



# VENT VAC III

(Optional: Available in 220/240 Volt, 50/60 Hz Power)

## OPERATING INSTRUCTIONS & PARTS MANUAL

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**Air-Care is a proud member of:**

**NADCA**  
National Air Duct Cleaners  
Association

**ISSA**  
International Sanitary  
Supply  
Association

**NAFA**  
National Air Filter  
Association

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# Unpacking Instructions

Remove the outer box and inspect for damage. Report all damage immediately to your carrier. If special set-up instructions are required, they will be taped to the outside of the Equipment or in the “Operating” section of this manual.

Inspect all of the packing material for small parts before discarding packaging material. Report all damage to Air-Care immediately. Any attempt at repairing damages may void warranty.

## **Check that all parts are present (See Page 9 & 10)**

### **Vent Vac III**

- Vent Vac III with Wheels, Motors & Blower in tact
- Dryer Exhaust Flap Clip
- 3” x 4” x 3” “Y” Adapter
- Adapter, 3” ID Hose to 2 ¼” Tools, Metal
- Hose, 3” x 12.5’ W/Cuffs
- Dual Stage 20 Gal. Bag Filter (5/pkg.)
- 3<sup>rd</sup> Stage 13 x 15 x 1 Electra Gold Filter
- 4<sup>th</sup> Stage HEPA, 14 x 18 x 3
- Inlet Plug, 2” Red (“Dust Cap for Vacuum)
- Adapter, 3” to 2” Hose Cuff
- Brush, 24” Lint
- Kit, 2 ¼ Tool
  - Extension 19” (2)
  - Tool, Crevice
  - Tool, Bulk Pickup
  - Tool, Floor, 16” wide w/ Rollers
  - Brush, 4” OD, 90°
  - Bag, Mesh Tool
- Vacuum Hose Brackets, Qty 4 (Pre-Drilled with Hardware & Brackets)

## Safety Precautions

Always use safe and common sense precautions when working with Air-Care equipment. Do not block walkways with equipment, and remove delicate and breakable articles from the immediate work area. The following are precautions that should be reviewed by all persons who will be involved in the cleaning activity.

- Other than the 3 filters, there are no user serviceable components in Air-Care TurboJets. Only trained technicians should attempt to make internal repairs on this equipment.
- Always unplug both power cords before removing the covers or working on the wiring.
- Inspect AC power plugs to be sure the ground pins are in place.
- Never connect power to Air-Care equipment unless all covers and safety shields are in place. Mechanical and electrical parts could activate and cause injury.
- Never allow anyone but a properly trained technician to use the equipment or cleaning products.
- All Air-Care equipment is designed for US standard 115 volt, 60 Hz AC. The Vent Vac III is optionally available in 220/240 Volt, 50/60 Hz Power. Always check the specifications on the equipment before connecting electrical power to Air-Care Equipment.

If you have questions about the safe use of any Air-Care product, call 702-454-5515

Equipment specifications and part numbers are subject to change without notice.

# Operating Instructions

## Set-Up and Testing

The Vent Vac III has significantly MORE static pressure than Air-Care TurboJet Negative Air Machines and will be able to pull heavy, moist or sandy construction debris out of dryer vents, commercial ducts, chimneys, and restoration areas. It is NOT meant to be a wet vacuum for liquids.

To test a Vent Vac III, plug one of the power cords into a suitable 120-volt outlet. Line #1 will supply power to VAC1 and VAC2, while Line #2 will provide power to VAC3 and VAC4. If all 4 VAC Motors are to be used at one time, Line 1 and Line 2 must be plugged into 2 independent power outlets. If you are not sure if 2 outlets are independent, press the center “test” button; the green power light will only light up if the 2 power cords are in independent power outlets. The optional 220/240 Volt Vent Vac III also requires 2 independent electrical outlets; each must be 7.5 to 10 amps. This version does not come with a “test” button and green power light. Also, the test light may not light in Canada, even with 2 independent outlets.

