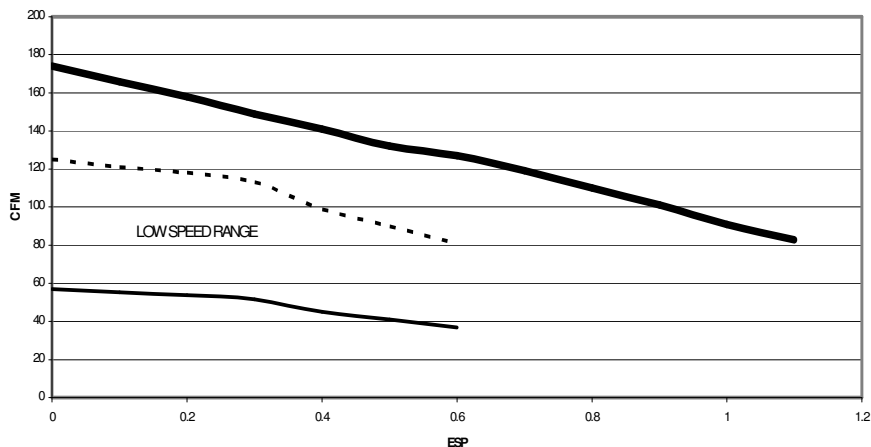


# NU-AIR

VENTILATION SYSTEMS INC.  
MANUFACTURER OF HEAT AND ENERGY RECOVERY VENTILATORS

## OP176 PRODUCT INFORMATION SHEET



**CABINET:** The case is constructed of 0.032 painted aluminum with a white enamel finish. The cabinet is fully insulated with 1" foil faced fibreglass insulation.

**HEAT EXCHANGER CORE:** The core is aluminum plate or enthalpy.

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

**CERTIFICATION:** HVI, CSA C22.2

**DEFROST:** The cycle is activated when the supply air temperature goes below 0 C. At this temperature two rear dampers immediately open while simultaneously closing off the outdoor supply and exhaust ports. Room air enters the supply side of the core and exits the warm supply port. Room air simultaneously enters the warm exhaust port, passes through the core and vents the air back into the room. This is followed by 36 minutes of normal operation and repeats as needed. At no time is the system introducing negative pressure in the building. The two back ports (defrost in and defrost out) can be ducted to other areas of the space and can offer many unique air movement solutions. One common approach is to duct the "defrost intake" to a room with a wood stove or fireplace to help circulate that heat from that area to other rooms in the space. Alternately the rear ports can be left unducted with only a grill covering to draw from and exhaust to the mechanical room.

### **ADDITIONAL FEATURES:**

- Microprocessor based fuzzy logic
- 24 V connection for remote 20 minute timers (Max. 6)
- Continuous/intermittent/recirculation modes
- EASY-LOC furnace interlock
  - NO isolation relay required
  - Two operation modes available
- Low speed adjustment range approximately 40-70% of high speed
- 24V circuit protection with self resetting fuse
- Drain and hanger kit included
- Filter change light w/Optima control
- EN-MISER motor speed control balancing system
- INTELLI-TEMP automatic "summer" and "arctic" operating modes for maximum comfort and reliability
- EVEN-AIR 6 port defrost/comfort system

AIR FLOW	141 cfm @ 0.4 in. w.c. (67 l/s @ 100 Pa)
DUCT SIZE	6" Ø (150 mm Ø)
CORE SIZE (L x W x D)	11x11x14 in. 280x280x356mm
CABINET SIZE (L x H x D)	29x19x16 in. 737x483x406 mm
WATTS	180
VOLTS	115
EFFICIENCY*	76%

\* Apparent Sensible Effectiveness (32 l/s, -25C)

**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 eight (8) years provided installation is in accordance with the instructions. Lifetime core warranty.

Note: Nu-Air reserves the right to change specifications without notice.