

BROAN B1600705

Part no. B1600705

from 400 to 700 cfm (0.3 in. w.g.)



LIGHT COMMERCIAL UNIT FOR POOL AND OTHER EXTREMELY HUMID LOCATIONS.

The B1600705 is a multi-purpose Heat Recovery Ventilator designed for the ventilation requirements of residential, commercial and industrial applications. Utilizing a single element cross-flow core, the B1600705 is capable of airflows up to 700 cfm (330 l/s) at standard air pressure. Heat recovery can be matched to the applcation with up to 78% apparent sensible recovery.

- Two metal channels are permanently attached to the bottom of the case to permit easy installation
- High efficiency, direct drive, centrifugal blowers
- Energy efficient 2-speed PSC motors with sealed ball bearings
- Available with FrostBuster[™] defrost system
- Low voltage control circuit for connection of dehumidistat, switches or timers

APPLICATIONS INCLUDE:

Swimming Pools

Silk Screening Shop

Night ClubsFitness Centers

- Veterinary Clinics
- Large Residential Homes

- Town Halls
- Art StudiosHeath Spas
- Commercial Office SpacesMany other indoor spaces

WARRANTY

Subject to any applicable consumer protection legislation, Broan warrants the HRV unit will be free from defective materials and workmanship for a 2-year period and also provides a 15-year warranty on the heat exchange core from the manufacturing date, under normal use, provided that installation is in accordance with the instructions in the installation manual.

REQUIREMENTS AND STANDARDS

- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators.
- Complies with the UL 1812 ducted Heat Recovery Ventilators.

Available at:

HEAT RECOVERY VENTILATOR

Controls

Standards Controls

- Low voltage control circuit for connection of dehumidistat, switches or timers.
- Terminal block and strain relief bushings are provided for connection of 120 VAC.

Optional Controls

VT10W remote wall mounted control, providing **Off - Intermittent** -Low - Circulation modes. Includes dehumidistat for high speed control.

Noise and Vibration Control

- Fan housing are mounted on special vibration isolators and the fan mouth is cushioned by an Evazote gasket.
- Isolation mounts are supplied for either threaded rod hanging or floor frame mounting.



Circulation

• When a VT10W is integrated for control, the circulation mode will allow high speed circulation through the supply side for as long as desired. In this mode the exhaust fan is off and the Frostbuster[™] damper shuts off the fresh air from outside. This setting may be useful during warm seasons, or when air conditioning has been added to the supply ducting.

Defrost

 Broan Frostbuster[™] operates a timed cycle of circulation when outside supply temperature drops below -5°C (23°F).

• Manual circulation is available with the Pool Plus[™] wall control.

Outdoor Temperature	Standard Defrost cycle (IN MINUTES)	Extended Defrost cycle (IN MINUTES)		
	DEFROST/OPERATION	DEFROST/OPERATION		
WARMER THAN -5°C (23°F)	No defrost	No defrost		
-5°С (23°F) то -15°С (5°F)	6/60	10/28		
-15°С (5°F) то -30 °С (-21°F)	6/32	10/28		
-30°C (-21°F) & LESS	6/19	10/15		

Positive Shut-Off of Fresh Air

• By setting the optional remote wall control switch to "Off", the outdoor air will be tightly sealed off by the Frostbuster[™] damper. When combined with an exhaust grille with gravity louvers, total shut-off of outside air during periods of shutdown is possible.

Heat Recovery Core

- Easily removable
- Material: Non corrosive polypropylene UL94V2 rating
- Heat transfer area: 450 ft² (42 m²)
- Maximum exhaust temperature: 150°F (65°C)
- Warranty: 15 years

DIMENSIONS AND SERVICE CLEARANCES: B1600705



Total Effectiveness (Cooling)

Sensible Effectiveness (Heating)

Latent Effectiveness (Heating)

Ratings outside the scope of the ARI Energy Recovery Ventilation Certification Program.

External 0.200 0.100 0.000 200 0 100 300 400 500 600 700 800 Air flow (cfm) VG0098A -High low NOTE: All specifications are subject to change

without notice.

SPECIFICATIONS AND RATINGS

VG0047A



47% (46%)

0% (0%)



100% Airflow Cooling Condition:

Energy recovery component certified in accordance with ARI Standard 1060-2000. Actual performance in packaged equipment may vary.

18% (18%)

Accoustic Noise Power Chart (dBA) at unit ports

Airflow	Fresh air to building port	Exhaust air from building port		
1026 CFM at 0.4 in. w.g.	74.8 dBA	58.5 dBA		
767 CFM at 0.2 in. w.g.	71.5 dBA	56.3 dBA		

Intertek

The data shown on left chart come from measurement performed according to ISO 5136 Standard. These data represent the sound power directly measured at the fresh air distribution port and exhaust air from building port. To get the actual noise level in the room, consider noise attenuation resulting from total ductwork installation.

	www.broan.com		B1600705d190312			
		Broan-NuTone LLC, 926	6 West State S	treet, Hartford	d, WI 53027 (1	-877-862-7626
Submitted by:	Date:					
Quantity:						
Model Number: B1600705						
Location:		-				
Project:			REMARKS			
powder coated finish		1	120	6.63	9.13	330
Cabinet: 20 GA galvanized steel with baked			Volts	MCA	MOP	Watts
on both exhaust and supply sides		Unit electrical characteristics:				
Drains: Continuous molded ABS drain pans				nless steel s		
 All air duct connections: 8" x 14" 		 Energy efficient 2-speed PSC motors with sealed ball bearings, polyurethane paint 				
- Including polypropylene core: 210 lb. (95.25 kg)						
Total assembled weigth:	foam. Supply by a MERV 7 fil	- High efficiency, direct drive, centrifugal blowers				
Part number: B1600705	Filters: Standard, was					
• Model: B1600705	• Insulation: 1" rigid fo	Fans and motors:				