



mintie technologies, inc.®

omniaire 600v™

HEPA AIR FILTRATION SYSTEM



The **OMNIAIRE 600V** HEPA Air Filtration system is a variable speed HEPA-filtered negative air machine designed for removal of toxic mold, asbestos or other airborne contaminants during construction, renovation and abatement projects or for use with the Mintie Technologies Environmental Containment Unit (ECU) to create HEPA-filtered negative pressure environments.

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PRODUCT SPECIFICATIONS:

Net weight (with filters)	55 lbs.
Dimensions (LxWxH)	30.5"x14"x 16"
Operating Speeds	Variable Speed Controller
Free Airflow (FA) Ratings (without HEPA)	600 CFM at highest speed
Static Airflow (SA) Ratings	150 - 550 CFM
Filtration Stages	3 or 4
99.99% HEPA Filter, Medical Grade	YES
Cabinetry-Aluminum	0.08
Closed End Rivet Construction	YES
Silicon Sealed Seams before Riveting	YES
Exhaust Collar Diameter	8"
Carrying Handles w/ rubber	Two
Casters	Four
Motor Horse Power	1/4 hp
Circuit Requirements (Volts/Hz)	115 VAC/60 Hz
Maximum Operating Amps	3.5 Amps
Thermal Overload Protection	Yes
Pressure Gage	0-3" W.C.

Included Accessories:

Intake Manifold, 8" diameter ring
Quick clamp, 8" diameter
Flex hose, diameter 8", length 3 ft.

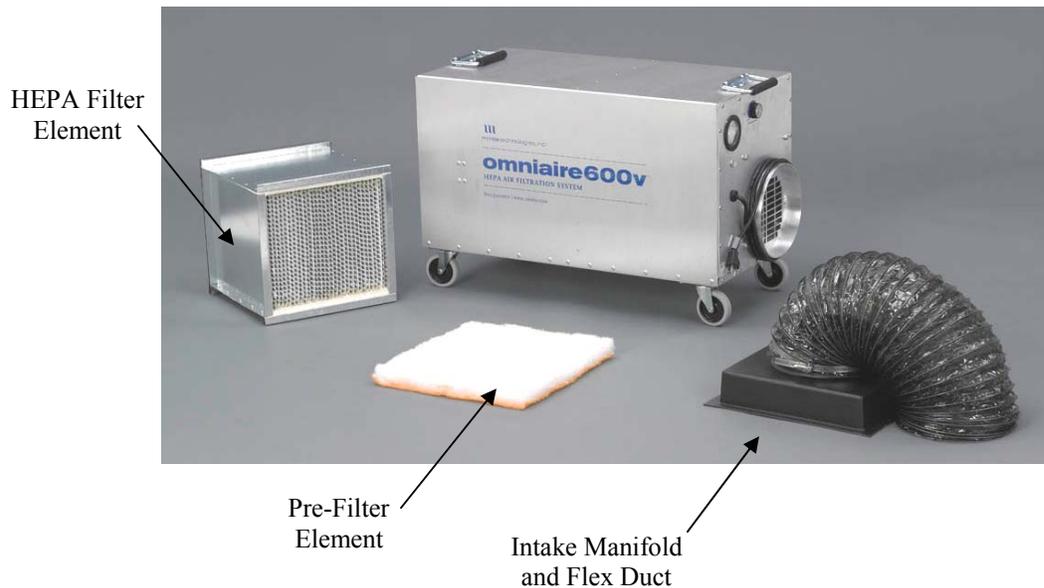
<p><u>PARTS:</u></p> <p>Omniaire 600V HEPA Filtration System HEPA filter—99.99% @ 0.3 micron, Size 12" x 12" x 11.5" Primary/secondary filter—two-stage poly pad, 35% efficiency, with antimicrobial and tactifier treatment Intake Manifold—Durable ABS plastic, Size 13.5" x 13.5" with 8" diameter ring for flex duct Flexible Duct—8" diameter, 3' length including Quick Clamp</p> <p><u>OPTIONAL ACCESSORIES:</u></p> <p>OdorGuard 600—Carbon filter pad, Size 12" x 12" x 2" OdorGuard 750 Plus— Carbon/Alumina/Potassium permanganate filter pad, Size 12" x 12" x 2"</p>
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CONFORMS TO UL STD 507
CERTIFIED TO CAN/CSA STD C22.2 NO. 113-M1984

Figure 1. The Omniaire 600V and included accessories



INSTRUCTIONS

Unpacking:

Carefully check the unit for damage. Remove the primary/secondary filter and check the HEPA filter to be sure that it is seated well against the internal flange and the bottom of the unit. Check the mounting tabs (See Figure 4) to ensure that they have not worked loose during transport.

Operation:

The Omniaire 600V **must** be operated with HEPA filter in place. Operating the unit without the filter may lead to mechanical or electrical damage. This may also contaminate the parts downstream if the filter and limit the units ability to provide proper containment. It is also recommended that the primary/secondary filter be used and replaced frequently to extend the life of the HEPA filter.

