ActiveAir™ Blower

Please read these instructions thoroughly before attempting to install, operate or maintain this product. Failure to comply with these instructions could result in personal injury and/or property damage. Retain these instructions for future reference.

DESCRIPTION

Hydrofarm ActiveAir™ blowers are single-speed blowers designed primarily for exhausting and ventilating. They are driven by 4-pole (60, 95 and 180 CFM size) and 4-pole, open shaded pole motors (265, and 465 CFM sizes). Maximum ambient temperature for operation is 180°F (83°C). Hydrofarm ActiveAir™ blowers are UL-listed and CSA-certified.

INITIAL INSPECTION

After opening carton, look for any obvious or concealed damage that may have occurred during shipping. If damage is found, immediately file a claim with the carrier.

GENERAL SAFETY INSTRUCTIONS

1. ActiveAir blowers are equipped with heavy-duty grounded power cords. It is important that the blower be plugged into a properly grounded AC outlet. If your AC outlet is not grounded (three-prong), a ground adapter must be used and properly affixed to the outlet. NEVER remove the ground prong from the power plug in order to attempt to use the blower where grounded AC outlets are unavailable. If there are no grounded outlets available, have them installed by a qualified electrician.
2. Always disconnect the blower from the power source (AC outlet) before servicing or working with it for any reason.
3. Use caution when near the blower's impeller (the silver slotted "wheel" inside the blower's housing). Once the blower's outlet is covered via mounting the blower or attaching ducting, the safety intake grill effectively protects the user's hands from injury. Do not remove the safety intake grill (except for occasional cleaning once the blower has been safely disconnected from the power source).
4. Protect the blower's power cord from contact with any sharp objects, oil, grease, chemicals, or hot surfaces. Do not kink the power cord.
5. Use caution when touching the exterior of an operating blower. Modern electrical motors are built to operate at higher temperatures and may be hot.
6. Use only approved cleaning agents to clean electrical or electronic equipment.
7. Do not use the blower in the presence of any flammable vapors.

INSTALLATION

1. The blower can be mounted in any position. Make certain when mounting/installing the blower that the surface it is being attached to can safely bear its weight. Lighter materials such as drywall and acoustical ceiling tiles are not strong enough. It is strongly recommended that a wall stud, ceiling beam, or other strong wooden part of the structure be used in some way for anchoring. See special instructions for horticultural use for more information.
2. Again, we emphasize the importance of plugging the blower into a properly grounded AC outlet. If your AC outlet is not grounded (three-prong), a ground adapter must be used and properly affixed to the outlet. Never remove the ground prong from the blower's power plug to attempt to use the blower where grounded AC outlets are unavailable.

MAINTENANCE

Hydrofarm ActiveAir blowers are lubricated at the time of manufacture and need no further lubrication maintenance. When used properly, they will provide many years of continuous, flawless operation. The only maintenance that may be needed is occasional cleaning of the safety intake grill if it should become clogged with lint or other debris. To clean it, disconnect the power cord from the power outlet and then remove the small bolts which secure the grill to the blower housing. The grill can then be cleaned. Do not use solvents to clean the grill, as they may damage the paint as well as present a hazard from fumes when the grill is reattached.

NOTE

CFM Airflow ratings are based upon "non-flanged" units. If you are using a fan without 4" ducting, CFM can be higher if the flange is removed. This is not recommended however, as it will also eliminate the safety grill.

LISTED

warranty

All ActiveAir blowers are guaranteed to the original owner for one year from the date of purchase. Save your receipt/invoice; a copy is required for all warranty work. Misuse, abuse, or failure to follow instructions are not covered. If you have a problem, and are using the blower with a timer, check the timer and AC power source to be certain that they are working properly. If you must return the blower, call the place of purchase for return authorization and replacement.