**WARNING: DO NOT TURN ON MORE THAN 2 VAC MOTORS BEFORE PERFORMING THE ‘TEST’, WHICH WILL INDICATE A GREEN LIGHT IF PLUGGED INTO TWO INDEPENDENT OUTLETS. IF THE EQUIPMENT IS NOT PLUGGED INTO INDEPENDENT OUTLETS BEFORE TURNING ON MORE THAN 2 VAC MOTORS, A POWER SURGE MAY OCCUR AND TRIP A CIRCUIT BREAKER IN THE BUILDING.**

Because of a unique full flow check valve system, any combination of motors can be used. Any one motor can be used by itself or any 2 or 3 can be used with the same airflow and static pressure (water lift).

One motor will provide more airflow than most single motor shop or HEPA vacuums, and two motors will usually be more than adequate for most vacuuming needs. In those cases where extra power is required, simply plug in the 2<sup>nd</sup> power cord and turn on a 3<sup>rd</sup> or 4<sup>th</sup> motor as required.

## How to Connect the Vent Vac III

The Vent Vac III is an extremely powerful and versatile tool. The 3” vacuum hose is ideal for collecting construction debris without clogging and can be directly inserted into a 4” air or dryer duct. It can also be used with the “Y” adapter paired up with an agitation tool, such as the Drill Powered Cable or optional Air Whisk to be inserted at the same location. When connecting to a dryer duct, it is important to clip the outside flap open for proper cleaning.

For collecting debris in a variety of situations, the 2 ¼” extension wand, crevice tool, floor tool, bulk pickup tool and 4” round brush are very useful.

In a basement duct system, it is best to attach the 3” hose to the trunk line and drive the duct debris downward from the vents with an air tool or a power brush. The small particles that are most harmful to the lungs (under 10 Microns) will be carried in the airflow and captured by the Vent Vac filters. Larger debris may require additional agitation to be fully removed.

The Vent Vac III’s high volume and high static “water lift” make it even more effective at removing debris from smaller diameter air ducts than many other standard duct vacuums.

Air-Care has self-study and classroom and field training on how to clean all types of air systems, call 800-322-9919 for details.

### Using Vent Vac III to Clean Dryer Duct



# Maintenance

The Vent Vac III requires a minimum amount of maintenance, normally limited to cleaning or replacing filters as they become filled with dirt and debris. It is always beneficial to keep the exterior and interior of the machine clean. A qualified technician should perform all electrical or mechanical repairs.

## Filter Removal & Replacement

1. Turn off all the VAC motors, and unplug the Vent Vac III.
2. Open the front door and remove the bag from its 3” tube on the back side of the door.
3. Carefully remove the 2-stage bag filter and dispose of it properly in accordance with any local state or federal regulations applicable.
4. If there is noticeable debris build up on the 3<sup>rd</sup> stage gold filter below the bag filter, push it to the rear and lift it off and clean it. It can be rinsed with water or sprayed with Dynamite cleaner and rinsed, but it must be DRY before reinstalling it onto the HEPA canister filter.
5. To remove the 4<sup>th</sup> stage HEPA, release the top latch and both side latches and lift the vacuum tank off the base.
6. Lift the HEPA out and inspect it for damage or clogging.
7. Install a new HEPA filter, by placing it into the base with the “flow” arrow pointing down.
8. Install a new dual stage bag filter following the instructions on the bag. It collects heavy debris in the bottom section of the bag and lighter debris in the top section.

