

HEPA Air Filtration Equipment

Air Scrubbers for Mold, Asbestos and Lead Abatement Industry

MiniForce II - compact, light weight machine, 2-speeds: 350 and 425 cfm. Weight: 40 lbs. Size: 14"Hx14"Wx26.5"L **Accessories:** Activated carbon filter for toxic fumes and odors.

OmniAire 600V - compact, variable speed control, 150 - 600 cfm. Weight: 55 lbs. Size: 16"Hx14"Wx30.5"L **Accessories:** Activated carbon filter for toxic fumes and odors; UV-C Germicidal Light for viruses, bacteria, mold and odors.

OmniAire 1000V - compact, versatile, variable speed control, 300 - 950 cfm. Weight: 75 lbs. Size: 21"Hx18"Wx32"L **Accessories:** Activated carbon filter for toxic fumes and odors.

OmniAire 1300V - narrow profile housing, variable speed control, 300 - 1250 cfm. Weight: 90 lbs. Size: 29"Hx14"Wx33"L **Accessories:** Activated carbon filter for toxic fumes and odors.

OmniAire 2000 and 2000V - 2-speed, 1000 and 1900 cfm or variable speed control, 300 - 1900 cfm. Weight: 110 lbs. Size: 30"Hx20"Wx33"L **Accessories:** Activated carbon filter for toxic fumes and odors; UV-C Germicidal Light for viruses, bacteria, mold and odors.

OmniAire 2200 - 2-speed, 1000 and 2000 cfm. Weight: 125 lbs. Size: 31"Hx26"Wx32"L. **Accessories:** Activated carbon filter.

OmniForce II - compact and modular, variable speed control, 300 - 1900 cfm. Weight: 95 lbs. Size: 27"Hx18"Wx32"L with filter attached. **Accessories:** Activated carbon filter for toxic fumes and odors.



Do not use in hazardous atmosphere.
Do not use to exhaust combustible or
explosive gases.

Do not expose to water or rain.
Connect only to grounded outlet
with GFCI device.

Disconnect power for cleaning and servicing.



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OmniAire 600N NITRO 600 Negative Air Machine

OPERATION & INSTRUCTION MANUAL



IMPORTANT INSTRUCTIONS
DO NOT DISCARD; ADDITIONAL COPIES @ www.omnitecdesign.com

Omnitec Design, Inc.

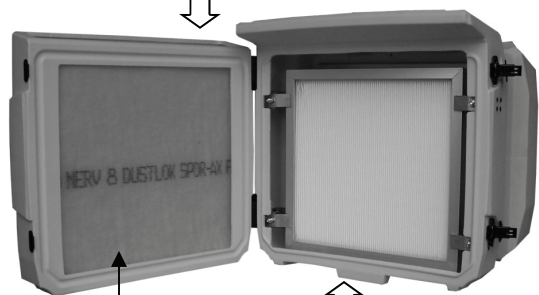
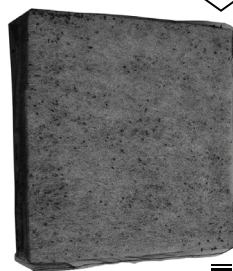
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2" Pleated Pre-filter,
MERV 11. Can be used in
conjunction with the stan-
dard Primary/Secondary or
as a stand alone. Slides
down into the door pocket.