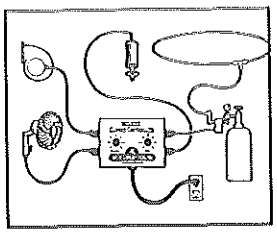
Instructions for horticultural use of the Hydrofarm

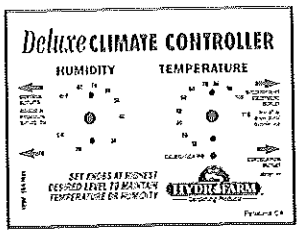
ActiveAir™ Blower

Hydrofarm ActiveAir blowers are excellent for exhausting the air from your grow room. This is critical for your plants' health in indoor horticulture. Without removal of the humid, hot, CO_2-depleted air, humidity will rapidly build up to the point where unhealthy conditions are created. This can allow fungal diseases to get established. In addition, photosynthesis will slow dramatically if new, CO_2-rich air is not regularly introduced, and this will also slow the growth of the plants. Finally, regular exhausting of the grow room's air also helps to control the temperature in geographical areas where high ambient (outdoor) temperatures contribute to the grow room's temperature rising into the range of 80°–90°F and beyond. In this situation it will also help to use an intake fan for cooling and/or set the lighting cycle so that the lighting is on primarily during the night, when ambient temperatures are cooler.

Ideally, a blower should be able to exchange the air in a grow room in three to five minutes. To calculate how long it will take for the air in your grow room to be exchanged, simply figure the cubic feet of your room (multiply length by width by height: a room 10' x 10' x 8' high is 800 cubic feet) and compare it to the CFM (cubic feet per minute) rating of your blower. In the example of the 800-cubic-foot room, our 180 CFM blower would exhaust the air in approximately 4.5 minutes. Con- nect the blower to a grounded timer and set it to give you one or two short periods of on-time per hour, depending on how much humidity your grow room tends to generate. Most mechanical (analog) timers on the market use pins which provide time increments of 30 minutes. There are also digital timers that allow you to create custom on-time settings (such as five minutes on, twice an hour, 24 hours a day).

Hydrofarm sells a programmable digital timer with eight on/off settings per day.



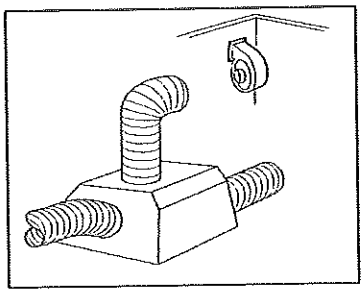


Another option is to use Hydrofarm's Deluxe Climate Controller, which combines a humidistat and thermostat with AC outlets. You simply set the desired limits of humidity and temperature, plug your blower into one of its two control outlets, and the blower is then activated by any rise in humidity and temperature beyond the threshholds you set. The blower is then turned off again when humidity and temperature are returned to below maximum.

If you are using the blower for exhausting, install it up high near the ceiling if possible. Because heat rises, this will help in exhausting the hot, humid air. The blower can be mounted in any position, but make certain when mounting it that the surface it is being attached to can safely bear its weight. Lighter materials such as drywall and acoustical ceiling tiles are not strong enough. It is strongly recommended that a wall stud, ceiling beam, or other strong wooden part of the structure be used in some way for anchoring.

The exhausted air (coming from the outlet of the blower) must be directed completely out of the building for the process to be 100% effective. The ideal installation is one where the blower can be mounted up near the ceiling to a wall where a hole matching the dimensions of the blower's output flange has been cut. (With this method of installation, it is recommended that a fine-mesh screen be put between the blower and the hole to prevent insects from entering the grow room via the fan. If this is done, however, you must remember to remove the blower periodically and check the screen for congestion.) Alternatively, many indoor gardeners attach one end of a 4-in. dryer vent hose or heater ducting to the blower outlet and then place the other end somewhere else where the exhaust can be let out, such as a modified window. Again, directing it completely out of the structure is ideal. In some cases indoor gardeners have had success with directing the exhausted air into another room of their apartment or house, but we do not recommend this.

ActiveAir blowers can also be used to exhaust heat away from our Sunburst or Super Grow Wing fixtures. This is done using our exclusive fan adapter flange mounted on the blower's intake, which allows the attachment of a vent hose. The other end of the vent hose is attached to a reflector flange that is mounted over a vent in the reflector hood. Venting the light fixture extends the life of your fixture and bulbs by preventing heat buildup.



FLANGE MOUNTING DIAGRAMS

Mounting Hole Size ¼"