BROAN

BREAN PRINTED

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 150 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

Fresh Air Systems - 150 CFM



Top ports: B150H75NT Side ports: B150H75NS

35 to 150 CFM @ 0.2 in. w.g. 35 to 140 CFM @ 0.4 in. w.g.







HRV









Parts/Motor HRV Core

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

Unit Description

- SRE of 75% at 32°F and 60% at -13°F (64 CFM)
- Ports size: 5"
- Negative pressure defrost (exhaust defrost)
- Painted door, corrosion resistant galvanized 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)
- Integrated "snap-in" drain system installed in seconds with no additional parts (drain hose included)
- 6' power cord
- Unit electrical characteristics: 120 volts, 60 Hz, 2.5 A, 163 W
- Sound: 73.2 dBA at 141 CFM @ 0.4 in. w.g. 60.1 dBa at 64 CFM @ 0.2 in. w.g.

Controls







ADVANCED



20-40-60

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, impact resistant
 Dimensions: 12" x 12" x 9" (30.5 cm x 30.5 cm x 23 cm)

Filters

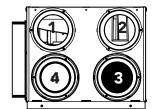
- MERV 8 grade washable standard filter (included)
- Optional MERV13 grade filter part no. V24285

Options

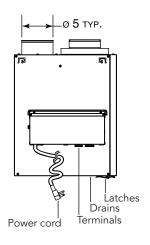
- Complete line of registers and diffusers
- Compatible with the Tandem transition (part no. VTYIK1) (for units producing up to 130 CFM only)

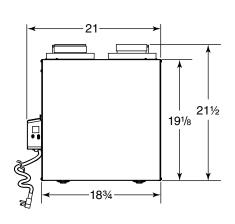
5" Ports Dimensions (Top Ports)

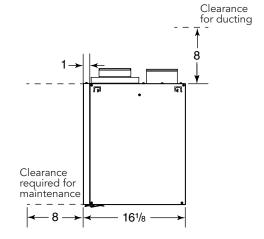
- 1 Exhaust air from building
- 2 Fresh air to building
- 3 Exhaust air to outside
- 4 Fresh air from outside



Total assembled weight: approx 35 lbs (15.9 kg) (core included) Shipping weight: approx 42 lbs (19 kg)

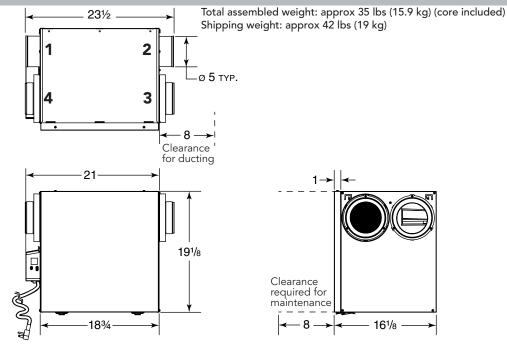


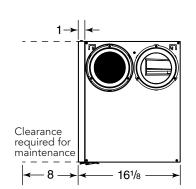




5" Ports Dimensions (Side Ports)

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





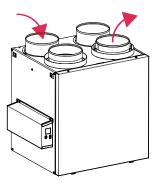
Terminals Power cord

Latches Drains

Defrost System

Defrost by negative pressure (exhaust defrost)

Stale air from building enters in the unit. Air is then exhausted to the outdoors.



	Outdoor Temperature*					
-5°С то -15°С 23°F то 5°F		-15°С то -27°С 5°F то -17°F		-27°C AND LESS -17°F AND LESS		
AIR EXCHANGE IN MINUTES	DEFROST IN MINUTES	AIR EXCHANGE IN MINUTES	DEFROST IN MINUTES	AIR EXCHANGE IN MINUTES	DEFROST IN MINUTES	
35	10	24	9	16	10	
50	10	32	9	20	10	
24 10		18	9	13	10	
	23°F TO 5°F AIR EXCHANGE IN MINUTES 35 50 24	23°F TO 5°F AIR EXCHANGE DEFROST IN MINUTES 10 10 10 10 10 10 10 10 10 10 10 10 10	23°F TO 5°F 5°F TO -17°F	23°F TO 5°F 5°F TO -17°F AIR EXCHANGE DEFROST IN MINUTES AIR EXCHANGE IN MINUTES DEFROST IN MINUTES IN MINUTES	23°F TO 5°F 5°F TO -17°F -17°F AND LE AIR EXCHANGE DEFROST IN MINUTES AIR EXCHANGE IN MINUTES DEFROST IN MINUTES AIR EXCHANGE IN MINUTES IN MINUTES	

'Outdoor temperature is read by a thermistor located inside the unit, next to fresh air from outdoor port.

PLUS	Outdoor Temperature*						
	-5°С то -15° 23°F то 5°F	С	-15°С то -27 5°F то -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	27 10		21	10	14	10	
60 to 90	38	10	27	10	17	10	
91 and more	and more 20 10		16	10	11	10	

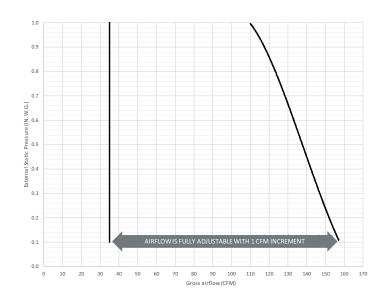
*Outdoor temperature is read by a thermistor located inside the unit, next to fresh air from outdoor port.

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)	1.0Static 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	73	155	74	157	74	157
50	0.2	71	150	72	153	72	153
75	0.3	68	144	69	146	69	146
100	0.4	66	140	67	142	67	142
125	0.5	64	136	65	138	65	138
150	0.6	62	131	63	133	63	133
175	0.7	60	127	61	129	61	129
200	0.8	57	121	58	123	58	123
225	0.9	54	114	55	117	55	117
250	1.0	51	108	52	110	52	110



Energy Performance

SUPPLY TEMPE	rature	Net A	RFLOW	Power	Sensible Recovery Efficiency	Adjusted Sensible Recovery Efficiency	Apparent Sensible Effectiveness*
°C	°F	L/s	CFM	WATTS			
HEATIN	NG						
0	32	30	64	36	75	78	80
0	32	62	131	100	66	71	72
-25	-13	30	64	39	60	61	81

^{*}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
- This product earned the ENERGY STAR® by meeting strict energy efficiency guidelines set by Natural Resources Canada and the US EPA. This product meets ENERGY STAR requirements only when used in Canada.

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





