



# Dual Fogger

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

## OPERATING INSTRUCTIONS & PARTS MANUAL

Part Numbers:  
FG0174 120 Volt  
FG0165 220 Volt



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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.

# 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 suspected damages may void warranty.

## Check that all parts are present

- |                                      |                              |
|--------------------------------------|------------------------------|
| ① Nozzle Head with 2 button valves   | ⑥ Shoulder Carrying Strap    |
| ② 6' Flexible Hose                   | ⑦ Tank labels                |
| ③ 2 Large Gasketed Caps              | ⑧ Easy Grip Handle           |
| ④ Rotationally Molded Dual Tank Body | ⑨ Air Intake Filter          |
| ⑤ 3 ft. Grounded power cord          | ⑩ Hose & Nozzle Storage Hook |
|                                      | ⑪ FOG ADJ                    |



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## 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.

- The Dual Fogger can retain pressure in the tanks after it has been turned off. If a button is pressed some fluid may be discharged from the nozzle. Briefly loosen each cap and retighten it to prevent this discharge.
- If the Head of the Dual Fogger is stored below the level of the liquid in the tanks AND one or both of the buttons are left where they can be pressed by a nearby object, liquid can be siphoned out of the nozzle. It is always best to place the Nozzle in the holder or through the handle to prevent accidental discharge.
- Other than the washable bottom filter, and rinsing harsh chemicals out of the Fogger tanks after each use, there are no user serviceable components in Air-Care Dual Fogger. Only trained technicians should attempt to make internal repairs on this equipment.
- Always unplug the power cord before adding or dumping chemicals or water from the tanks.
- Inspect AC power plug to be sure the ground pin is 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 Air-Care Dual Fogger 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

## Testing, set up and Duct Cleaning with the Dual Fogger

The Air-Care Dual Fogger operation is similar to the Standard single tank fogger but with some added features for convenience and trouble free performance.

The Tanks are labeled “A” and “B” for identification of the 2 products being used.

The Nozzle Head has separate valves Marked “A” and “B” for dispensing the desired chemical.

When switching from one chemical to the other, there will be about 5 to 10 seconds where a residual amount of the first chemical may be dispensed with the second chemical.

The adjusting knob will regulate the droplet size and flow from 0-50 microns and from 0-7 GPM (gallons per minute). Rotating the knob to the right (CW) reduces the droplet size, and rotating it to the left increases droplet size. Once adjusted, the knob can remain at the desired setting. The flow is shut off by the push button valves when released. The Valves use Chemically Resistant VITON seals.

If you are dispensing 2 chemicals that are compatible, you can press both buttons at the same time and they will both be fogged as a mixture. Check your labels and MSDS sheets for compatibility.

When the Valve is released for either tank, the flow is shut off. This will protect the motor from moisture contamination and premature failures due to moisture. However, there is some residual pressure in the Tanks that may allow some liquid to discharge if a button is pressed, even with the Motor OFF.



It is recommended that you keep the fogger upright, but if it accidentally tips over in the service vehicle, unlike other foggers, the Air-Care Dual Fogger has a unique Check Valve system that prevents liquid from entering the motor area through the tank pressurization system.

Find a large open area where the fogger can be tested. Be careful that no people are in the test area. You can test the fogger with water or the Duct Cleaning chemicals that you will be using, such as Soot Set, Envirocon, or Odor Kill. Each tank holds 1 gallon of product, but most jobs only require a quart or two of each.



Plug the fogger into a grounded AC socket. Point the fogger nozzle into the open, unoccupied area and turn on the motor with the toggle switch. Press the "A" button. It will take a few seconds for the liquid to reach the nozzle the first time it is used. Adjust the fog for your application. A fine mist will be carried farther while a heavy mist will transfer more liquid to the surfaces close to the fogger head.

There is no need to close the valves when not in use due to the Dual Fogger's unique self closing valve system. Do NOT lay the nozzle on the floor, even with the Motor OFF, when a button is accidentally pressed, it can discharge liquid from the end of the nozzle and it can siphon more liquid from the tanks if allowed to lay there with the button pressed by an object in the area.

Release the "A" button and the flow from the "A" tank will stop. Now press the "B" button and after a few seconds the same volume of fog will be produced with the product from the "B" tank. Release the "B" button and the fog will stop. You will continue to have dry air flow from the nozzle until the power switch is turned off.

A fine fog applied for 10 to 30 seconds is usually sufficient to coat the ducts for one supply opening in a residential duct system. Larger ducts for returns or in commercial systems will require longer application of material. The Dual Tank fogger can also apply a fine mist to the interior surfaced of the Air handler, Return box and other surfaces.

Follow directions on the chemical product labels for sequence and amounts of each to use. For information on Air-Care products, call Tech Support at 800-322-9919.

## Maintenance

The Air-Care Dual fogger requires a minimum amount of maintenance, normally limited to cleaning of the motor air intake filter on the bottom as it becomes dirty, and rinsing out the tanks and nozzle at the end of each work day with clean water. It is always beneficial to keep the exterior and interior of the machine clean. Only a qualified technician should perform all electrical or mechanical repairs.

### Included Parts and Accessories for Air-Care Dual Fogger

Ref #	Description	Part #
1	Dual Tank Fogger for 120 Volts	FG0174
2	Dual Tank Fogger for 220/240 volts 50/60 Hz	FG0165
4	Motor, 120 Volt	M0001
5	Motor, 220 Volt	M0003
	Nozzle Head Support, Black ABS, 2" wide	COM0407
6	Nozzle	SAO0352
7	Nozzle housing assembly, complete with valves (Viton seals), push buttons, flow regulator and nozzle. Hoses and tubing are NOT included	SAO0374
8	Push button assembly for valves, White button and brass retainer	COM0416
9	Push to connect, 90 Degree Elbow to 1/8" NPT male fitting (3 required)	COM0456
10	Dual Tank Fogger Operator's Manual (This Document)	MM0162
11	Check Valve	COM0455
	1/4"OD x .160" ID, Clear Tubing (Sold by the foot, 5 ft for nozzle, 1 foot for Tank pickup and Check Valve)	COM0419
12	Screw-on Caps for tanks	COM0404
13	8-32 x 1/2" screw for Cap Lanyards	NBS0071
14	Lanyard for Tank Caps	COM0361
15	2" x 60" Reinforced, Flexible Hose	SAO0351
16	2" Threaded Cuff for 2" Hose (Must be cut in half and used on both ends)	COM0413
17	Gasket Material, 1/16" x 1/2" for Fogger head, (2 ft required)	CALL
	10-32 x 1- 1/4" Screws to hold Top to Motor	NBS0169
18	10-32 x 1" screws to hold Top cover to Tanks (4 Required)	NBS0097
19	10-32 x 3/8" SS Screws for Bottom Cover and Tank Locking Plates (8)	NBS0170
20	Power Cord with ground pin, 18/3 x 3 ft	EC0079
21	Power Switch, SPST toggle	COM0462
Not Shown	Air-Care Resource CD	SAO0009
22	QUICK START Sheet for Dual Fogger	MM0170

## Specifications

Specification	Description
<b>Size</b>	8 ½" wide, 19 ¾" long, and 11 ½" high.
<b>Weight</b>	13.6 lbs
<b>Tank Capacity</b>	<ul style="list-style-type: none"> <li>• 1 gallon in each of 2 tanks</li> </ul>
<b>Fogging Rates</b>	<ul style="list-style-type: none"> <li>• Fine droplet size 0-50 microns, Flow from 0-7 Gal/min.</li> </ul>
<b>Power requirements:</b>	<ul style="list-style-type: none"> <li>• 115 Volt AC, 60Hz, 10 AMPS (Optional: 220/240 Volt, 50/60 Hz, 5 AMPS)</li> </ul>
<b>Power Cords</b>	Attached, 3 foot long
<b>Filtration</b>	Washable Electrostatic Flexible air intake filter on Bottom of motor
<b>Operating Environment</b>	25 to 125 Deg F (-4 to 50Deg C)
<b>Construction</b>	Rotation Molded Poly Body (2 tanks and one top cover)
<b>Operating Controls, DuctMaster</b>	<ul style="list-style-type: none"> <li>• Auto Shutoff push button valves (2) for liquids</li> <li>• Power Switch for Motor</li> </ul>
<b>Motor Air Flow</b>	110 CFM
<b>Static Pressure</b>	100 Inches W.G.
<b>Motor</b>	Two Stage universal air mover with brushes

**All Prices and Specifications are subject to change without notice**



# Air-Care Dual Fogger Troubleshooting Guide

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

1. Be sure the power cord has its ground pin intact and is plugged into a grounded outlet that has power. (Plug in a lamp or other device and be sure it works properly).
2. Check that the washable BOTTOM air filter is clean.
3. Verify there is at least a quart of liquid in each tank

<b>Symptom</b>	<b>Possible Causes</b>	<b>Suggested Action</b>
Motor does not run	<ol style="list-style-type: none"> <li>1. There is no power at the wall socket</li> <li>2. The power cord has a broken wire</li> <li>3. The Switch is bad</li> <li>4. The motor is bad</li> </ol>	<ol style="list-style-type: none"> <li>1. Verify the outlet is good by plugging in a lamp or other device.</li> <li>2. Call Air-Care Tech Support</li> <li>3. Call Air-Care Tech Support</li> <li>4. Call Air-Care Tech Support 800-322-9919 or 702-454-5515</li> </ol>
Circuit breaker in building trips.	<ol style="list-style-type: none"> <li>1. There is a short in the Power cord or motor.</li> </ol>	<ol style="list-style-type: none"> <li>1- Unplug and do not use</li> <li>2- Call Air-Care Tech Support               <ul style="list-style-type: none"> <li>• 800-322-9919 or 702-454-5515</li> </ul> </li> </ol>
Excessive noise.	<ol style="list-style-type: none"> <li>1. The motor may have worn parts</li> </ol>	<ol style="list-style-type: none"> <li>1. Call Air-Care Tech Support               <ul style="list-style-type: none"> <li>• 800-322-9919 or 702-454-5515</li> </ul> </li> </ol>
The Motor runs, but there is no fog coming out	<ol style="list-style-type: none"> <li>1. Is there at least a quart of liquid in the tanks?</li> <li>2. Does it work with One tank but not the other?</li> <li>3. Look into the tanks; is there visible sediment or dirt in the tanks?</li> <li>4. Have you tried all of the fixes?</li> </ol>	<ol style="list-style-type: none"> <li>1A. Yes – go to next step</li> <li>1B. No – add water to both tanks and test.</li> <li>2. Are both Lids screwed on properly? If not, tighten them and test again.</li> <li>3. If sediment is present, dump the tanks and wash with clean water several times and test again.</li> <li>4. Yes, Call Air-Care Tech Support 800-322-9919 or 702-454-5515</li> </ol>
There is a leak somewhere.	Be sure the tank covers are on tight.	<ol style="list-style-type: none"> <li>1. If the tank covers are on tight, call Air-Care Tech Support 800-322-9919 or 702-454-5515 <a href="mailto:info@air-care.com">info@air-care.com</a></li> </ol>

## Glossary & Acronyms

1. ASHRAE—American Society of Heating, Refrigerating, and Air Conditioning Engineers
2. Air Handler/ AHU—The Furnace or air conditioner that heats, cools and moves the air.
3. Antimicrobial—Agent that kills Bacteria, Molds and viruses. See “Sanitizer
4. Arrestance – An ASHRAE standard procedure to measure air filter efficiency (52.1)
5. Bioaerosols— Molds and bacteria that are found floating in the air.
6. Biological Contaminants— Bacterial, Mold/Fungus, viruses and their waste, byproducts and decomposition materials that can be inhaled and cause many types of health effects.
7. CFM—Cubic Feet per Minute, a measure of how much air is flowing in an air system.
8. CO—Carbon Monoxide, an odorless, toxic gas produced during combustion.
9. CO<sub>2</sub>—Carbon Dioxide an odorless, non-toxic gas produced during combustion and exhaled by people.
10. Ceiling Plenum – The area above a suspended ceiling that may be used as a return path to the Air Handler.
11. Conditioned Air – The air that has been filtered, heated or cooled by the air handler.
12. Contact Cleaning—Cleaning ducts by use of direct brushing of the surface and local vacuum collection of the debris.
13. Dampers – Flaps or valves in the air duct that control the amount of airflow in the duct.
14. 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.
15. DOE— US Department of Energy. This department measures Energy Efficiency and publishes standards.
16. Duct – A metal, plastic or fiberglass tube that transports air to and from the Air Handler. They can be round, square or rectangular.
17. Duct Board – Compressed fiberglass material used to make air ducts, particularly in the southern U.S.
18. Duct Leakage Testing—Tests for Energy Loss of Heated and cooled air that wastes energy and reduces comfort.
19. 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.
20. Energy Star—US government program that gives its seal of approval to Homes that meet its Energy Efficiency standards,
21. EPA—Environmental Protection Agency
22. Fiberglass Filter – A disposable, very low efficiency filter (approx. 10% arrestance).
23. Flex duct – Plastic fabric duct with a spiral wire support. It is used extensively in the Western U.S.
24. FPM—measurement of air speed, Feet per Minute. A 12” x 12” duct with 300 FPM air speed has 300 CFM of Flow.
25. HEPA—High Efficiency Particulate Air
26. HVAC—Heating, ventilation and air-conditioning
27. IAQ—Indoor Air Quality
28. MERV – An ASHRAE method for testing Filter Efficiency, Minimum Efficiency Rated Value (ASHRAE 52.2)
29. MSDS—Material Safety Data Sheet. After 2014 they will be called SDS sheets and will be used internationally with the same format.
30. Make-up Air – Fresh “outside” air that is brought into a Commercial building.
31. NADCA-National Air Duct Cleaners Association
32. NAFA – National Air Filter Association
33. NIOSH—National Institute for Occupational Safety and Health
34. Negative building pressure – A condition that allows air to flow into a building when a door is opened.
35. NSF International – An independent testing laboratory for Air filters
36. OSHA—Occupational Safety and Health Administration
37. Positive building Pressure – A condition when air will come out of a building when a door is opened.
38. Re-entrainment – The flow of dust and debris removed from an air system back into the same building
39. Return/Return Duct
40. Sanitizer – A material designed to kill mold, bacteria, and viruses.
41. 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.
42. Supply/ Supply Duct—The opening and related ductwork that delivers conditioned air to a room.
43. VAV—Variable air volume system – A system that varies the amount of flow of air to regulate temperature.
44. VOC's—See “Volatile Organic Compounds”
45. Volatile Organic Compounds (VOC's)—Chemicals that release gasses into the air such as solvents.



# LIMITED WARRANTY

## AIR-CARE DUAL FOGGER

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 (3) year period and are covered for periods described below:

Carrying Strap	No Warranty
Vacuum Motor	1 – Year
Mechanical Parts	90 – Days

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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