## Included Parts and Accessories for Vent Vac III

Ref#	Description	Part#
1	Dryer Exhaust Flap Clip	3092
2	3" x 4" x 3" "Y" Adapter	3094A
3	Adapter, 3" ID Hose to 2 1/4" Tools, Metal	AC1342
4	Hose, 3" x 12.5' W/ Cuffs	AC1832
5	Dual Stage 20 Gal. Bag Filter (5/pkg.)	F1962
6	3 <sup>rd</sup> Stage 13 x 15 x 1 Electra Gold Washable Filter	F3250
7	4 <sup>th</sup> Stage HEPA	F1954L
Not Shown	Inlet Plug, 2" ("Dust Cap for Vacuum")	4080
9	Adapter, 3" to 2" Vacuum Hose	AC1367A
10	Brush, 24" Lint	3101
11	Kit, 2 1/4" Tool (11a through 11f)	AC1311
	11a. Extension 19" (2 pieces)	AC1330
	11b. Tool, Crevice	AC1333
	11c. Tool, Bulk Pickup	AC1331
	11d. Tool, Floor, 16" wide w/ Rollers	AC1332
	11e. Brush, 4" OD, 90°	AC1334
	11f. Bag, Mesh Tool	AC1844
Not Shown	Vent Vac III Training DVD	M1091DVD
Not Shown	Vent Vac III Dryer Duct Cleaning DVD	M1143DVD
25	Drill Powered Calbe – 5/16" x 20' with 4" brush	CE3004

## Optional Parts and Accessories

Ref#	Description	Part#
	Vent Vac III, Complete Assembly	CE3250
	Vent Vac III, 220/240 Volt, 50/60 Hz, Complete Assembly	CE3250-220
15	Wheels, 12" Non-Marking	AC1578
Not Shown	Vacuum Motors (4), 120 Volt, 7 AMP High Volume, 120 Volt motors series can be wired to support 220/240 Volt 50/60 Hz power	4236M 4236M-220
17	Wheel, Front Swivel Caster	1581
Not Shown	Replacement Bristles for 4" 90 Degree Brush	AC1335
18	Coupler, 3" Hose to 3" Hose	AC1343
19	Kit, 1.5" Tool (includes 27a-27h)	
	19a. 2 piece Alum Wand	AC1825
	19b. Tool, Crevice, 14"	AC1827
	19c. Tool, Deep Reach Orange	AC1349
	19d. Brush, 3" OD	AC1828
	19e. Tool, Floor 14" wide	AC1829
	19f. Tool, Upholstery "T"	AC1830
	19g. Hose, 1.5" x 10 ft	AC1826
	19h Bag, Tool, Mesh	AC1844
20	Air-Care Fogger Model 2600	CE1241
21	Forward and Reverse Air Whisk System	CE1448
22	Sidewinder Hose Assembly	CE1542
24	5/16" x 20' Dryer Duct Cable. Comes with 4" Dryer Duct Brush	CE1990
Not Shown	5/16" x 35' Dryer Duct Cable. Comes with 4" Dryer Duct Brush	CE1991
25	4" Dryer Duct Brush	CE3044A



