

## Stainless Steel

### All Stainless Steel Construction

Stainless Steel SAM MicroSound Series Fan Filter Units feature housings fabricated from #304 stainless steel with #4 brushed finish.

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.

The blower is a 115 volt low watt AC backward curved impeller, 60hz, single phase, permanent split capacitor type motor blower assembly with thermal overload protection. Other motor and voltage options are 208-230 (50/60 hz) and 277 (60 hz).

NCR Style final filters feature a stainless steel frame and are protected with a stainless steel round perforated grille on the downstream side.

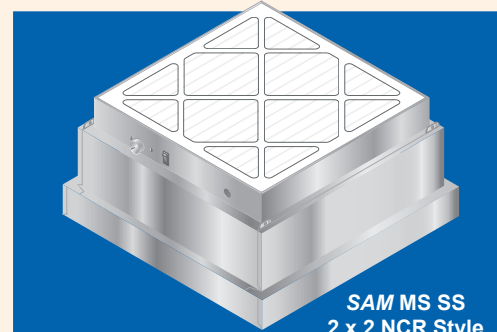
SAM GS Fan Filter Units feature a HEPA or ULPA filter replaceable from roomside. Final filters inside the housing are standard GS style with anodized aluminum frame and upstream gel channel.

A round perforated stainless steel grille and frame assembly is attached with four (4) screws. Removing the grille permits replacing the HEPA or ULPA final filter without removing the unit from the ceiling.

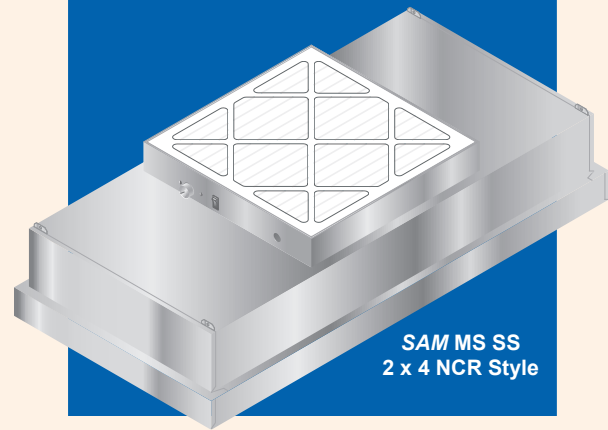
All final filters are tested according to accepted procedures as described by the Institute of Environmental Sciences (IEST) and/or ISO standards.



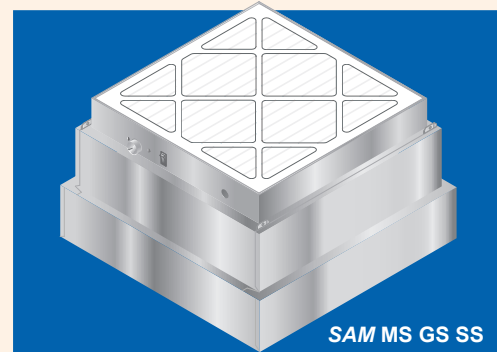
SAM is a registered trademark owned by Clean Rooms International



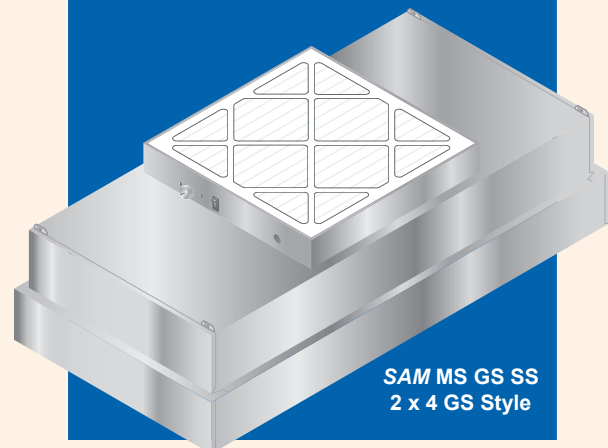
**SAM MS SS**  
2 x 2 NCR Style



**SAM MS SS**  
2 x 4 NCR Style



**SAM MS GS SS**  
2 x 2 GS Style



**SAM MS GS SS**  
2 x 4 GS Style

# Data & Specs for SAM<sup>®</sup> MS SS Units

## 2' x 2' Units

**NCR Style Filter Data:** Size: 23-5/8" x 23-5/8" x 3" with exposed stainless steel frame. The HEPA 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.

