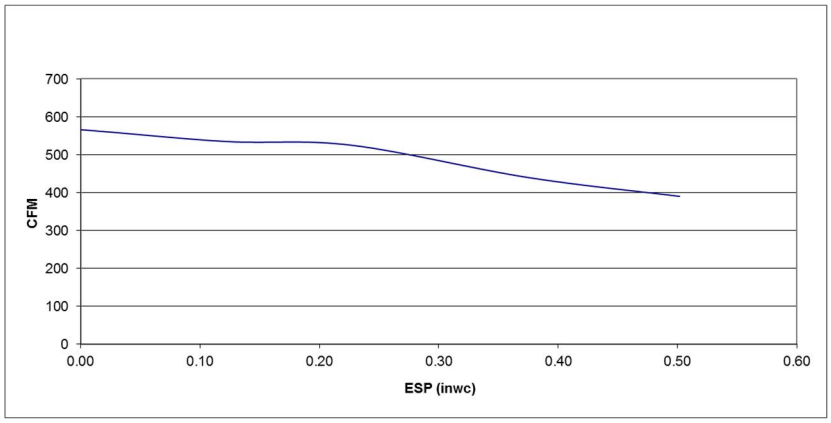
NU600 ERV PRODUCT INFORMATION SHEET



APPROVALS:
Conforms to UL Std 1812 Certified to CSA Std C22.2 No. 113,

CABINET .050 pre-painted white aluminum with 1" foil faced fiberglass insulation.

ENERGY RECOVERY CORE: Polymer membrane enthalpy core – standard**.**

BLOWERS: Forward curve dual inlet centrifugal blowers.

DEFROST OPTIONS

Circulation Defrost: When outdoor temperature is below -5º C (23º F), a defrost cycle is initiated for a fixed duration. The fresh air motor will run and the exhaust air motor will shut down. A damper will shut off the cold supply port, directing ambient air through the core for defrosting. The unit will resume normal operation for a fixed duration, then the processor will read outdoor temperature and initiate defrost as necessary. Defrost times and intervals will vary according to temperature below -5º C (23º F).
NOTE: *In circulation defrost mode, this unit will not induce indoor negative pressure nor recycle exhaust air; rather it will redistribute ambient room air.*
Timed fan shut down defrost - The outside air before the core is monitored. When below freezing, a defrost cycle is activated. The supply fan shuts down while the exhaust fan continues to move warm air through the core. After a predefined temperature based time cycle, the HRV reverts to exchange mode

NU600 ERV	
AIR FLOW	390 cfm @ 0.5 in. w.c. 184 l/s @ 125 Pa
DUCT SIZE (W x H)	14 x 8 in. 356 x 203 mm
CORE SIZE (Lx W x D)	17.5 x 17.5 x 21 in. 444 x 444 x 520 mm
CABINET SIZE (L x H x D)	42 x 30 x 23 in. 1067 x 762 x 584 mm
BLOWERS	RF4C
WATTS	500
VOLTS	115/230
TOTAL FL AMPS	4.5/2.2
RPM/SPEEDS	1275/2
WEIGHT	180 lb (81 kg)