## Included Parts and Accessories for Vent Vac III

(Ref #9) Adapter, 3”  
to 2” Hose Cuff



(Ref #2) 3” x 4” x 3”  
“Y” Adapter



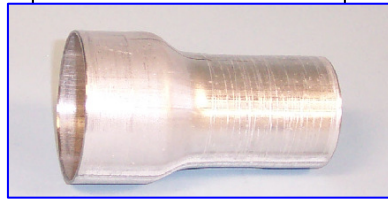
(Ref #4) Hose, 3” x 12.5’  
with Cuffs



(Ref #5) Dual Stage  
20 Gal. Bag Filter

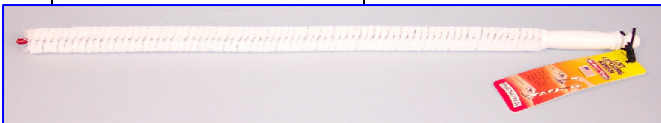


(Ref #3) Adapter, 3”  
I.D. Hose to 2 1/4”  
Tools, Metal



(Ref #6) 3<sup>rd</sup> Stage 13 x 15 x 1  
Electra Gold Filter

(Ref# 10) Brush, 24”  
Lint



(Ref #7) 4<sup>th</sup> Stage HEPA, Filter

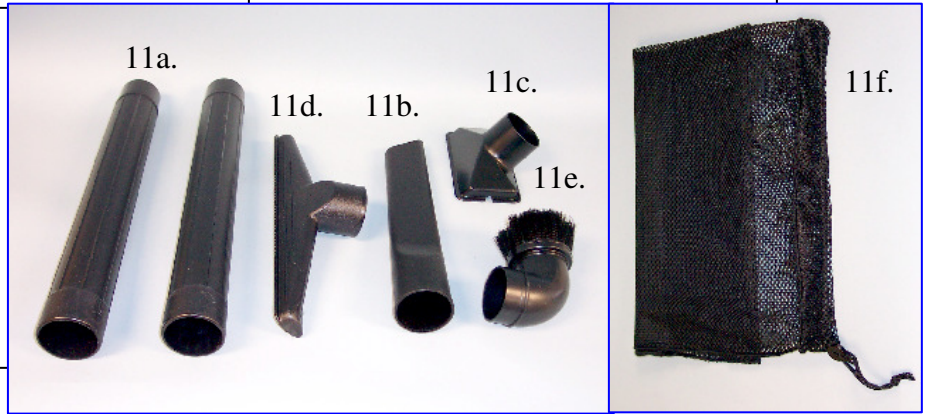
(Ref#1) Vent Flap  
Clip



## Included Parts and Accessories for Vent Vac III (Continued)

(Ref#11) Kit, 2 ¼" Tool

- 11a. Extension 19" (2 pcs.)
- 11b. Tool, Crevice
- 11c. Tool, Bulk Pickup
- 11d. Tool, Floor, 16" wide with Rollers
- 11e. Brush, 4" O.D. 90 °
- 11f. Bag, Mesh Tool



“Test” Switch for Green Indicator Light  
(Not included on 220/240Volt, 50/60 Hz)

Green “Test” Indicator Light-  
Indicates that Both Power Cords  
are in Independent Power Outlets  
(Not included on 220/240Volt, 50/60 Hz)

1, 2, 3, & 4 VAC Motor Switches

Power Cords

Auxillary AC outlet for Laptop or  
VIS

**Vent Vac 4x4 Control Panel**



## Optional Parts and Accessories

(Ref #19) Kit, 1 1/2" Tool

- 19a. 2-piece Aluminum Wand
- 19b. Tool, Crevice, 14"
- 19c. Tool, Deep Reach Orange
- 19d. Brush, 3" O.D.
- 19e. Tool, Floor 14" wide
- 19f. Tool, Upholstery "T"
- 19g. Hose, 1 1/2" x 10'
- 19h. Bag, Mesh Tool



(Ref #20) Air Care Fogger Model 2600



(Ref #22) Sidewinder Hose Assembly



(Ref #21) Forward and Reverse Air Whisk System



(Ref #24) 5/16" x 20' Drill Powered Dryer Duct Cable, Includes: (Ref #25) 4" Dryer Duct Brush



CE3004B

(Ref #18) Coupler, 3" Hose to 3" Hose, Black (Hose not included)



# Specifications

Specification	Description
<b>Size</b>	21" W x 36" D x 40" H
<b>Weight</b>	896 lbs
<b>Power requirements:</b>	115 Volt AC, 60Hz, 14 AMPS x 2 (Optional: 220/240 Volt, 50/60 Hz, 8 AMPS x 2)
<b>Power Cords (qty 2)</b>	Attached
<b>Filtration</b>	4 stages HEPA
<b>1<sup>st</sup> and 2<sup>nd</sup> Stage</b>	20 Gallon Dual Stage Bag
<b>3<sup>rd</sup> Stage</b>	13 x 15 x 1 Electra Gold Washable Filter
<b>4<sup>th</sup> Stage</b>	14 x 18 x 3 HEPA
<b>Vent Vac III Hose Attachment</b>	3" x 12.5' Hose with Cuffs
<b>Operating Environment</b>	25 to 125 Deg F (-4 to 50Deg C)
<b>Construction</b>	Rotation Molded Poly Body, w/ Aluminum Base
<b>Operating Controls</b>	4 Individual VAC Motor Switches "Independent Circuit" Indicator Light <b>(Not included with 220/240 Volt, 20/50 Hz version)</b>
<b>Air Flow</b>	120-500 CFM
<b>Static Pressure</b>	75 Inches W.G.
<b>Motors</b>	7 AMP Integrated Motor for each Blower (4) (4 AMP @ 240 Volts on 220/240 Volt, 50/60 Hz version)
<b>Blowers</b>	Single Stage, Tapered Blade, Low Noise, High Efficiency Vacuum Wheels (4)
<b>Wheels</b>	12" Fixed Rear and 4" Front Swivel Non-Marking Wheels

All specifications and prices are subject to change without notice.