**GS Style Filter Data:** Size: 20-5/8" x 20-5/8" x 3" with anodized aluminum frame, upstream gel channel and diamond pattern white epoxy face screen. The HEPA 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.

## 2' x 4' Units

**GS Style Filter Data:** Size: 20-5/8" x 44-5/8" x 3" with anodized aluminum frame, upstream gel channel and diamond pattern white epoxy face screen. The HEPA 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.

**NCR Style Filter Data:** Size: 23-5/8" x 47-5/8" x 3" with exposed stainless steel frame. The HEPA 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.

### Actual Sizes

2 x 2 NCR Style 23-5/8" x 23-5/8" x 12-5/8"	2 x 2 CRF Style 23-5/8" x 23-5/8" x 14-1/2"
2 x 4 NCR Style 23-5/8" x 47-5/8" x 12-5/8"	2 x 4 CRF Style 23-5/8" x 47-5/8" x 14-1/2"

### Base Model (Ordering Information)

Mfg. Code	Model or Description	Style	Size	Voltage	Motor	Variable Speed Control	HEPA Filter	Weight
12106*	SAM 22 MS SS	NCR	2 x 2	115	N310	703084	302052	52 lbs. (23.6 kg.)
12108	SAM 22 MS SS	NCR	2 x 2	208-230	N310	703912	302052	52 lbs. (23.6 kg.)
12109*	SAM 22 MS SS	NCR	2 x 2	277	N310	703915	302052	52 lbs. (23.6 kg.)
12270*	SAM 24 MS SS	NCR	2 x 4	115	N310	703084	302053	75 lbs. (34 kg.)
12271	SAM 24 MS SS	NCR	2 x 4	208-230	N310	703912	302053	75 lbs. (34 kg.)
12272*	SAM 24 MS SS	NCR	2 x 4	277	N310	703915	302053	75 lbs. (34 kg.)
12110*	SAM 22 MS GS SS	GS	2 x 2	115	N310	703084	302201	70 lbs. (31.8 kg.)
12112	SAM 22 MS GS SS	GS	2 x 2	208-230	N310	703912	302201	70 lbs. (31.8 kg.)
12113*	SAM 22 MS GS SS	GS	2 x 2	277	N310	703915	302201	70 lbs. (31.8 kg.)
12273*	SAM 24 MS GS SS	GS	2 x 4	115	N310	703084	302200	100 lbs. (45.4 kg.)
12274	SAM 24 MS GS SS	GS	2 x 4	208-230	N310	703912	302200	100 lbs. (45.4 kg.)
12275*	SAM 24 MS GS SS	GS	2 x 4	277	N310	703915	302200	100 lbs. (45.4 kg.)

\* UL Listed

### Motor Data

Motor	Voltage	Hz	Watts	Running Amps	Start-Up Amps
N310	115	60	185	1.6	4.1
N310	208-230	50/60	170	0.8-0.7 <sup>(1)</sup>	1.5 <sup>(2)</sup>
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
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
302052	2 x 2 NCR Style HEPA Filter, 99.99% eff. @ 0.3 micron
302053	2 x 4 NCR Style HEPA Filter, 99.99% eff. @ 0.3 micron
302190	Prefilter 20" x 20" x 1", 30% ASHRAE efficient, pleated type
Note: Consult with the factory for horizontal flow applications	