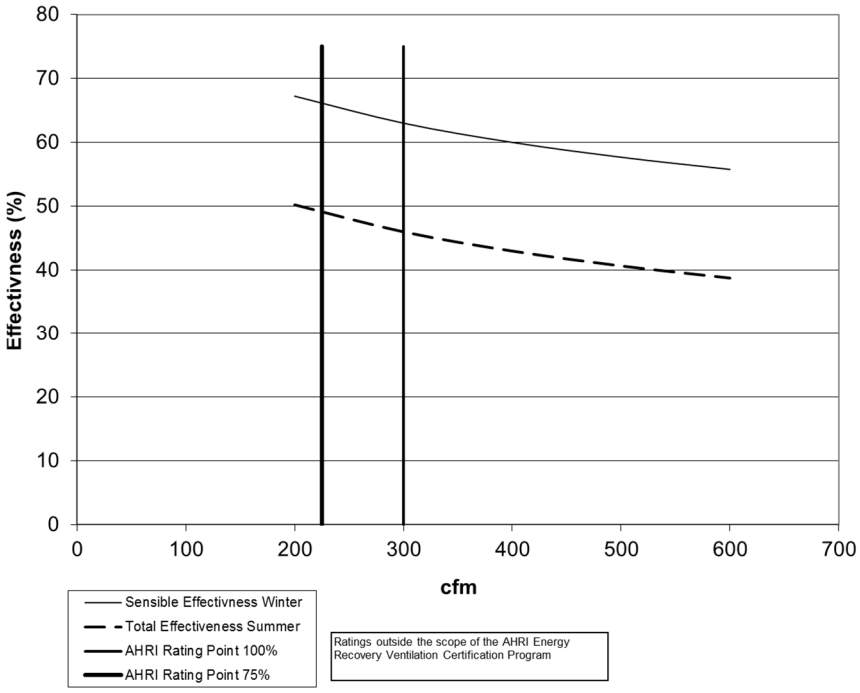
ADDITIONAL FEATURES:
Fan interlock options: interlocks in Hi and Lo speeds or Hi speed only.
Intelligent defrost adjusts to outdoor conditions below -5º C (23º F)
Independent speed adjustment of either supply or exhaust motor in BOTH high and low speed
24V circuit protection with self-resetting fuse
Drain, hanger kit, MERV 8 included 16"x20"x1

12 VDC **AND/OR** 24 V connection for remote control with mechanical switch or the following Nu-Air controls:

12VDC controls available	24 V controls available
Lumina digital control with dehumidistat, timer functions and filter change indicator **ES-M1**: Off/ Stand-by / Lo/ Hi **ES-M2**: Off/ Stand-by / Lo/ 20 Lo-40 Standby **ES-M3**: Off/ Stand-by / Lo/ 20 Lo-40 Recirculation **ES-M4:** Off/Stand-by/Recirculation **ES-T1**: 20-40-60-minute timer	Any Dry Contact Switch **DSTAT-1**: Humidity control **Win-1**: Humidity control/ OFF/ STBY/ Continuous/ Intermittent/ Full-time high speed **WIN-20**: 20-minute timer (up to 6)

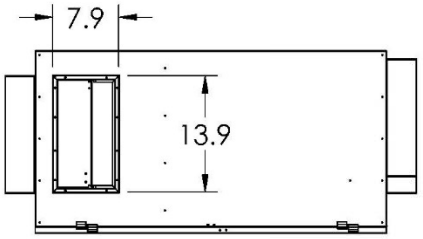
WARRANTY: Subject to applicable consumer protection legislation Nu-Air Ventilation Systems Inc. warrants that the unit will be free from defective materials and workmanship for a period of two (2) years provided installation is in accordance with the instructions. There is a 15-year warranty on plastic cores, and a 5-year warranty for polymer enthalpy cores.

