Fresh Air Systems - 130 CFM

	ERV
Top ports:	B130E65RT
Side ports:	B130E65RS

35 to 131 CFM @ 0.2 in. w.g.
35 to 119 CFM @ 0.4 in. w.g.

Parts/Motor/ERV Core

Visit www.broan-nutone.com for complete warranty text.

Introducing the industry's most advanced residential fresh air system, created to offer a universal platform specifically designed and improved to make contractors life easier and more profitable while delivering constant superior air quality.

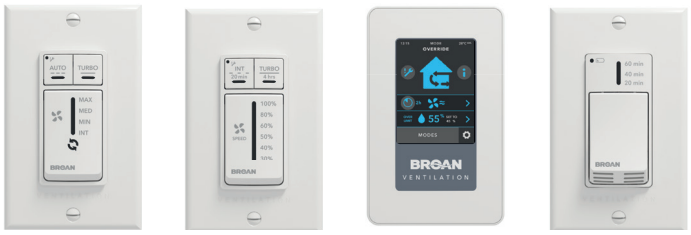
- Thanks to the Virtuo Air Technology™, the airflow calibration and auto-balancing are achieved quickly and maintained throughout the life of the product
- Select the desired CFM (from 35 to 130 CFM) using the very first integrated LCD screen. The airflow is then set up automatically
- Integrated electronic airflow measurement device with real time LCD
- Integrated diagnostic tool
- Equipped with PMSM ECM motors for a very low power consumption
- Suspended installation (chains included)
  OR
- Wall-mount installation (universal brackets included)
  - installation with 2 brackets
  - installation with 4 brackets

Unit Description

- SRE of 67% at 32°F and 56% at -13°F (64 CFM)
- Ports size: 5"
- Recirculation mode
- Recirculation defrost
- Corrosion resistant galvanized steel door and body
- One-piece molded insulation shell, no air leakage (expanded polystyrene; UL 94 HF-1 certified)
- Virtuo constant airflow and auto-balancing device (patent pending)
- Motorized dampers (no additional backdraft dampers required)
- No drain required
- 6' power cord
- Unit electrical characteristics:
  120 volts, 60 Hz, 2.5 A, 110 W
- Sound: 70.0 dBA at 115 CFM @ 0.4 in. w.g.
  60.1 dBA at 64 CFM @ 0.2 in. w.g.

Controls

AUTOMATIC | SPEED SELECTOR | ADVANCED TOUCHSCREEN | 20-40-60 DELUXE



There are 4 optional main controls and 2 optional auxiliary controls available. Refer to Wall Control specification sheet for more information.

Core

- Polypropylene crossflow core with polymeric membrane and aluminum covers, impact resistant, non washable
- Dimensions: 12" x 12" x 9" (30.5 cm x 30.5 cm x 23 cm)

Filters

- MERV 8 grade washable standard filter (included)
- Optional MERV13 grade filter part no. V24285

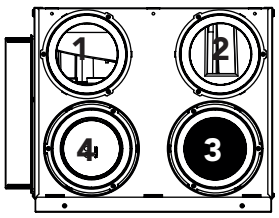
Options

- Complete line of registers and diffusers
- Compatible with the Tandem transition (part no. VTYIK1) (for units producing up to 110 CFM only)

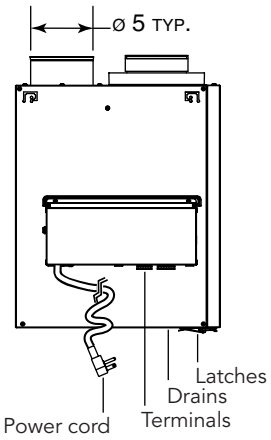
PRODUCT SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

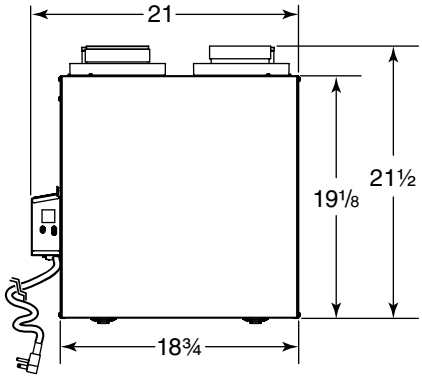
5" Ports Dimensions (Top Ports)

