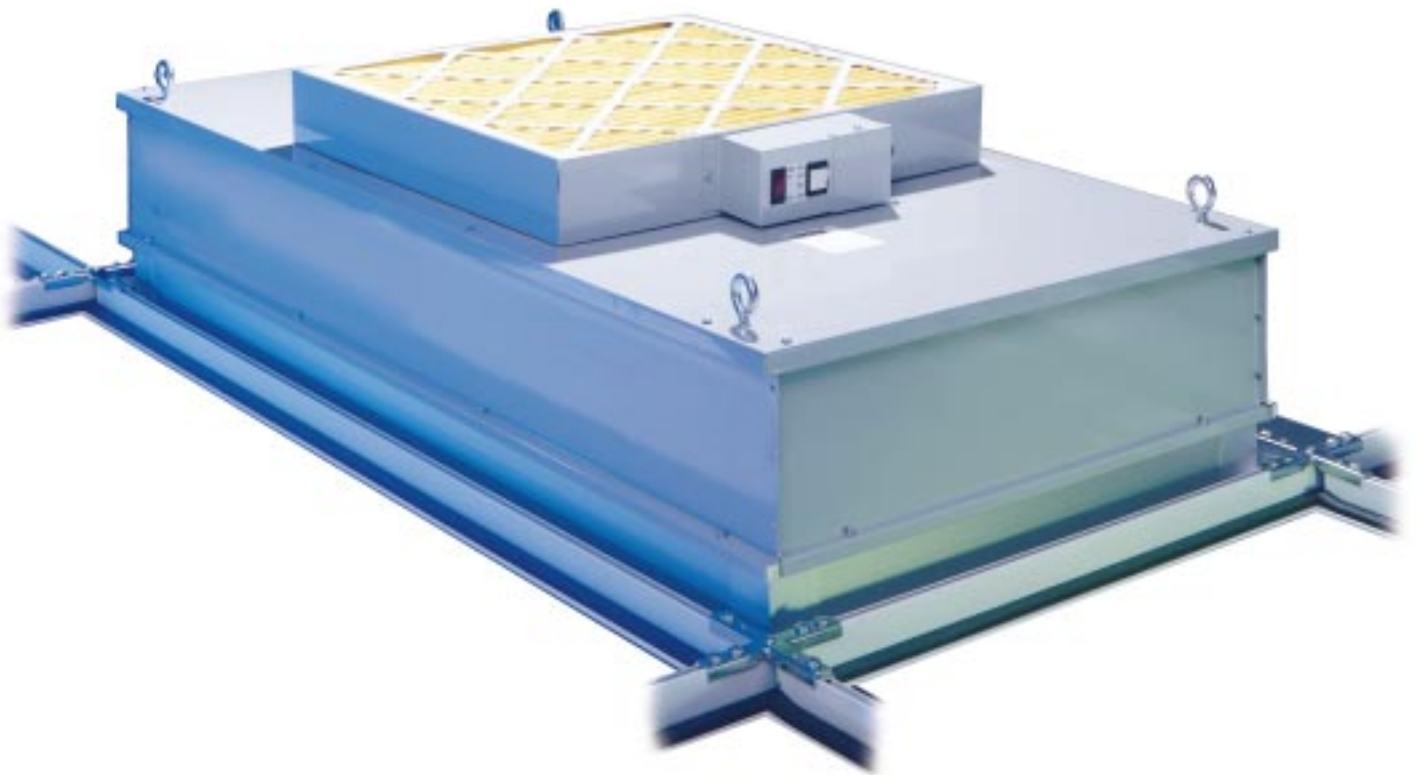


GORDON

Fan Powered Filters



PHANTOMSM
by **GORDON**

Your Sound Alternative

Determined to be quieter than the competition by independent testing.

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Your Sound Alternative

Features:

■ **Low Noise:** Each standard Phantom operates at or below the exceptionally quiet NC-40 sound level, as demonstrated in independent testing in accordance with ANSI SL31-1980 and ISO 3741-1975. Tested sound levels for the 2' x 4' Phantom are shown in the table below. The Phantom provides the ultimate in employee safety and comfort due to its unsurpassed sound performance at rated air flow rates of 90 f.p.m.

Fan Speed	Sound Level (dBA)
High	56.0
Medium	52.9
Low	49.0

■ **Reliability:** U.L. and C.U.L. listed and approved. Motors are rated at 100,000 hours. ASHRAE rated pleated prefilter assures extended life of the HEPA final filter. Tested up to .5" external static capability.

