



Moisture Solutions

Humidex/AVIR Moisture Control & Ventilation Installation Guidelines Summary

Your reputation and ours, depends on your compliance with the Installation Guidelines. Please review the entire Installation Guidelines included in the Owner's Manual very carefully. It is essential for the unit to be installed properly for it to operate effectively.

Please read the key points below and contact us for any questions.

Go to <https://youtu.be/XRsSnC0Mu9A> to view the installation video.

How Unit works:

- Expels the cold, damp and polluted air mass from the basement/crawlspace area
- Replenishes it with drier and conditioned air from upstairs
- Ventilates with a continuous air flow to prevent stagnation and saturation

Sensor controls will determine ventilation rate based on relative humidity. As warmer and drier comes down, relative humidity will be lowered and unit will automatically go to a lower maintenance speed, but never shutting off.

The flow of air will extract moisture in the structure.

The natural stack effect of air flow is reversed so that air will no longer go up from the basement into living area, but rather air will be drawn down and pulled to the outside.

Performance is maximized with unobstructed air flow and adequate replenishment air.

Summary: KEY FACTS FOR INSTALLATION

- Unit should have maximum open unobstructed area around it to expel the most amount of air.
- Unit must be installed at floor level (not higher than 3") where the relative humidity and pollutants are most concentrated.
- **Replenishment air must flow from upstairs into the basement or crawl space.** (This does not apply for slab homes, and condos). An open stairwell is adequate or use a 14" x 6" grill in the door, wall or floor to allow unimpeded air to flow down.
- **Do not allow the home owner the option of leaving the stairwell door open.**
- Unit should be installed as far away as possible from the source of replenishment air to maximize area of ventilation, reduce stagnation and extract moisture from the structure.
- Outside duct should be no less than 6" and dedicated only for the unit.
- To prevent air stagnation in closed off areas and ensure maximum circulation, a passive air grill should be installed at floor level, in wall or door, where there are rooms, partitions or closets.
- **Unit should not be installed within 8' ft. of combustion appliances.**

Note: Crawl Space

Air vents in the crawl space to the outside must be sealed to ensure that the replenishment air is coming from the upper levels of the house, and not from the outside. The Booster fan will keep the air pressure in equilibrium and the placement of it, as far as possible from the unit, increases air flow and drying out of the entire crawlspace.

Other recommendations for Crawl Space application:

A vapor barrier installed on top of a dirt floor in crawl space would reduce the amount of moisture evaporating from the ground into the crawl space.

Insulating ducts and pipes will reduce condensation.

Note: Baseboard

If there is a baseboard that interferes with installing unit at no higher than 3", unit can be mounted in front of the baseboard by use of wood behind flanges of unit to secure unit to the wall. If small ledge exists, the same process can be used, building unit out with wood and securing to wall.

REPLENISHMENT AIR

The damp air must be replaced by the warm/drier air from upstairs and not with the humid air from outside. Therefore, doors and windows in the basement should be closed in hot, humid season, minimizing outside air infiltration.

DUCTING

Unit comes in two sections that allow for flexibility in positioning the duct at the most convenient height. In the case where the height clearance is less than 7', the top of the bottom section can be cut down to a maximum of 20" inches with a cutter, for a total minimum height of 68".

You can duct from the back of the unit, or from the top of the unit by removing the top cover. Duct can go through the window, wall or between the floor joists. All necessary parts and outside louvers are included.

- Duct should be vented above ground level to the outside or below ground into a window well that is open and not sealed off to the outdoors.
- Duct has to be dedicated and not combined with any other existing ductwork in operation.
- Not more than one turn with the duct, and duct work should not be longer than 3 ft. in total.
- When circumstances are that a longer span is required, then use rigid ducting from the inside of the unit to the wall. (up to 12 ft allowed) The rigid duct will improve the airflow to compensate for the additional distance the air has to flow to reach the outside.

PLEASE READ MANUAL FOR DETAILED INSTALLATION INSTRUCTIONS AND START UP INSTRUCTIONS

Please sign below your acknowledgement that you have reviewed the material and submit to your HQ Hometek sales representative.

FOR ASSISTANCE CALL:

US Office: 1-866-486-4339 Technical Assistance: 888-533-1348 ext 2

I have viewed the installation video and reviewed the installation guidelines.

Name Signature

Name Print

Company_____ Date_____