



Series 1522

Inflow Dust Containment Cabinet, Blower Below

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The Series 1522 inflow dust containment cabinet comes in a variety of sizes and styles. Some of the features depend on the style of unit you choose.

The standard Series 1522 units are constructed of painted steel. This finish is designed to be compatible with normal cleanroom environments.

The system is designed to draw air into the wall-mounted filters where it is then filtered and discharged back into the space.

Note: The system is not designed to work with flammable vapors, odors, or corrosives. Protective garments and respirators should be worn by personal to prevent exposure to materials being used within the system.

Features

- ❖ Acrylic hood
- ❖ 99.99% filter efficiency on 0.3 micron (standard) HEPA and on 0.12 Micron ULPA
- ❖ Standard prefilter provides efficiency of 40% by NBS Test Method using atmospheric dust or better; high-efficiency filters available
- ❖ Customized options available
- ❖ Requires very little maintenance to achieve continuous optimum performance
- ❖ Effective solution for mailroom protection, hazardous materials, and biosafety applications

HEPA Filters

Sizes – The HEPA filters used in the units are of standard industrial sizes.

Mini pleat

Filter frames – Extruded aluminum

Protective screen on the upstream side of the filter.

Gasket – 1/4 in. x 3/4 in. closed cell, gasket on downstream side of the filter.

Filter efficiency – 99.99% on 0.3 Micron (Standard) "HEPA";
99.99% on 0.12 Micron "ULPA";
Other

HEPA Filter System

The HEPA filter system consists of two basic members: the absolute HEPA filter and a flexible duct to form a modular component. All Clean Air Products' HEPA filters have been tested to meet Mil Standard 282 and are tested for leakage for 99.99% removal of all particulate contaminants greater than 0.3 micron.

Prefilter

The unit uses two stages of prefiltering before the HEPA filter. The second stage of prefiltering can be an optional charcoal filter. The prefilter is made of disposable, non-woven framed fiberglass media, with a nominal efficiency of 40% by NBS Test Method using atmospheric dust or better. Higher efficiency filters can be used, but will increase the system pressure drop. This may require an increase of the blower RPM to

increase the suction pressure across the filters.

Blowers

The blowers can be direct-drive or belt-drive depending on the model.

Direct-drive blowers have a three-phase motor that is attached directly to the blower wheel. The airflow of the unit is controlled by an optional frequency drive.

Belt Drive Blowers

Belt-drive blowers use a fixed-speed 1,725 RPM three-phase motor that is connected to the blower by a belt and pulleys. The speed of the blowers and air velocity through the filters is changed by changing the diameter of the variable pitch pulley located on the motor.

Frequency Modulator Speed Control (optional)

Three-phase motors can have an optional electronic remote speed control used to change the RPM of the blowers. This electronic device changes the frequency of the electric power from 60 Hz to something less. As the frequency decreases, so does the speed of the blower. Frequency drives can be used on direct-drive or belt-drive systems.

Inflow Velocity

The standard average inflow velocity will be 100 LFPM.

Sizes

Nominal sizes available in 3, 4, 5, 6, and 8 ft. widths and 2, 2-1/2, 3, and 4 ft. interior work area heights.

Acrylic Hoods

The top acrylic panels lay into the T-bar system and can be lifted out for replacement.

Guarantee

A written 1 year warranty is furnished with each cabinet.

Specifications subject to change. Please contact factory for details.