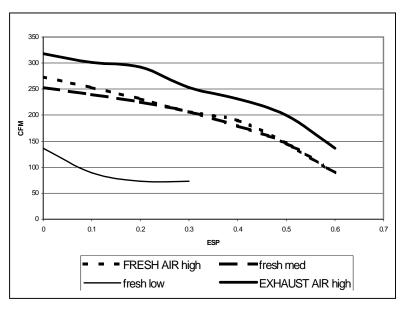
## NU305 HRV PRODUCT INFORMATION SHEET



### **DEFROST OPTIONS**

**Circulation Defrost:** When outdoor temperature is below -5° C (23° 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 -5° C (23° 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.

#### **ADDITIONAL FEATURES:**

Fan interlock options: interlocks in Hi and Lo speeds or Hi speed only. Intelligent defrost adjusts to outdoor conditions below -5° C (23° 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, polyester air filters included 13.5"x14"x0.5"

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

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

<u>WARRANTY:</u> 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, 15 year warranty on plastic cores.

#### **APPROVALS:**

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



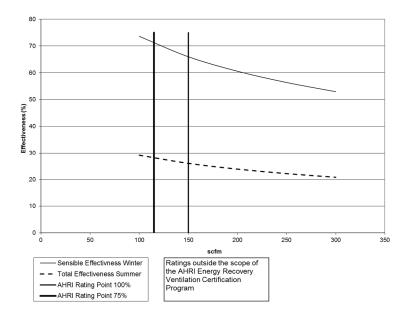
<u>CABINET:</u> The case is **Intertek** constructed of .050 prepainted white aluminum. The cabinet if fully insulated with 1" foil faced fiberglass insulation.

**HEAT EXCHANGER CORE:** The core is polypropylene.

**<u>BLOWERS</u>**: Two forward curve, dual inlet impellers using permanently sealed bearings.

| AIR FLOW                | 292 cfm @ 0.2 in. w.c. |
|-------------------------|------------------------|
|                         | 137 l/s @ 100 Pa       |
| DUCT SIZE               | 8 in. dia              |
|                         | 203 mm                 |
| CORE SIZE               | 14 x 14 x 14 in.       |
| $(L \times W \times D)$ | 356 x 356 x 356 mm     |
| CABINET                 | 36 x 23 x 17 in.       |
| SIZE                    | 914 x 584 x 432 mm     |
| $(L \times H \times D)$ |                        |
| WATTS                   | 170                    |
| VOLTS                   | 115                    |
| WEIGHT                  | 50lb/23 kg             |
|                         | _                      |

# **NU305 HRV EFFICIENCY**





| Model no.               | PC 14 |
|-------------------------|-------|
| Туре                    | Plate |
| Nominal Air Flow (scfm) | 150   |
| Pressure drop (inches)  | 0.19  |

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

| Leakage Ratings | Diff. Pressure | EATR % | OACF |
|-----------------|----------------|--------|------|
| Test 1          | -0.5           | 0.00   | 1.00 |
| Test 2          | 0              | 0.00   | 1.00 |
| Test 3          | 0.5            | 0.00   | 1.00 |

| Thermal Effectiveness Ratings at 0" Pressure Differential |              |            |           |  |
|---|--------------|------------|-----------|--|
| Thermal Lifectiveness                                     | Sensible     | Latent     | Total     |  |
| 100% air Flow Heating                                     | 66           | 0          | 43        |  |
| 75% air Flow Heating                                      | 70           |            | 46        |  |
| 100% air Flow cooling                                     | 64           | 0          | 30        |  |
| 75% air Flow Cooling                                      | 69           | 0          | 31        |  |
| ron an rien deemig  | Net Sensible | Net Latent | Net Total |  |
| 100% air Flow Heating                                     | 66           | 0          | 43        |  |
| 75% air Flow Heating                                      | 70           | 0          | 46        |  |
| 100% air Flow cooling                                     | 64           | 0          | 30        |  |
| 75% air Flow Cooling                                      | 69           | 0          | 31        |  |