To operate the unit, plug the power cord into a standard three prong grounded outlet. Turn the variable speed knob clockwise until it clicks. Adjust the airflow using this same knob.

When filters are clean, the pressure gauge will indicate about 1" WC of vacuum. As the filters fill with dust, **the efficiency of the filters is maintained**, but the air flow will decrease and the vacuum reading will increase. Change the primary/secondary filter frequently to protect the HEPA filter and to maintain air delivery at the stated unit capacities. When the vacuum gauge reaches about 1.5" WC with a clean pre-filter, the HEPA filter will have to be replaced to the unit to its stated airflow delivery capacity.

The **Intake Manifold** may be used on the suction side of the unit providing an 8" diameter connection for the flex duct. The discharge side of the unit also has an 8" diameter ring for a flex hose. To install the manifold, slide out the rear metal panel and slide the manifold into place (See Figure 2).

INSTRUCTIONS (Continued)

Figure 2. Rearview of the Omniaire 600V

Manifold Installation:

1. Slide metal panel out.
2. Leave pre-filter in place.
3. Slide intake manifold in.



Figure 3. HEPA Filter Installed in the Unit

Note: Tab layout and number may vary with different models.



INSTRUCTIONS (Continued)

Maintenance:

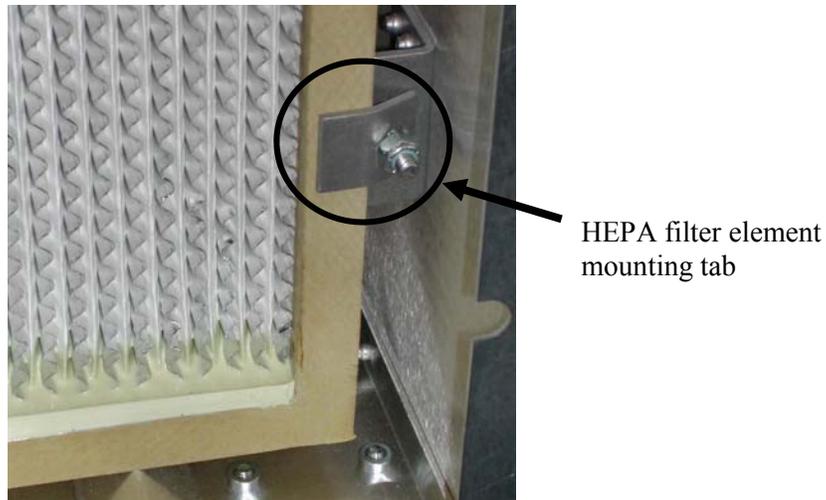
Mechanical and Electrical -

The motor and blower do not require any maintenance when the machine is operated with the HEPA filter in place.

Filter Replacement -

When replacing the HEPA filter, proper care should be taken to wear a respirator in combination with the necessary PPE. The filter should be disposed of in an appropriate manner based on the contaminants it was exposed to. The HEPA filter element is held in place by metal tabs and can be accessed from the back of the unit. To remove the element, remove the metal grate or intake manifold and pre filters. Then simply loosen the bolts on the tabs. Swing the tabs down and slide the element out. Slide the new filter element into place with the gasket side of the HEPA filter facing the blower unit. Make sure that the HEPA filter is seated well against the internal flange and the bottom of the unit. Tighten the filter tabs to compress the gasket by 1/8". Do not over tighten the bolts as this may crack the gasket. When replacing the HEPA filter, the pre-filter should also be replaced.

Figure 4. Close up of tabs for HEPA element



REFERENCE MATERIALS:

Omniaire 600V Electrical Diagram:

