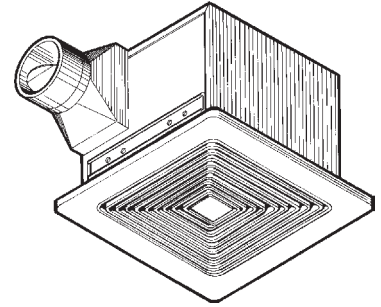


## MODELS S50U, S80U & S110U SOLITAIRE ULTRA-SILENT® VENTILATION FANS



Ultra-quiet high performance fans with a modern-styled, low profile grille.

### FEATURES

#### GRILLE:

- Conceals interior
- Low profile styling blends well with any decor
- Non-yellowing, white polymeric
- Torsion spring mounting - no tools required

#### BLOWER:

- Plug-in permanently lubricated motor
- Dynamically balanced centrifugal blower wheel for quiet, efficient performance
- Low RPM for ultra-quiet performance
- Quick one-screw installation/removal
- Resilient anti-vibrational motor mounts

#### HOUSING:

- Rugged, 26-gage steel construction finished with electrically-bonded epoxy paint
- Tapered, 4" (101.6 mm) round, polymeric duct connector - no metallic clatter
- 7-5/8" (193.7 mm) height allows for 2" (50.8 mm) x 8" (203.2 mm) [nominal] joist installations
- Mounts between joists or directly to joists
- Adjustable mounting brackets span up to 24" (609.6 mm)

### TYPICAL SPECIFICATION

Ventilator shall be Broan Model S50U, (S80U) or (S110U).

Ventilator shall have steel housing with electrically bonded epoxy paint. Mounting brackets to be adjustable. It shall be ducted to a roof or wall cap using 4" (101.6 mm) round ductwork. Automatic back draft damper shall be located within duct connector.

Blower assembly shall be removable, have a centrifugal-type blower wheel and a permanently lubricated motor designed for continuous operation and mounted with resilient anti-vibration mounts.

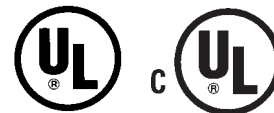
Air delivery shall be no less and sound levels no greater than listed for each model. Air and sound ratings shall be certified by AMCA and HVI. Units shall be UL and cUL listed. Units shall be UL and cUL listed for use in insulated ceilings (Type I.C.) with up to an R40 rating. Units shall be UL & cUL listed for use over bathtubs and showers when connected to a GFCI protected branch circuit.



"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 if sound is also certified) and comply with the requirements of the AMCA Certified Ratings Program"



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.



Broan-NuTone Canada Inc., Mississauga, Ontario, Canada L5T 1H9

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

# PERFORMANCE RATINGS - MODELS S50U, S80U & S110U SOLITAIRE ULTRA-SILENT® VENTILATION FANS

## AMCA LICENSED PERFORMANCE

MODEL	SONES @ 0" (0 mm) Ps	CFM (L/s) Static Pressure in. (mm) wg					Volts	Hz	Watts	RPM	Duct Size (mm)
		0" (0)	0.1" (2.5)	0.125" (3.2)	0.250" (6.4)	0.375" (9.5)					
S50U	0.7	73 (34)	55 (26)	47 (22)	13 (6)	-	120	60	51	820	4" (102)
S80U	1.6	99 (47)	84 (40)	80 (38)	57 (27)	35 (16)	120	60	80	1000	4" (102)
S110U	2.6	122 (58)	111 (52)	107 (51)	88 (42)	63 (30)	120	60	57	1160	4" (102)

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

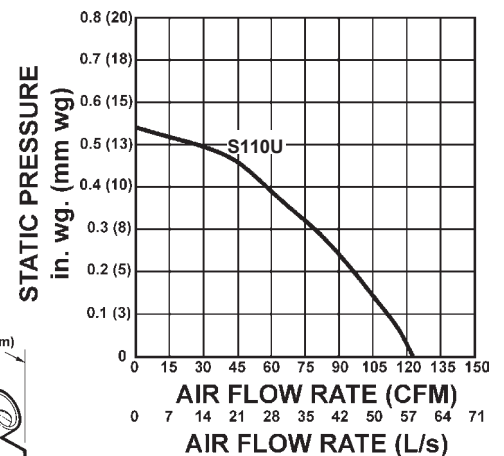
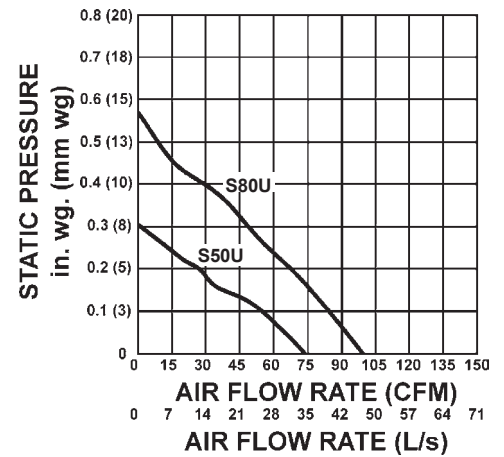
## SONES & AMPS

MODEL	HVI Sones @ 0.1" (2.5 mm) Ps*	AMCA Sones @ 0.0" (0.0 mm) Ps*	AMPS
S50U	0.5	0.7	0.7
S80U	1.0	1.6	1.1
S110U	1.5	2.6	0.7

\*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 ft. (1.5 m) from the fan in a "spherical free field"; AMCA establishes values at a distance of 5 ft (1.5m) in a "hemispherical free field".

## WEIGHT

MODEL	SHIPPING WT. lbs. (kg)
S50U	10 (4.5)
S80U	10 (4.5)
S110U	10 (4.5)



## HVI PERFORMANCE

MODEL	Sones @ 0.1" (2.5 mm) Ps	CFM [L/s] @ 0.1" (2.5 mm) Ps
S50U	0.5	50 [24.0]
S80U	1.0	80 [37.8]
S110U	1.5	110 [51.9]



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