the core for defrosting. Normal operation resumes for a fixed duration, then the processor will read outdoor temperature and initiate defrost as necessary. Defrost varies with outdoor temperature.

Warranty: There is a 5-year warranty on all internal components. The heat recovery core has a lifetime warranty.



NOTES	
A	BACKWARD CURVE, DUAL INLET IMPELLER (2)
B	PROPORTIONAL DEFROST
C	HEAT EXCHANGE CORE - POLYPROPYLENE
D	LATCH (2)
E	HINGE (2)
F	ELECTRICAL CONNECTION – CORD
G	REMOVABLE CONTROL TERMINALS
H	FURNACE INTERLOCK
I	ELECTRICAL BOX
J	FILTERS (2)
K	5/8" DRAIN (1)
L	HANGER MOUNTS (4)
M	DUCT COLLARS 6"
N	INDEPENDENT ELECTRONIC SPEED CONTROL HIGH AND LOW



PORT DESIGNATIONS	
1	OUTSIDE AIR / FRESH AIR FROM OUTSIDE
2	SUPPLY AIR / FRESH AIR TO SPACE
3	RETURN AIR / EXHAUST AIR FROM SPACE
4	EXHAUST AIR / EXHAUST AIR TO OUTSIDE