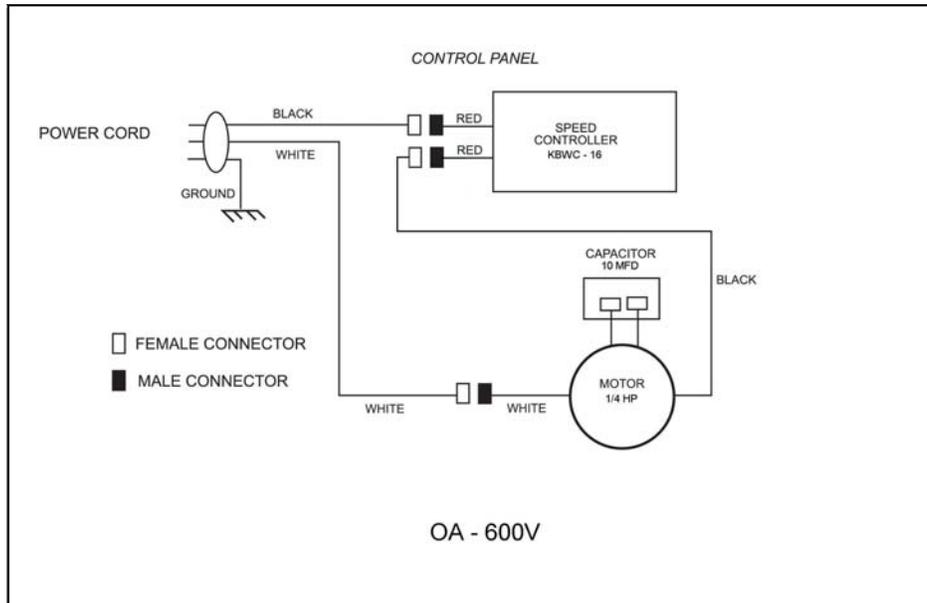


Table of Unit Decibel Levels:

Unit	dB Rating at:	Distance From Machine	
		1 meter	2 meters
MiniForce II	High Speed	59	58
	Low Speed	59	58
Omniaire OA 600V	High Speed	65	64
	Medium Speed	61	59
	Low Speed	56	54
Omniaire OA 1000V	High Speed	67	66
	Medium Speed	65	63
	Low Speed	63	61
Omniaire OA 2000	High Speed	70	69
	Medium Speed	66	65
	Low Speed	63	62

LIMITED PRODUCT WARRANTY

Mintie Technologies, Inc.[®] (Mintie Technologies) warrants to the original purchaser that all products, component parts and accessories, excluding filters, to be free from defects in material or workmanship for a period of one year after the date of original purchase. This warranty applies only for normal and expected uses, as determined by the manufacturer and explained and demonstrated in the accompanying instruction manual.

REMEDY LIMITATION

Mintie Technologies' obligation and liability under this warranty is limited to the repair or replacement (at its option) of the product or its parts, after its own review and examination. This will be purchaser's exclusive remedy under this limited product warranty. Mintie Technologies will not be liable for incidental or consequential damages even if its attempts to repair the defects fail, but in such case (or if Mintie Technologies elects not to repair or replace) the purchaser will be entitled only to a refund of monies paid to Mintie Technologies for the OMNIAIRE 600V.

This warranty shall be void as to any product which has been altered or modified in any manner. This warranty does not apply to damages caused by any force of nature, to accidental or deliberate damage of the product, or to use of the product that does not conform with the product instructions.

EXCLUSION OF ALL OTHER WARRANTIES

THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED PRODUCT WARRANTY SET FORTH ABOVE. MINTIE TECHNOLOGIES, INC. DISCLAIMS ANY WARRANTY OF ANY OTHER KIND, INCLUDING WITHOUT LIMITATION, ANY WARRANTY THAT THE GOODS ARE MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE.

PRODUCT SUITABILITY

Many states and localities have codes and regulations governing sales, construction, installation, and/or use of products for certain purposes, which may vary from those in neighboring areas. While Mintie Technologies attempts to assure that its products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the products are installed or used. Mintie Technologies

Mintie Technologies is proud to offer a full line of HEPA Filtration Purification Equipment.



Airborne Contaminants and Infectious Disease Isolation

Mintie Technologies HEPA air filtration products have been designed specifically to meet CDC requirements for clean, filtered air in a medical environment. Each air filtration system is equipped with a medical grade, aluminum frame, HEPA filter element that has been factory tested and certified as 99.99% efficient at 0.3 microns.

The MINIFORCE II and OMNIAIRE units can be paired with the Mintie Technologies Environmental Containment Unit™ (ECU™) to provide a comprehensive solution that will eliminate the uncertainty of manually created containment enclosures by providing a durable, standardized, prefabricated containment that will bring your facility into CDC and JCAHO compliance.

When paired with the Environmental Containment Unit (AnteRoom configuration), the MINIFORCE II and OMNIAIRE units can rapidly and safely convert a standard hospital patient room into an isolation room to meet CDC EIC Guidelines and HRSA Critical Benchmark #2-2 for surge capacity.

Construction, Maintenance and Remediation

Each of our four HEPA air filtration units can also be used as a stand alone device to capture dust, fungal spores, asbestos fibers and other microscopic airborne contaminants. These filtration systems are ideal for use during construction, renovation and abatement projects when air quality and the safety of your employees is critical.

Available Models

MiniForce II: The most compact, light weight machine available; Dual-speed: 350 & 425 FA CFM, Weight: 40 lbs, Size: 26.5”L x 14”W X 14”H

Omniaire 600V: Only slightly larger than the MiniForce II with variable airflow; 150-600 FA CFM, Weight: 55 lbs, Size: 30.5”L X 14”W X 16”H

Omniaire 1000V: A more versatile, variable speed model for larger areas; 300-950 FA CFM, Weight: 90 lbs, Size: 33”L X 18”W X 21”H

Omniaire 2000V: Most powerful model with the largest range of variable airflow; 300-1900 FA CFM, Weight: 110 lbs, Size: 34”W X 29”W X 20”H