

Energy Recovery Ventilators

3160 & 3220



Products that let you
breathe
a little easier

Features

- 2 operating modes (Intermittent and Continuous Ventilation)
- Variable speed
- Proportional defrost (Patent Pending)
- ISF™ 6" (dia.) collar system
- 10-year limited warranty* on ventilation motors
- 5-year limited warranty on the energy recovery core
- 5-year limited warranty on all other components

Why is our system the best?

Features

- Selection of controls
- Selection of filters and accessories
- Compact installation
- DuoTrol™ balancing system (patent pending)
- Sloped drain pan
- "Push Through" design
- Backward inclined motor blades
- Permanent lubrication of PSC motors
- Door opens upward
- No obstruction around the drain pan
- Simple electronic control
- Auxiliary connecting relays
- 10-year limited warranty on the ventilation motors
- Easy access to the control connection box
- ISF™ 6" (dia.) collar system (patent pending)
- SPM attachment system

Benefits

- Operating flexibility
- Better air quality
- Maximizes your space
- Silent and economical
- Eliminates bacteria-producing stagnant water
- Better performance
- Maintenance-free bearings
- Easy access
- Easy to clean
- Easy to operate
- No relay necessary
- Reliable and trouble-free
- Peace of mind
- Quick and simple to install
- Variable settings

Enthalpic Heat Exchanger Core

operation system

The illustrations show the operation of a GENERALAire HRV system. Outside air is pushed through the heat exchanger, which acts as a noise attenuator. This process is very silent and provides you with better home comfort.

The recirculation mode takes already-heated ambient air from a selected area, recirculates it through the unit's filters, and distributes throughout your home. This option enables the unit to have an auxiliary air supply during the system's defrost period in winter and offers you better air quality without unpleasant odors.



German Engineered motors

All GENERALAire Energy Recovery Ventilators are designed with high-performance and reliable motors for your comfort and peace of mind. Factory sealed and dynamically balanced, our motors are maintenance-free for years to come.



ISF™ collar system

Quick and simple to install thanks to our revolutionary "Insert Slide and Fix™" collar system. The ISF™ 6" (dia.) collar system enables you to manipulate duct within your reach and then insert the collar to the ERV by sliding it in place, for a better and quicker installation.



SPM™ attachment system

The entire line of GENERALAire HRV/ERV products is designed for installation by a single person. "Single Person Mounting™" will enable you to save time and effort by offering you a variable attachment system and maximizing your basement space.



DuoTrol™ balancing system

Silent and economical... By reducing motor speed to balance the unit, you avoid the noise that would be produced by balancing dampers. In addition, with this technology the unit will consume less energy.



GENERALAire
Fresh Indoor Air Quality

Climate control technology for healthier indoor air.

Easy Access

Removable top hinge door



Peace of Mind

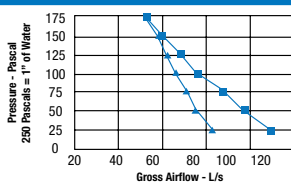


GENERALAire HRV/ERV units are backed by the best limited warranty in the industry, for your peace of mind.

You benefit from a 5-year warranty on the core, a 10-year warranty on our ventilation motors and a 5-year warranty on all other components. So you can breathe easy.

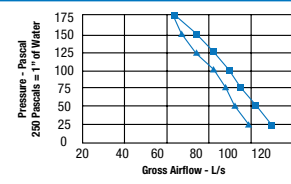
Ventilation Performance 3160

External Static Pressure	in. W.C.	Net Supply Air Flow		Gross Air Flow			
		L/s	CFM	Supply L/s	Supply CFM	Exhaust L/s	Exhaust CFM
25	0.1	82	174	83	175	109	231
50	0.2	77	163	77	164	98	207
75	0.3	73	154	73	154	88	187
100	0.4	67	142	67	143	77	163
125	0.5	61	130	62	131	68	144
150	0.6	57	122	58	122	60	128
175	0.7	52	110	52	111	56	118



Ventilation Performance 3220

External Static Pressure	in. W.C.	Net Supply Air Flow		Gross Air Flow			
		L/s	CFM	Supply L/s	Supply CFM	Exhaust L/s	Exhaust CFM
25	0.1	97	206	98	208	115	244
50	0.2	92	195	93	197	103	218
75	0.3	87	184	88	186	98	208
100	0.4	83	176	83	176	90	191
125	0.5	75	159	75	159	82	174
150	0.6	69	146	69	146	74	157
175	0.7	64	136	64	136	64	136



Energy Performance 3160

Model: PE 5100-10H-12S-0.10
Dimension: 12" x 12" x 10"

Performance in cooling mode (%) @ 35°C (95°F)/50%rh and 24°C (75°F)/50%rh

	30 L/s	42 L/s	55 L/s	55 L/s	75 L/s	85 L/s	
Sensible	70	66	61	Sensible	68	63	61
Latent	45	38	32	Latent	42	35	32
Total	53	47	42	Total	51	44	42

Performance in heating mode (%) @ 0°C (32°F)/75%rh and 22°C (71°F)/40%rh

	30 L/s	42 L/s	55 L/s	55 L/s	75 L/s	85 L/s	
Sensible	74	70	65	Sensible	72	67	65
Latent	49	41	35	Latent	46	38	35
Total	65	60	55	Total	63	57	55

Pressure drop (Pa) 38 53 70 Pressure drop (Pa) 45 62 70

Specifications

	3160	3220
Size	23-7/8" x 21-1/2" x 11-3/8"	23-7/8" x 21-1/2" x 16-1/2"
Heat exchanger (L x H x W)	12" x 12" x 10"	12" x 12" x 15"
CFM	30 to 160	50 to 220
Type of heat exchanger	cross-flow (Enthalpic)	cross-flow (Enthalpic)
Exchange surface	85 ft ²	127 ft ²
Voltage	120 VAC @ 60 Hz	120 VAC @ 60 Hz
Amperage	1.5 A	1.5 A
Defrost type	Evacuation	Evacuation
Certification	ARI 1060, cCSA _{US}	ARI 1060, cCSA _{US}

Important Information

- All GENERALAire products are backed by the best limited warranty on the market.
- GENERALAire reserves the right to modify a product, without prior notice, whether in design, color or specifications, in order to offer at all times a quality product that is highly competitive.
- Please consult local authorities to find out whether the installation of electrical products requires the services of a certified technician or electrician.

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Proportional Defrost operation system

The defrost energy is controlled by the outdoor air temperature. The motor speed essentially increases as outdoor temperature drops to provide increased defrost capacity. For instance, at 23°F the defrost mode will function at low speed. This technology reduces energy usage by eliminating unnecessary defrost energy during milder days and offers a more silent operation.



Sloped Drain Pan drainage system

GENERALAire HRV/ERV units are equipped with an easy-access sloped drain pan, so that excess condensation that might accumulate inside the unit goes to the center of the drain pan to be evacuated.



ERV Accessories

The entire range of GENERALAire controls is offered with features making your ventilations system simple, easy to operate and backed by a 5-year limited warranty.

DC1 Control

- Dehumidistat to select the humidity level.

TR3 Timer Control

- 20/40/60 Minute exchange

DC4E Elite Control

- Dehumidistat to select the humidity level.
- Speed Control (Off, Normal and Reduced)
- Mode Control (Intermittent and Continuous Ventilation)
- Cycles per hour (0/0, 20/40 and 30/30)
- Light On Override
- Maintenance Light Reminder



TR3 Timer Control



DC4E Control



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