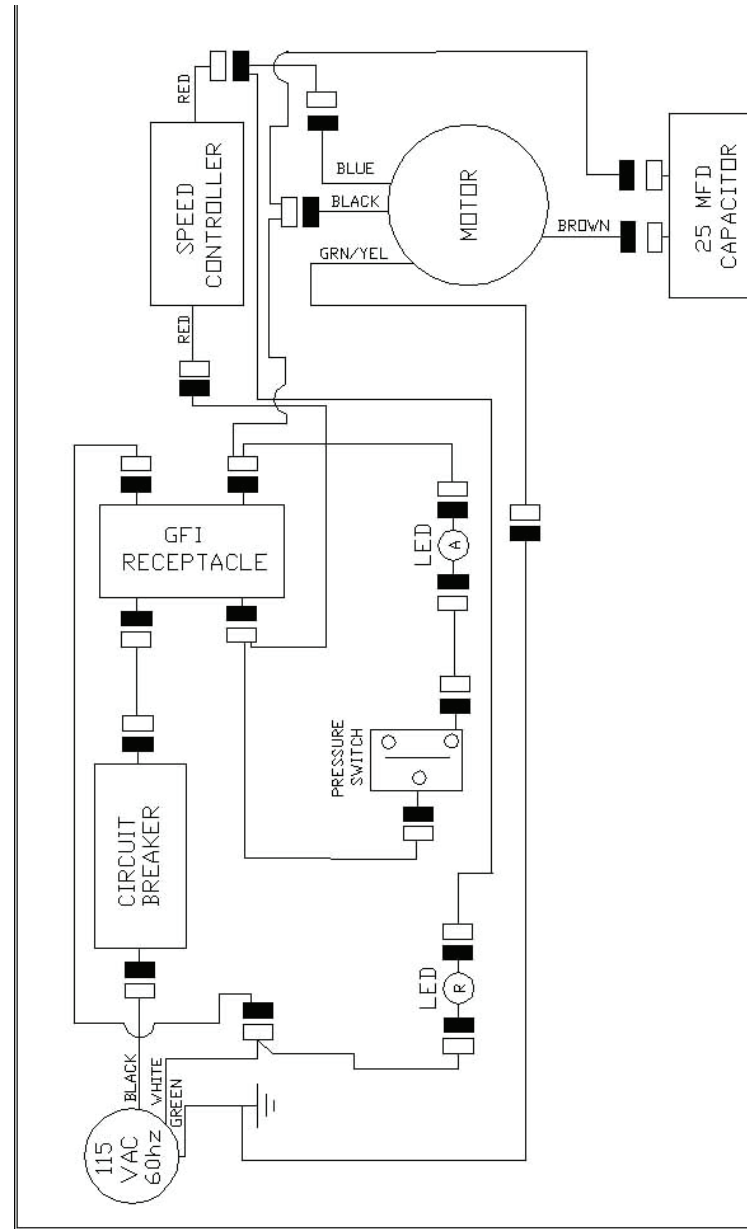
Optional Odor/Fumes Filter

2" OdorGuard 600 Carbon Filter. Use with the standard Primary/Secondary filter. Slides down into the door pocket.



Shown with HEPA Filter
99.97% @ 0.3 micron
installed

Geo95 MERV 14 filter can be used in place of the HEPA filter. Provides economical filtration for non-hazardous dust and contaminants.



OmniAire 600N Wiring Diagram	Revision	Revision Notes	Date
	A		06/11/08

Specifications

Air flow: 200 to 600 cfm with variable speed controller, 1,000 cfm free flow.

Power requirements: 115 VAC/50-60 Hz, 2.2 Amp.

Controls: Speed Controller, Circuit Breaker 12 Amp, Power and Change Filter indicator lights.

GFCI Protected Outlets: Use for additional small machines and equipment. Maximum load is 8 amps at 115 VAC.

HEPA Filter: 99.97% @ 0.3 micron efficiency, individually tested and certified, 16"x16"x6", high flow.

Primary/Secondary filter: Polyester, MERV 8, dual density with antimicrobial inhibitor and tactifier.

Blower: Motorized impeller with thermal overload.

Housing: Polyethylene flame retardant resin with UL94-V rating, UV resistant Class 8, Rotomold seamless construction.

Dimensions: 25" L x 18½" H x 18" W with 10" diameter connections for flex hoses on suction and discharge side.

Weight with filters installed: 36 lbs.

Warning: To prevent injury, always disconnect the machine from power outlet when servicing. Motor/blower will automatically restart after thermal overload or momentary loss of power.

ORDERING INFO	PART NUMBER
OmniAire 600N	OA600N
HEPA Filter	OA15156
Geo95 Filter	OAG15154
Primary/Secondary Filter (qty 20)	OAP1616
OdorGuard 600	OG1616
Primary Pleated Filter MERV 11	OPF1616
Quick Clamp	QCW12
Flexible Duct, 10" x 25'	OAD10

OmniAire 600N - NITRO 600

The NITRO 600 is a portable multi-use air filtration machine for commercial and industrial use. Machine comes with Dustlok Primary/Secondary MERV 8 filter and a choice of final filter, HEPA 99.97% or Geo95 MERV 14 filter. Optional pleated MERV 11 dust filter and OdorGuard carbon filter for odors and fumes can be added at any time. The NITRO 600 provides a cleaner and healthier environment at construction and renovation projects and in industrial environments.

