

SAM® MicroSound GS

Specification Sheet

Ideal for Pharmaceutical Companies Gel Seal Style HEPA or ULPA Filter Replaceable From Roomside

SAM MicroSound GS fan filter units are ideal for pharmaceutical companies, manufacturers of medical devices and companies in highly regulated industries. The SAM GS units feature a gel channel on the upstream side of the final filter which provides a leakfree seal between the filter and the housing.

SAM MicroSound GS units feature a HEPA or ULPA filter replaceable from roomside while the filter housing remains in place.

Housings are fabricated from steel with a white powdercoat finish and include seismic clip suspension points.

The energy efficient N310 motor blower is a low watt backward curved impeller, single phase, permanent split capacitor type motor blower assembly with thermal overload protection. Units are available in 115V (60 Hz), 208-230V (50/60 Hz) and 277V (60 Hz).

SAM MicroSound Fan Filter Units include a 99.99% efficient HEPA filter, 30% ASHRAE pleated type prefilter, seismic clip suspension points, safety switch which disables the unit while servicing, and solid state variable speed control with RFI suppression, allowing the airflow to be fine tuned.

Final filters are protected with a white epoxy diamond pattern grille and are tested according to accepted procedures as described by the Institute of Environmental Sciences (IEST) and/or ISO standards. The standard HEPA filter is 99.99% eff. and an ULPA grade 99.9995% eff. filter is available as an option.

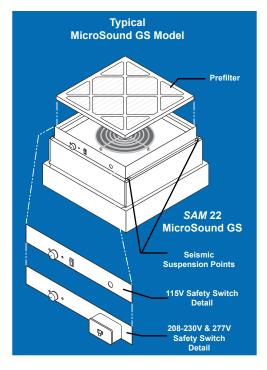
A polystyrene eggcrate grille in an anodized aluminum frame is hinged to open, permitting removal of the filter without removing the unit from the ceiling. Optional perforated stainless steel or aluminum grilles are available.

Other popular options include an 8' power cord (115 Volt only), 99.9995% eff. ULPA grade final filter, UL 900 filters and duct collar adapters. Refer to the back of this section for more options and accessories.

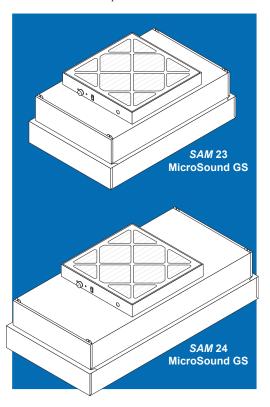
For horizontal flow applications consult with one of our cleanroom experts in your area, or call the factory for more information.



 SAM is a registered trademark owned by Clean Rooms International



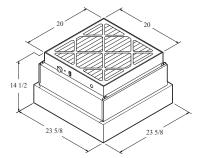
- Energy Efficient Motor: Operating Amps Low As .6 For 277 Volt And 1.6 For 115 Volt
- Safety Switch: Disables Unit While Servicing
- Variable Speed Control: Allows Air Flow To Be Fine Tuned For Room Requirements



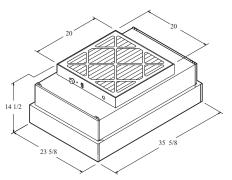


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SAM 22 MicroSound GS



SAM 23 MicroSound GS

GS Style Filter Data: The HEPA Filter is designed for 90 FPM average face velocity @ initial 0.47 w.g. and has a rated efficiency of 99.99% @ 0.3 micron or larger.

An anodized aluminum frame holds the 53mm media which is protected by a diamond pattern white epoxy coated steel grille. Final filters are replaceable from roomside.

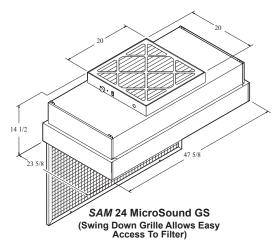
Access Port: This port is located in the center of the filter element face and is used for introducing an upstream challenge or measuring static pressure.

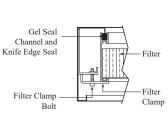
Standard Ceiling Size: All 2' x 4' models are designed to fit a nominal 2' x 4' ceiling grid with a 22.5" x 46.5" standard opening.

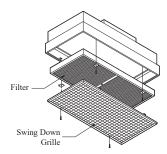
Air Flow: Airflow ranges from 340 to 640 CFM for a 2 x 4 unit and 220 to 340 CFM for a 2 x 2 unit. At 90 FPM, CFM is nominal 510 on a 2 x 4 and 220 on a 2 x 2 unit respectively. Airflow for units running at 50 Hz will be about 20% less.

Sound Level: At average face velocity of 90 FPM measured 30" from face of filter, sound level is approximately 54 dba with less than 45 dba ambient sound level. Field conditions, voltage and method of testing could produce different results.

Popular Options: Refer to next page for a list of popular options.







Filter Clamp Detail

Exploded View

Motor Data										
Motor	Voltage	Hz	Watts	Running Amps	Start-Up Amps					
N310	115	60	185	1.6	4.1					
N310	208-230	50/60	165	0.8-0.7(1)	1.5(2)					
N310	277	60	165	.6	1.5					
(1) Running amps will be less on 50Hz										
(2) Line voltage can affect actual start-up amperage										

Replacement Filters						
Mfg. Code	Description					
302201	2 x 2 GS Style HEPA Filter, 99.99% eff. @ 0.3 micron					
302204	2 x 2 GS Style ULPA Filter, 99.9995% eff. @ 0.12 micron					
302214	2 x 3 GS Style HEPA Filter, 99.99% eff. @ 0.3 micron					
302215	2 x 3 GS Style ULPA Filter, 99.9995% eff. @ 0.12 micron					
302200	2 x 4 GS Style HEPA Filter, 99.99% eff. @ 0.3 micron					
302203	2 x 4 GS Style ULPA Filter, 99.9995% eff. @ 0.12 micron					
302190	Prefilter 20" x 20" x 1", 30% ASHRAE efficient, pleated type					



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Base Model (Ordering Information)											
Mfg. Code	Model or Description	Style	Size	Voltage	Motor	Variable Speed Control	HEPA Filter	Weight			
12800*	SAM 22 MS GS	GS	2 x 2	115	N310	703084	302201	68 lbs. (30.8 kg.)			
12801	SAM 22 MS GS	GS	2 x 2	208-230	N310	703912	302201	68 lbs. (30.8 kg.)			
12802*	SAM 22 MS GS	GS	2 x 2	277	N310	703915	302201	68 lbs. (30.8 kg.)			
12803*	SAM 23 MS GS	GS	2 x 3	115	N310	703084	302214	76 lbs. (34.5 kg.)			
12804*	SAM 23 MS GS	GS	2 x 3	277	N310	703915	302214	76 lbs. (34.5 kg.)			
12805*	SAM 24 MS GS	GS	2 x 4	115	N310	703084	302200	84 lbs. (38.1 kg.)			
12806	SAM 24 MS GS	GS	2 x 4	208-230	N310	703912	302200	84 lbs. (38.1 kg.)			
12807*	SAM 24 MS GS	GS	2 x 4	277	N310	703915	302200	84 lbs. (38.1 kg.)			

^{*} UL Listed

Prefilter and Safety Switch are Standard on all Models