■ **Compatibility:** Available in 7 standard 2' x 2', 2' x 3', and 2' x 4' sizes to fit all typical clean-room grid modules. Phantoms are also available in various voltages for application worldwide.

■ **Adjustable Speed:** The Phantom is the only fan-powered filter unit offering 3-speed motors for optimal air flow adjustment.

Today's Phantom Fan Filter Unit is the result of a 25-year evolution of FFU technology. It is designed for optimum performance and reliability, with sizes and compatibility to meet your most stringent applications.

The Phantom delivers a quiet 49 dBA sound level while generating a capable, evenly distributed 90fpm air flow. Its extremely quiet operation and exceptional airflow attributes work in tandem to properly handle your cleanroom filtration needs.

Quality components add reliability and value to the Phantom FFU. Plenum housing is 20-gauge steel with durable baked powdercoat finish. Motors are test-rated at 100,000 hours minimum, and feature 3-speed adjustability.

Blower assembly provides the necessary power to quietly propel a high volume of air through an absorptive pathway into a HEPA or

ULPA final filter. ASHRAE-rated pre-filters help give the HEPA/ULPA filters an exceptional life expectancy of over 12 years.

The face of the final filter is protected by a perforated aluminum screen with clear anodized finish. Four threaded receptacles in the hood accept either eyebolts or 3/8-16" threaded rods for suspension.

The Phantom is UL and CUL listed, and exceeds IES RP-2 recommendations. And independent testing by a leading acoustical engineer has determined Phantom to be quieter than the competition. So you can rely on the Phantom to perform to the highest standards with the lowest noise levels.



Contact your Gordon representative today to arrange a PhantomSM sound comparison demonstration.

Specifications:

General

The PHANTOM FAN FILTER UNIT is a low profile fan powered HEPA filter module manufactured by GORDON CLEANROOM PRODUCTS, Shreveport, Louisiana.

Construction

Plenum housing is twenty gauge steel, finished with a baked powder coat paint finish. All seams and penetrations are sealed air tight with cleanroom compatible sealant.

Filters

Pre-filter: Phantoms are equipped with a minimum 20% efficient pleated prefilter, rated per ASHRAE standard 52-76. Size: 20" x 20" x 1".

Final Filter: Final filter is HEPA type 99.99% efficient on 0.3 micron particles. HEPA filter frame is fabricated of anodized extruded aluminum. Grille is anodized aluminum, containing a small round perforated pattern, integral to the filter frame assembly.

Motor/Blower

Blower is direct drive, forward curve centrifugal type.

Motor is 1/4 H.P., 115 volt, 1 phase, 60 Hertz, rated @ 3.8 amps operating at 950 rpm. The motor is a permanent split-capacitor type with internal thermal over-load protection.

The motor/blower assembly is equipped with a 3 position switch for speed control, and a circuit breaker protected on/off switch.

Options:

- ULPA or PTFE Final Filters are available offering efficiency up to 99.99999% for the cleanest operating requirements.
- Knife Edge Filters for use with gel-seal ceiling systems.
- Power Cords can be provided for easy installation flexibility.
- Solid State Speed Controls are available for on-unit or remote speed adjustment.
- A/C Duct Collars, available in various sizes, allow attachment of A/C supply ductwork directly to the Phantom intake.
- Airflow Indicator Signal Light verifies operational status of the unit.
- Custom Housing Materials or Finishes may be provided to meet unique facility performance requirements.

Standard Phantom Models	Dimension inches/mm			Weight LBS. kg	Motor H.P.	Air Flow	
	W	L	H			avg. CFM Hi Speed	Velocity avg. fpm
2' x 4'	23-5/8 591	47-5/8 1191	12 300	74 34.56	1/4	700	90 +/- 10%
2' x 3'	23-5/8 591	35-5/8 891	12 300	58 27.09	1/4	520	90 +/- 10%
2' x 2'	23-5/8 591	23-5/8 591	12 300	47 21.95	1/4	380	90 +/- 10%
*2' x 4'	23-1/8 578	47-1/8 1178	12 300	72 33.62	1/4	700	90 +/- 10%
*2' x 3'	23-1/8 578	35-1/8 878	12 300	56 26.15	1/4	516	90 +/- 10%
*2' x 2'	23-1/8 578	23-1/8 578	12 300	46 21.48	1/4	380	90 +/- 10%

*Fits Gordon 2" ceiling systems installed 2'-0" x 4'-0" o.c.



Also From Gordon:

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55mm Lighted Ceiling Systems

2" T-Grid Ceiling Systems

DuraFinish Cleanroom Wall Systems

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