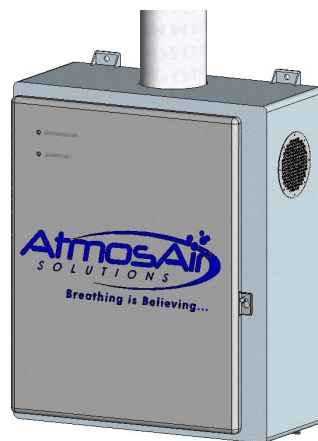




Breathing is Believing.SM

Installation Guide

AtmosAir 700 Series



Product Overview

AtmosAir has developed semi-custom ionization systems that are designed to be self-contained air purification / odor remediation solutions. These stand-alone systems provide ionized air to a treatment space without using an existing HVAC or air distribution system.

More powerful than AtmosAir portable systems, the 700 is the smallest in a group of stand-alone ionization systems. The 700 series has three main components that require inspection and maintenance:

1. AtmosAir 100 or 500 series base unit and ionization tubes inside the enclosure
2. Blower fan for air flow inside the enclosure
3. Distribution ducting

The systems are plug-n-play, requiring simply mounting onto a wall or with the use of mounting posts. They operate on 115 VAC power with the use of a single power cord, and can be simply plugged into a standard outlet.

Systems are typically semi-custom, and designed for the specific size and contaminants of the installation.

Product Diagram

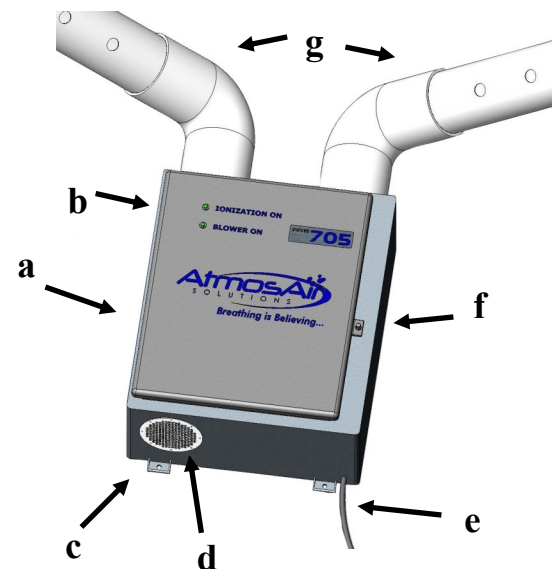
AtmosAir 700 System:

- a. Enclosure - fiberglass, NEMA 4X rating
- b. Status lights for the fan and ionization system
- c. Mounting tab (typical of 4)
- d. Inlet grill - optional filter and/or rain hood can be provided (location may vary)
- e. Power plug (location may vary)
- f. Lockable hasp (location and number may vary)
- g. Outlet and distribution ducting (location and number may vary)

Overall Dimensions: 24" H x 20" W x 11.75" D
Mounting Tabs:

- 18.75" Width - center to center
- 26.85" Height - center to center

AtmosAir 705 system with two angled distribution ducts.



Installation Overview

AtmosAir 700 series equipment can be mounted on a wall, or on mounting posts, using the four mounting flanges on the enclosure.

The enclosure is rated NEMA 4X, which protects the system from windblown dust and rain, splashing and hose-directed water. Note that the inlet grill is not protected from water unless a rain hood is employed. The box is also non-corrosive, with a sealed door.

Lockable hasps provide authorized personnel access only.

The AtmosAir 700 series operates on 115 VAC, 50/60 Hz, and is plug-n-play with a single plug for powering all components.

Read and follow the mechanical installation instructions written for your specific application to ensure optimal performance of the ionization system.

Mechanical Installation

1. Carefully remove the equipment from its shipping container. Inspect the main components, gasket, and tubes for damage. Verify that the available voltage is 115 VAC.
2. Install the ionization tubes using the supplied friction nuts and clamp screws. Tighten the tube grounding clamps to ensure solid contact with the tube's outer mesh. **Do not over-tighten either connection!** See tube installation instructions for further details.

3. **Location and Orientation:** Install the unit high against the wall in the center of the longest wall of the room. The elbows should sit near the ceiling, where the distribution ducts will be hung. The elbows should be directed at 45° angles out from the wall in both directions.

4. As the inlet grill is located on the bottom of the system, be sure there are no objects blocking the airflow to the inlet grill.
5. Mount the 700 series using the integrated mounting tabs. The center-to-center holes for mounting are 18.75" apart in width and 26.85" apart in height. The 700 series weighs approximately 40 lbs., not including the distribution ducting.
6. Units should be installed to allow easy access for operating and any maintenance required. Status lights on the outside of the box should be visible from standing level.

