

Model: ES160E (ERV)

VENTILATION PERFORMANCE

ENERGY PERFORMANCE

EXT.									
STATIC	NET SUPPLY	GROSS	AIR FLOW	SUPPLY	NET	POWER	SENSIBLE	APPARENT	NET
PRESSURE	AIR FLOW	SUPPLY	EXHAUST	TEMP.	AIR FLOW	CONSUMED	RECOVERY	SENSIBLE	MOISTURE
in wg (Pa)	cfm (I/s)	cfm (l/s)	cfm (l/s)	°F (°C)	cfm (I/s)	Watts	EFFICIENCY	EFFECTIVENESS	TRANSFER
0.1 (25)	153 (72)	159 (75)	153 (72)						
0.2 (50)	140 (66)	145 (69)	143 (68)	+32 (0)	63 (30)	60	74	84	0.74
0.3 (75)	126 (60)	132 (62)	132 (62)	+32 (0)	114 (54)	100	68	77	0.70
0.4 (100)	113 (53)	118 (55)	120 (57)						
0.5 (125)	98 (46)	102 (48)	108 (51)						
0.6 (150)	81 (38)	85 (40)	97 (46)	95 (35)	65 (31)	60	48*	72	0.45
0.7 (175)	62 (29)	64 (30)	89 (42)						
0.8 (200)	38 (18)	40 (19)	83 (39)	*Total Red	covery Effic	iency (TRE)			

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 an enthalpy cross-flow heat exchange core.





CERTIFICATION: cUS,CSA, HVI. Meets ASHRAE 62.2 requirements.

ELECTRICAL: 120V/1/60 Hz. 127W, 1.0 A

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

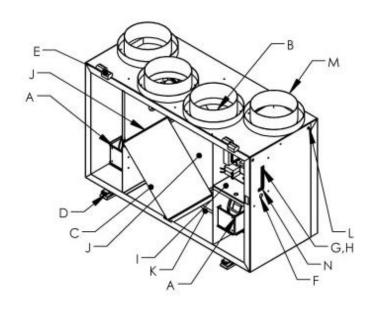
ADDITIONAL FEATURES:

- > 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:

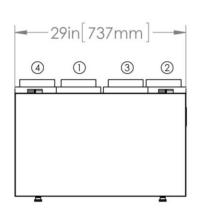
ES Series (12 VDC): Unlimited numbers. Series or parallel.	WINDSOR Series (24 V)
ES-M1: Off/ Stby/ Lo/ Hi	DSTAT-1: Humidity control
ES-M2 : Off/ Stby/ Lo/ 20 Lo—40 Stby	Win-1: Humidity control/ OFF/ STBY/
ES-M3: Off/ Stby/ Lo/ 20 Lo—40 Recirculation	Continuous/ Intermittent/ Full-time high speed
ES-M4: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

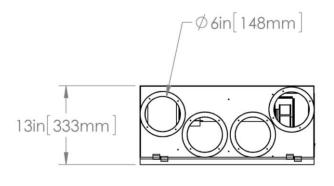
Defrost: When outdoor temperature falls to -5° C (23° F), an automatic timed defrost cycle is initiated. The exhaust air motor will go to high speed and the fresh air motor will turn off. A damper will shut off the cold exhaust port, directing ambient air through the core for defrosting. Normal operation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

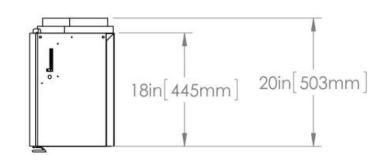
Warranty: There is a 5-year warranty on all internal components. The heat recovery core has a 5-year warranty.



	NOTES					
Α	BACKWARD CURVE, DUAL INLET IMPELLER (2)					
В	PROPORTIONAL DEFROST					
С	HEAT EXCHANGE CORE - TOTAL					
D	LATCH (2)					
E	HINGE (2)					
F	ELECTRICAL CONNECTION – CORD					
G	REMOVABLE CONTROL TERMINALS					
Н	FURNACE INTERLOCK					
1	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	