# Vent Vac III Troubleshooting Guide

**Prior to troubleshooting, check the following:**

1. Be sure the power cords are plugged into 2 separate, dedicated power sources and verify that the wall outlet where the power cord is plugged into is working. (Plug in a lamp or other device and be sure it works properly).
2. Check that the dual stage, 20-gallon vacuum bag is not full, and that the 3<sup>rd</sup> stage electra gold pre-filter and 4<sup>th</sup> stage canister filters are not clogged.
3. Use the “test” button on the power panel to verify there are 2 independent power outlets being used.

<b>Symptom</b>	<b>Possible Causes</b>	<b>Suggested Action</b>
Low or no vacuum suction.	<ol style="list-style-type: none"> <li>1. Filters are clogged.</li> <li>2. Gasket is leaking.</li> <li>3. One or more motors are not running.</li> <li>4. The hose is clogged.</li> </ol>	<ul style="list-style-type: none"> <li>• Replace the dual stage, 20-gallon vacuum bag filter.</li> <li>• Clean the 3<sup>rd</sup> stage gold filter.</li> <li>• Clean or replace the 4<sup>th</sup> stage HEPA filter.</li> <li>• Inspect the gaskets on the door and under the HEPA, then Call Air Care for repair parts.</li> <li>• Run one motor at a time to determine which one is not running.</li> <li>• Remove the hose and check for vacuum then reverse the hose to suck out clogged debris if vacuum is ok. If there is still no vacuum, call Air Care.</li> </ul>
Circuit breaker in building trips.	<ol style="list-style-type: none"> <li>1. Both power cords are plugged into the same circuit.</li> </ol>	<ul style="list-style-type: none"> <li>• Check test light on panel, if it does not light, only use 2 motors.</li> <li>• Find a second independent electrical circuit for the second power cord.</li> </ul>
Excessive noise.	<ol style="list-style-type: none"> <li>1. White check valve located in III cabinet is installed upside down (air flow arrow should point up).</li> <li>2. One or more motor is bad.</li> </ol>	<ul style="list-style-type: none"> <li>• Remove check valve and install in proper direction.</li> <li>• Turn on one motor at a time to determine which one is bad, and then call Air Care for a new motor.</li> </ul>
Additional Questions?	Call Air Care	<ul style="list-style-type: none"> <li>• 800-322-9919</li> </ul>