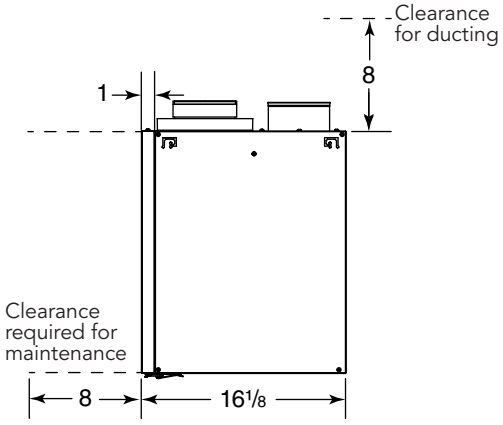
1 - Exhaust air from building
2 - Fresh air to building
3 - Exhaust air to outside
4 - Fresh air from outside



Total assembled weight: approx 37 lbs (16.8 kg) (core included)
Shipping weight: approx 44 lbs (20 kg)

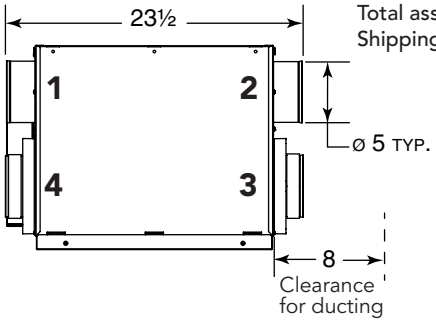




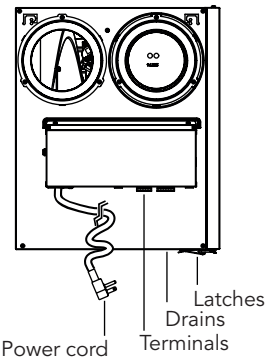


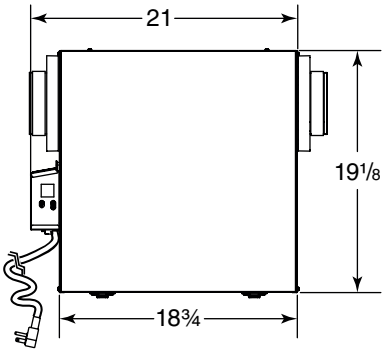
5" Ports Dimensions (Side Ports)

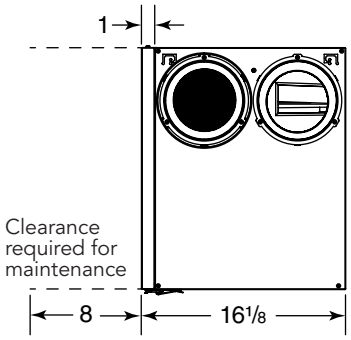
1 - Exhaust air from building
2 - Fresh air to building
3 - Exhaust air to outside
4 - Fresh air from outside



Total assembled weight: approx 37 lbs (16.8 kg) (core included)
Shipping weight: approx 44 lbs (20 kg)



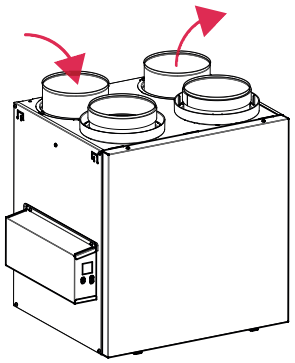




Dimensions shown in inches

Defrost System

Homeshield™ Defrosting System
No negative pressure is created by air exhausted to the outdoors since the air is recirculated into the house, helping to prevent any backdraft.



Discretion (Factory setting)	Outdoor Temperature*					
	-5°C to -15°C 23°F to 5°F		-15°C to -27°C 5°F to -17°F		-27°C and less -17°F and less	
CFM	Air exchange in minutes	Defrost in minutes	Air exchange in minutes	Defrost in minutes	Air exchange in minutes	Defrost in minutes
0 to 59	25	6	14	5	13	7
60 to 104	25	6	15	5	14	7
105 and more	15	6	10	5	9	7
*Outdoor temperature is read by a thermistor located inside the unit, next to fresh air from outdoor port.						