Typical Applications	Filters To Use
Mold and Fungi Spores	HEPA 99.97 @ 0.3 micron, Primary/Secondary
Lung-damaging Particulates	HEPA 99.97 @ 0.3 micron, Primary/Secondary
Volatile Organic Compounds	HEPA 99.97 @ 0.3 micron, OdorGuard, Pri/Sec
Irritating Odors	HEPA 99.97 @ 0.3 micron, OdorGuard, Pri/Sec
Organic Vapor Gases	HEPA 99.97 @ 0.3 micron, OdorGuard, Pri/Sec
Smoke	HEPA 99.97 @ 0.3 micron, OdorGuard, Pri/Sec
Construction Dust	Geo95, Primary/Secondary
Drywall Dust	Geo95, Primary/Secondary
Sawdust	Geo95, Primary/Secondary

Requirements for safe operation

1. Only properly trained personnel should operate this equipment - read manual.
2. Check power cord for damage or breaks.
3. Do not lay power cords in water or expose to heat or sharp edges. Replace cord when damaged.
4. Never clean or repair the unit while connected to power outlet.
5. **CAUTION:**
 - Do not use in hazardous atmosphere.
 - Do not use to exhaust combustible or explosive gases.
 - Do not expose to water or rain.
 - Connect only to grounded outlets with GFCI device.
 - Disconnect power when cleaning and servicing.

Electrical Requirements:

1. Power requirements, 115 VAC, 50/60 Hz
2. Extension cords should be UL/CSA listed, 3 wire, 15 Amp rating. Cords should not exceed 50 feet in length.
3. The power outlet should be 3-prong, grounded electrical outlet.

Filtration Stages

The NITRO 600 has a multistage pre-filter located in the door compartment and HEPA or Geo95 filter mounted inside the main body.

- Primary/secondary filters are combined in dual density poly pad filter with MERV 8 efficiency. Filter is treated with anti-microbial additive and tactifier to increase dust holding capacity. Very efficient and economical filter for all types of applications.
- HEPA filter - Individually tested and certified for efficiency 99.97% of 0.3 micron size particulates.
- **Optional filter: OdorGuard 600** activated carbon filter for removal of odors, gases and VOC vapor. This 2” deep carbon filter contains 600 grams of granular carbon per square foot which is 12 times the amount of carbon in a typical carbon pleated filter.
- **Optional filter: MERV 11 pleated filter 2” deep** - High efficiency filtration for 1 to 20 micron size particulates.
- **Optional filter: Geo95 MERV 14 filter** - Can be used in place of HEPA filter on non-hazardous applications.



Operation

1. With the speed controller in the OFF position, plug the power cord into a 115 VAC power source.
2. Turn the speed control knob from the OFF to the MAX position and allow the motor to come up to full speed. The POWER indicator light will come on at this time.
3. Adjust the speed control to produce the desired air flow.
4. When the CHANGE FILTER light comes on during operation, it indicates that the air flow is restricted. See the **Troubleshooting** section of this manual to correct the problem.

Troubleshooting

The *OmniAire 600N Nitro* has been engineered to provide long lasting service. High quality materials and components are used in the manufacturing process, but there may be an instance where you need to refer to these common sense guides.

1. Unit does not start when turned 'ON'.

Make sure the power cord is not damaged and that it is plugged into a power source.

If the circuit breaker on the machine has tripped, re-set it.

If the GFCI on the machine has tripped, re-set it.

If the motor smells hot it is possible that the thermal overload on the motor has tripped. Wait 30 minutes to allow the motor to cool and restart.

2. Building circuit breaker has tripped.

The circuit may be overloaded. Unplug other equipment using the same circuit or reposition the machine to a different circuit.

3. "CHANGE FILTER" indicator light is on.

If the Primary/Secondary filter looks dirty, replace it.

The HEPA filter may be "full" and needs to be replaced. Visually inspect the HEPA filter and if it looks clogged then replace the filter. If the filter does not look clogged then inspect the flex hose on the intake side of the machine if you are using one. If the flex hose is kinked or curved too abruptly then straighten it out and see if that corrects the problem. If you are using another optional filter then inspect that filter to make sure you have removed whatever packing material it may have been shipped in.

If the light remains illuminated and you have checked the hoses and replaced the primary/secondary filter then the final stage filter, whether it is the HEPA or Geo95 must be replaced at this time.

Proper handling of equipment will keep it in operating condition for a long time. Please protect your investment wisely.