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# BROAN HD80L Owner's Manual

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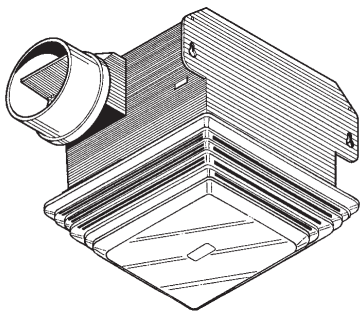
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**MODELS HD50L & HD80L**



**HEAVY DUTY  
FAN/LIGHTS**



**Quiet heavy duty ventilators built with high performance blowers.**

**FEATURES**

**GRILLE:**

- Matte white polymeric - blends well with any decor
- Sturdy light-diffusing lens accepts up to 100W incandescent lamp. Bulb not included.

**BLOWER:**

- Plug-in, permanently lubricated, totally enclosed motor
- Centrifugal blower wheel for quiet, efficient performance
- Long life motor bearings
- Designed for continuous operation

**HOUSING:**

- Rugged, 26-gage galvanized steel construction
- Integral key-holed mounting brackets for easy, secure installation directly to joist
- Provision for wire suspension when installed in a drop ceiling
- Tapered, polymeric duct fitting with built-in backdraft damper for easy, positive duct connection and no metallic clatter

**NOTE:** For installation in ceilings up to 12/12 pitch

U.L. Listed for use in insulated ceilings (Type I.C.)  
U.L. Listed for use over bathubs and showers when connected to a GFCI protected branch circuit  
Use supply wiring rated for at least 90°C

**TYPICAL SPECIFICATION**

Fan/Light unit shall be Broan Model HD50L (HD80L).

Unit shall have galvanized steel housing with integral mounting brackets. Unit shall have built-in backdraft damper and shall be ducted to a roof or wall cap.

Motor to be totally enclosed, permanently lubricated, and have long-life bearings designed for continuous operation. Blower assembly shall have a centrifugal blower wheel and be removable from housing.

Air delivery shall be no less and sound level no greater than valves listed in the "Performance Ratings" charts on this sheet. All air and sound ratings shall be certified by HVI & AMCA licensed.

Unit shall be U.L. Listed for use over bathtubs and showers when connected to GFCI protected branch circuit.

Unit shall be U.L. Listed for use in insulated ceilings (Type I.C.).



Broan-NuTone LLC certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



**Broan-NuTone LLC, 926 West State Street, Hartford, WI 53027 (1-800-637-1453)**

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

# PERFORMANCE RATINGS - MODELS HD50L & HD80L

## AMCA LICENSED PERFORMANCE

Model No.		Static Pressure (in. wg Ps)						Volts	Watts (Fan Only)	Nominal RPM	Duct Size
		0.0	0.1	.125	.250	.375	.500				
HD50L	CFM	62	51	49	32	9		120	30	1070	4" Round
	Sones	1.9	2.0	2.1	2.9	3.2					
HD80L	CFM	97	87	84	69	50	19	120	50	1380	4" Round
	Sones	4.0	4.1	4.1	4.2	4.4	4.3				

The performance ratings include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for Installation Type B: Free inlet fan sone levels. Air performance shown is for Installation Type B: Free inlet, Ducted outlet.

### SONES

Model Number	HVI Sones @ 0.1" Ps*	AMCA Sones @ 0.0" Ps*
HD50L	1.5	1.9
HD80L	2.5	4.0

\*There is a difference between sone values certified by HVI for residential use and by AMCA for commercial/industrial use. Exact comparison of these values is not possible. This difference is mainly due to the procedures used to convert measured sound to perceived sound. ANSI S3.4, used by both HVI and AMCA, specifies a procedure for calculating loudness as perceived by a typical listener under specific conditions. HVI establishes values at a distance of 5 feet from the fan in a "spherical free field"; AMCA establishes values at a distance of 5 feet in a "hemispherical free field". HVI and AMCA have different rules for rounding sone values.

### HVI PERFORMANCE

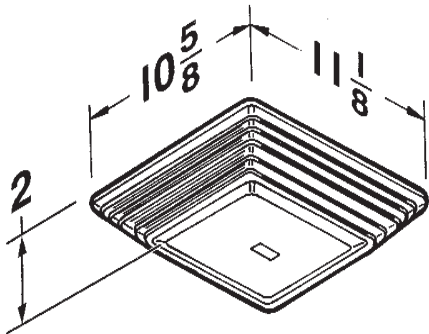
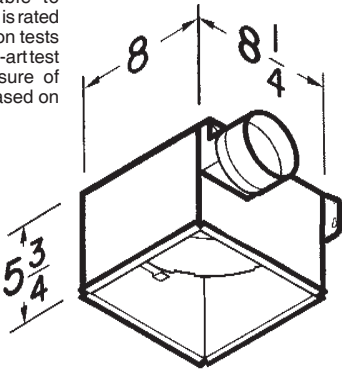
MODEL NUMBER	SONES	CFM @0.1" Ps
HD50L	1.5	50
HD80L	2.5	80



HVI-2100 CERTIFIED RATINGS comply with new testing technologies and procedures prescribed by the Home Ventilating Institute, for off-the-shelf products, as they are available to consumers. Product performance is rated at 0.1 in. static pressure, based on tests conducted in AMCA's state-of-the-art test laboratory. Sones are a measure of humanly-perceived loudness, based on laboratory measurements.

### WEIGHT

MODEL NO.	SHIPPING WT.
HD50L	7.0 lbs.
HD80L	7.1 lbs.



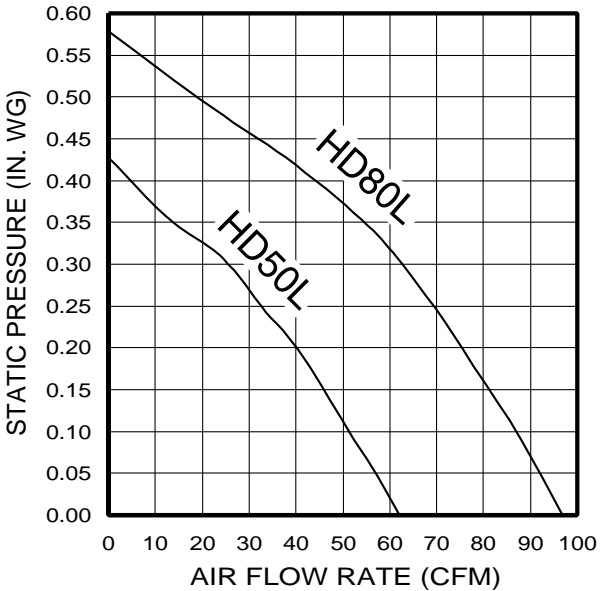
### AMPS

MODEL NUMBER	AMPS**
HD50L	1.2
HD80L	1.5

\*\*Total Connected Load



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