

AirROS EQUIPMENT

HVAC INSTALLATION

General Description: The application of the AirROS technology has the objective of counteracting viral and microbial loads via the air with air purification systems that provide continuous sanitization within indoor public spaces and industrial process areas. The system performs a controlled activation of oxygen (O₂) molecules present in ambient air, generating via non-thermal plasma (NTP) marginal levels of reactive agents that are byproducts of oxygen which react with volatile organic structures (viruses, bacteria, mold, ethylene, unpleasant odors, etc.). Within the unit's reaction chamber, a combination of activated oxygen compounds are produced through a clean process that uses only stable provisions; ambient air and electricity and does not involve chemicals.

Configuration and installation: AirROS systems are configured according to the conditions of the area(s) in need of treatment, their volume (f³), temperature, process and product type and airflow source among other variables. The systems are typically placed inside of the area(s) to be treated in complement to air handling systems/HVAC where consistent airflow and a 110 V electrical outlet to energize the system are required. From the unit there is a diffusion line/ tube that is placed in front of the airflow, air supply systems / air movement (evaporators), necessary to distribute the sanitized air evenly within the substantially enclosed area.

Technical Description of Systems

The *AirROS* technology, consists of electromechanical equipment with high-end electronic components. The basis of operation is the use and activation of the ambient air combined with a low use of electricity through a clean process that does not use chemicals nor generating residues and is safe for use in the presence of people.

The main applications are:

- