

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.

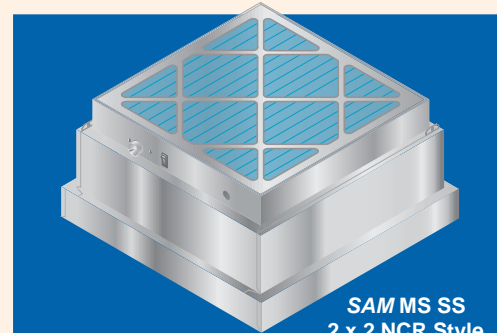
The blower is a 115 volt low watt AC backward curved impeller, 60hz, single phase, permanent split capacitor type motor blower assembly with thermal overload protection. Other motor and voltage options are 208-230 (50/60 hz) and 277 (60 hz).

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

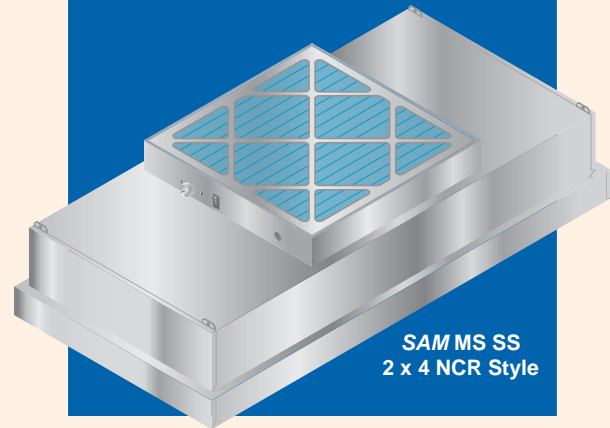
SAM GS Fan Filter Units feature a HEPA or ULPA filter replaceable from roomside. Final filters inside the housing are standard GS style with anodized aluminum frame and upstream gel channel.

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.

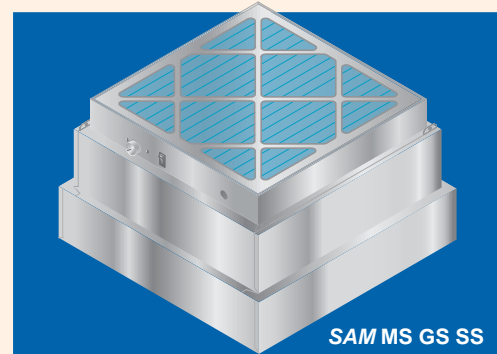
All final filters are tested according to accepted procedures as described by the Institute of Environmental Sciences (IEST) and/or ISO standards.



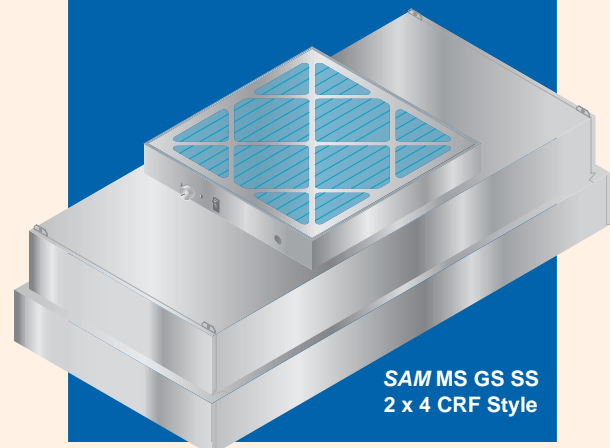
**SAM MS SS
2 x 2 NCR Style**



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



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



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



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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. An access port with removable plug is located in the center of the filter element face for introducing an upstream challenge or measuring static pressure.

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. An access port with removable plug is located in the center of the filter element face for introducing an upstream challenge or measuring static pressure.

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 ⁽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 |
| 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 ULPA Filter, 99.9995% eff. @ 0.12 micron |
| 302190 | Prefilter 20" x 20" x 1", 30% ASHRAE efficient, pleated type |

Note: Consult with the factory for horizontal flow applications