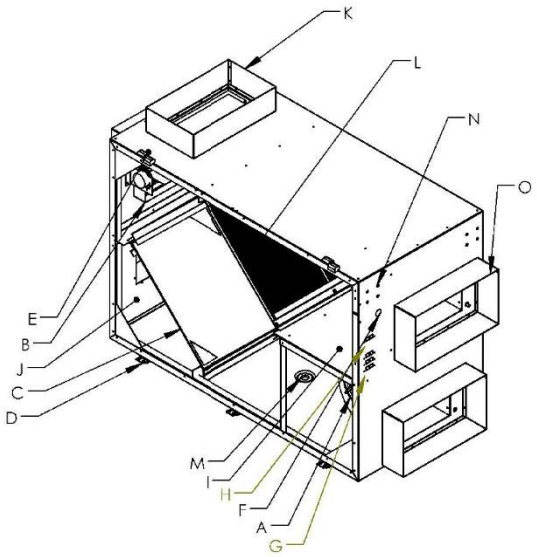
NU600 ERV Efficiency



Model no.	EC-18		
Type	Plate		
Nominal Air Flow (scfm)	300		
Pressure drop (inches)	0.33		
Leakage Ratings	Diff. Pressure	EATR %	OACF
Test 1	-0.5	5	0.92
Test 2	0	0.8	1.07
Test 3	0.5	0.5	1.2
Thermal Effectiveness Ratings at 0" Pressure Differential			
	Sensible	Latent	Total
100% air Flow Heating	63	47	58
75% air Flow Heating	66	49	60
100% air Flow cooling	63	36	46
75% air Flow Cooling	66	39	49
	Net Sensible	Net Latent	Net Total
100% air Flow Heating	63	47	57
75% air Flow Heating	66	49	60
100% air Flow cooling	63	35	46
75% air Flow Cooling	66	39	49

Energy recovery component is certified by AHRI to AHRI Standard 1060. Actual performance in packaged equipment may vary.





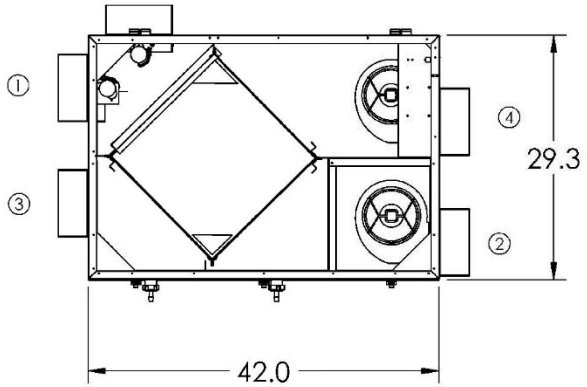
FEATURES	
A	FORWARD CURVE, DUAL INLET IMPELLER (2)
B	DEFROST SWITCH
C	HEAT EXCHANGER CORE - SENSIBLE OR TOTAL
D	LATCH (3)
E	HINGE (3)
F	ELECTRICAL CONNECTION -HARD WIRRED
G	CONTROL TERMINALS
H	FURNACE INTERLOCK
I	ELECTRICAL BOX
J	
K	DEFROST AIR DAMPER AND COLLAR -OPTIONAL
L	FILTERS (2)
M	5/8" DRAINS (2)
N	HANGER MOUNTS (4)
O	DUCT COLLARS 14X8

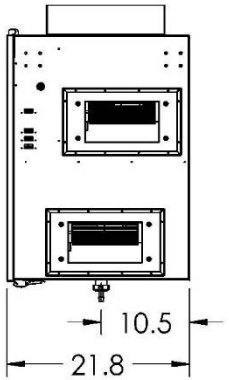
DEFROST OPTIONS:

F - FAN SHUT DOWN, EXHAUST ONLY, TEMPERATURE ACTIVATED, TIMED CYCLE. FOR MODERATE WINTER TEMPERATURES WHERE SOME NEGATIVE BUILDING PRESSURE IS ACCEPTABLE.

D - CIRCULATION DEFROST, NO EXHAUST, CIRCULATION OF ROOM AIR, TEMPERTURE ACTIVATED, TIMED CYCLE. FOR COLD WINTER TEMPERATURES AND/OR WHERE BUILDING PRESSURE MUST REMAIN NEUTRAL.

IN BOTH CASES THE TIME CYCLE IS PROPORTIONAL TO OUTSIDE AIR TEMPERATURE





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
5	DEFROST AIR

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: BEND ±1°
TWO PLACE DECIMAL ±0.01
THREE PLACE DECIMAL ±0.001

MATERIAL

PROJECT: NU600

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	---	16/03/2012

MODEL INFORMATION:
Model Name:
NU600
Model Revision Level:
AC
Drawing Revision Level:
AA

nu-air
Sustainability Through Innovation

TITLE:

NU0406 SHOP DWG

SIZE	DWG. NO.	REV
A	70100	AC

SCALE: 1:20 | WEIGHT: | SHEET 1 OF 2

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