

MODEL ERV200HC ENERGY RECOVERY VENTILATOR

FEATURES

BLOWER:

- Fresh and stale air streams are isolated from each other to prevent mixing of stale air with fresh air
- High pressure, centrifugal blower accommodates many ducting configurations
- Balanced centrifugal blower wheels for quiet operation and long motor life
- Built-in dampers for balancing air streams and adjusting air flow
- Permanently lubricated, 120 VAC, 60 Hz, Permanent Split Capacitor (PSC) motor designed for continuous operation
- HVI certified to assure consistent operating performance
- UL listed and CSA certified

HOUSING:

- Rugged steel housing with corrosion-resistant finish
- Installed suspended from ceiling joists
- Built-in defrost mechanism prevents freeze-ups
- Every part is removable in less than five minutes
- 6" round inlets and outlets for easy duct connections
- Flanges on outdoor air stream connections allow for taping insulated ductwork
- All inside surfaces covered with foil-faced thermal/acoustic insulation
- Easily removable, washable air filters
- Built-in 3 foot power cord (2- wire plus ground, NEMA type 15)
- Suspension chain with springs provided to ensure quiet operation
- Built-in drain tube connection

CONTROLS:

- Must use one of the Broan low voltage central controls – Basic (VT1W), Electro (VT2W), or Detector (VT3W)
- Provisions for 24 volt low voltage control

CORE:

- Enthalpic core transfers energy and moisture vapor between incoming and outgoing airstreams for energy recovery and humidity control
- Easily removable for cleaning - no tools required
- Material is U.L. flammability classified 94 HB.

TYPICAL SPECIFICATIONS

The Energy Recovery Ventilator shall be Broan-NuTone Model ERV200HC.

Rated air flow shall be 201 cfm at 0.4 in. wg.

Unit to include easily-removable total energy recovery core - no tools should be required to remove.

Fresh air and stale air streams to be isolated from each other to prevent mixing of stale air with fresh air.

Built-in dampers to be provided for balancing air streams and adjusting air flow.

Built-in defrost mechanism to be provided to prevent freeze-ups.

Provisions for mounting the unit to the ceiling joists to be provided.

Every part shall be removable in less than five minutes.

All interior surfaces to be covered with foil-faced thermal/acoustic insulation.

Unit shall include easily removable, washable air filters. No tools are to be required for filter cleaning/replacement.

Unit to include a 3 foot built-in power cord.

The unit shall be controlled by a central control and include provisions for low voltage remote boost switches.

Unit to accommodate 6" round, insulated duct. Taping flanges on outdoor air stream connections shall be provided.

Blower shall be designed for continuous operation using a plug-in, permanently lubricated, PSC (Permanent Split Capacitor) motor and balanced centrifugal blower wheels.

Unit to be UL listed, CSA certified, and HVI certified.



Broan-NuTone LLC, A Nortek Company, Hartford, Wisconsin 53027

REFERENCE	QTY.	REMARKS	Project
			Location
			Architect
			Engineer
			Contractor
			Submitted by
			Date

PERFORMANCE RATINGS

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Option Installed: Defrost

Electrical Requirements:

120 Volts 1.9 Amps

Exhaust Air Transfer Ratio:

0.06 @ 50 Pa/0.2 in. wg

Low Temp. Vent Reduction Factor:

0% Supply 0% Exhaust

Low Temp. Imbalance Factor: 1.0

VENTILATION PERFORMANCE							
External Static Pressure		Net Supply Air Flow		Gross Air Flow			
				Supply		Exhaust	
Pa	in. wg	L/s	cfm	L/s	cfm	L/s	cfm
25	0.1	109	231	116	245	128	271
50	0.2	107	228	114	241	123	260
75	0.3	101	214	107	227	118	249
100	0.4	95	201	101	213	110	233
125	0.5	86	182	91	193	103	217
150	0.6	79	167	83	177	92	195
175	0.7	62	132	66	140	81	172
200	0.8	40	85	43	90	55	116

ENERGY PERFORMANCE								
	Supply Temperature		Net Air Flow		Power Consumed (Watts)	Sensible Recovery Efficiency (%)	Apparent Sensible Effectiveness (%)	Latent Recovery Moisture Transfer
	°C	°F	L/s	cfm				
Heating	0	32	52	110	93	69	76	0.45
	0	32	74	157	130	64	71	0.38
	0	32	96	203	193	60	68	0.30
	-15	5	52	110	122	55	76	0.26
Cooling	35	95	50	106	89	TOTAL RECOVERY EFFICIENCY 41		