NOTE: There is a 10-minute additional defrost every 5 defrost cycles.

Plus	Outdoor Temperature*					
	-5°C to -15°C 23°F to 5°F		-15°C to -27°C 5°F to -17°F		-27°C and less -17°F and less	
CFM	Air exchange in minutes	Defrost in minutes	Air exchange in minutes	Defrost in minutes	Air exchange in minutes	Defrost in minutes
0 to 59	25	7	14	7	12	8
60 to 104	25	7	15	7	13	8
105 and more	15	7	10	7	9	8
*Outdoor temperature is read by a thermistor located inside the unit, next to fresh air from outdoor port.						

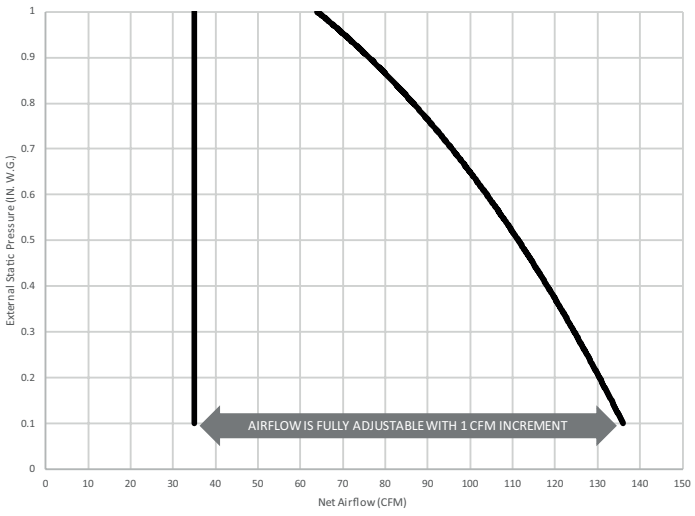
NOTE: There is a 10-minute additional defrost every 5 defrost cycles.

Fan Curves with Virtuo

Thanks to Virtuo Air Technology™, no need to balance the unit manually. Both PMSM motors are controlled by an artificial intelligence performing 120 readings per minute then processing this information to maintain the requested airflow.

For typical installation, Virtuo will ensure a balanced ventilation at every selected speed regardless of the weather conditions, the type of connection, the variable speed furnace/AHU, the stack effect, the filter clogging and so on. This results in peace of mind for installers and users knowing that the unit will always remain balanced and that it will maintain its maximum heat/energy recovery efficiency.

Static Pressure (Pa)	Static Pressure (in. w.g.)	Net Supply Airflow (L/s)	Net Supply Airflow (cfm)	Gross Airflow Supply (L/s)	Gross Airflow Supply (cfm)	Gross Airflow Exhaust (L/s)	Gross Airflow Exhaust (cfm)
25	0.1	64	136	65	138	65	138
50	0.2	62	131	63	133	63	133
75	0.3	58	123	59	125	59	125
100	0.4	56	119	57	121	57	121
125	0.5	53	112	54	114	54	114
150	0.6	49	104	50	106	50	106
175	0.7	45	95	46	97	46	97
200	0.8	41	87	42	89	42	89
225	0.9	36	76	37	78	37	78
250	1.0	30	64	31	66	31	66



Energy Performance

Supply Temperature		Net Airflow		Power Consumed Watts	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency	Latent Recovery / Moisture Transfer	Apparent Sensible Effectiveness*	Total Recovery Efficiency	Adjusted Total Recovery Efficiency
°C	°F	L/s	CFM							
Heating										
0	32	30	64	32	67	70	0.65	72	-	-
0	32	62	131	112	63	69	0.53	71	-	-
-25	-13	30	64	57	56	58	0.62	72	-	-
35	95	33	70	36	-	-	0.54	60	56	58

* Data not certified by HVI.

Requirements and Standards

- UL 1812 compliant (safety)
- Could be installed in compliance with CSA F326
- Performance tested as per CSA C439 Standard
- Complies with ROHS 2015/863 directive
- Compliant with Prop 65
- Can be used to comply with California Title 24 2019 Part 6 Fault Indicator Display Requirements

Project:	Remarks
Location:	
Part no.:	
Qty.:	
Submitted by: Date:	