See the Tube Installation Instructions, provided at your request, for further details.

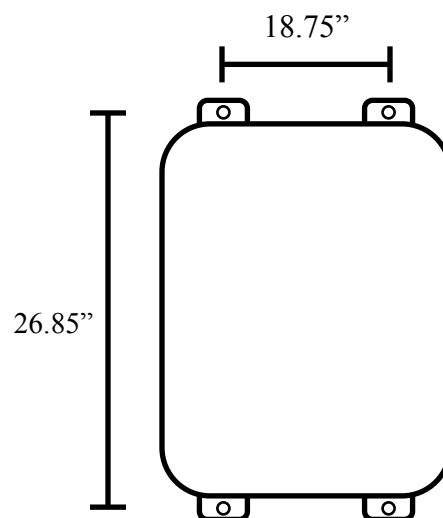
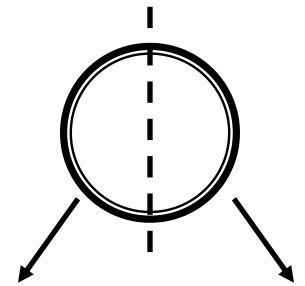


Illustration of the dimensions of the mounting holes.

Distribution Ducting Installation

1. Distribution ducting is constructed from 6" white, thin-walled PVC pipe, and is very light-weight.
2. The distribution holes are 1" in diameter and spaced evenly along the ducting in two rows. The ducting should be mounted such that two rows are both angled downwards at equal angles from the vertical centerline for ion projection and scavenging. See illustration to the right.
3. This 705 system has two flanges with elbows on the top of the enclosure. The elbows should be angled at 45° from the back of the enclosure. The two ducts will need to be installed into these elbows with PVC cement. Install the duct with the distribution holes oriented as described above.
4. Use one standard, threaded rod, lightweight pipe hanger for each duct. These should be installed at the tube-cap ends of the ducting, and anchored into a permanent ceiling.

Illustration of the distribution pipe section. Arrows indicate air flow and are normal to the distribution holes.



Electrical Installation

AtmosAir 700 series systems require approximately 200-300 watts. An internal 1-amp, fast-acting fuse protects the ionization unit.

Follow proper electrical procedures, guidelines, and codes for providing power to the systems, including requirements for conduit, sufficient ampacity, phase balancing, etc. Electrical installation should be performed by a qualified electrician.

Field-install a power plug outlet or junction box within 8 feet of the system.

Each 700 series unit is typically shipped with a single 10-foot power cord with a 3-prong NEMA 5-15 plug on the end. The plug can be cut off and wires stripped for junction box installations.

!!!WARNING!!!

The enclosure is equipped with a door switch for safety. The secondary voltage to the ionization tubes can be as high as 3000 volts AC. Do NOT defeat the door switch.

!!!WARNING!!!



The Clean Air Group AtmosAir Solutions

418 Meadow Street, Suite 204

Fairfield, CT 06824

Phone: 203-335-3700

Fax: 203-335-1075

--

2115 E. Cedar Street, Suite 6

Tempe, AZ 85281

Phone: 480-629-4784

--

www.AtmosAir.com

Breathing is Believing...

AtmosAir Solutions'™ mission is to bring and restore every indoor environment the same clean and pure quality air that is typically found at higher mountain elevations.

AtmosAir's unique and proven air purification process significantly reduces mold, controls the spread of bacteria and airborne viruses, and reduces airborne particles that evade normal filtration solutions. AtmosAir equipment uses non-thermal plasma technologies to generate bi-polar ionization that attacks and breaks down odors and contaminants.

www.AtmosAir.com

AtmosAir's Solutions

Commercial solutions start with the 500 series, available in two sizes: the 500F and the 500E. Each 500 series uses 5 tubes; additional systems can be used modularly to clean the air of



for smaller spaces such as residential housing and office spaces served by several smaller air handlers. This residential system can operate C tubes, depending on the size of the space.



small to large office or commercial buildings.

The D100 solution works well

Portable systems are an alternative solution for small spaces where use of the existing



AtmosAir 700 Series



air handler is not possible or practical. For smaller applications the lightweight Tower systems, the T400 and the wall-mountable T400WM (to the left), blend nicely into the space as easily as a stylish fan.

The P2000 or P2002 models distribute ions for a larger space, operating almost noiselessly as they clean the air.

Installation Guide