# Glossary & Acronyms

1. ACGIH—American Conference of Government Industrial Hygienists
2. ASHRAE—American Society of Heating, Refrigerating, and Air Conditioning Engineers
3. Air Handler/ AHU—The Furnace or air conditioner that heats, cools and moves the air.
4. Antimicrobial—Agent that kills Bacteria, Molds and viruses. See “Sanitizer
5. Arrestance – An ASHRAE standard procedure to measure air filter efficiency (52.1)
6. Bioaerosols— Molds and bacteria that are found floating in the air.
7. Biological Contaminants— Bacterial, Mold/Fungus, viruses and their waste, byproducts and decomposition materials that can be inhaled and cause many types of health effects.
8. Building Related Illness—Diagnosable illness whose symptoms can be identified and whose cause can be directly attributed to airborne building pollutants (e.g., Legionnaire’s disease, and hypersensitivity Pneumonitis).
9. CFM—Cubic Feet per Minute, a measure of how much air is flowing in an air system.
10. CO—Carbon Monoxide, an odorless, toxic gas produced during combustion.
11. CO<sub>2</sub>—Carbon Dioxide an odorless, non-toxic gas produced during combustion and exhaled by people.
12. Ceiling Plenum – The area above a suspended ceiling that may be used as a return path to the Air Handler.
13. Conditioned Air – The air that has been filtered, heated or cooled by the air handler.
14. Dampers – Flaps or valves in the air duct that control the amount of airflow in the duct.
15. Diffusers & Grilles & Registers – The covers at the end of supply and return ducts that control the amount and direction of the air-conditioned air entering or leaving a room.
16. Electrostatic Filter – A High Efficiency (95% Arrestance) Air filter that generate static electricity from the air movement through the air handler and captures dust from the air while the clean air move freely through it.
17. EPA—Environmental Protection Agency
18. Duct – A metal, plastic or fiberglass tube that transports air to and from the Air Handler. They can be round, square or rectangular.
19. Duct Board – Compressed fiberglass material used to make air ducts, particularly in the southern U.S.
20. Fiberglass Filter – A disposable, very low efficiency filter (approx. 10% arrestance).
21. Flex duct – Plastic fabric duct with a spiral wire support. It is used extensively in the Western U.S.
22. HEPA—High Efficiency Particulate Air
23. HVAC—Heating, ventilation and air-conditioning
24. IAQ—Indoor Air Quality
25. MSDS—Material Safety Data Sheet
26. Make-up Air – Fresh “outside” air that is brought into a Commercial building.
27. NADCA-National Air Duct Cleaners Association
28. NAFA – National Air Filter Association
29. NIOSH—National Institute for Occupational Safety and Health
30. Negative building pressure – A condition that allows air to flow into a building when a door is opened.
31. NSC -- Nevada Safety Counsel
32. NSF International – An independent testing laboratory for Air filters
33. OSHA—Occupational Safety and Health Administration
34. Positive building Pressure – A condition when air will come out of a building when a door is opened.
35. Re-entrainment – The flow of dust and debris removed from an air system back into the same building
36. Return/Return Duct
37. Sanitizer – A material designed to kill mold, bacteria, and viruses.
38. Sick Building Syndrome – A group of symptoms such as headache and watery eyes that disappear after the sufferer leaves the building for a few hours.
39. Supply/ Supply Duct—The opening and related ductwork that delivers conditioned air to a room.
40. VAV—Variable air volume system – A system that varies the amount of flow of air to regulate temperature.
41. VOC’s—See “Volatile Organic Compounds”
42. Volatile Organic Compounds (VOC’s)—Chemicals that release gasses into the air such as solvents.



# LIMITED WARRANTY

## VENT VAC III

Air-Care warrants this product to be free from defects in materials and workmanship to the original purchaser for a period of Three (3) years from the date of purchase. Components listed below are excluded from this Three year period and are covered for periods described below:

Vacuum Motors	1 Year
Circuit Board & Remote	1 Year
Speed Controller	1 Year
Hose & Motor Assembly	90 Days
Brushes, Wheels, & Filters	No Warranty

Warranty covers both parts and labor (labor is to be performed at Air-Care’s facility located at 3868 E. Post Road; Las Vegas, Nevada).

Warranty is extended to the original purchaser and is **not** transferrable.

This warranty does not extend to any damage to a product caused by or attributable to freight damage, abuse, misuse, improper or abnormal usage. Warranty is also void if the product has been modified or altered in any way.

The purchaser is responsible for the cost of shipping the equipment to Air-Care’s facility for evaluation. If found to be defective and covered by the terms of this warranty, Air-Care will pay FedEx ground shipping charges on the repaired or replaced item back to the purchaser’s location. Any additional expedited service charges for quicker shipping shall be born by the purchaser. If the product or component is not found to be a warranty issue, the purchaser will be responsible for return shipping charges.

Air-Care is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with the use of performance of the product; damages with respect to any economic loss, loss of property, loss of revenues or profits, loss of use, or other incidental or consequential damages of whatsoever nature.

The warranty extended hereunder is in lieu of any and all other warranties, and any implied warranties of any type.

This warranty gives you specific rights. These rights and others vary from state to state.

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# **Air-Care**™

**INDOOR AIR QUALITY SPECIALISTS**

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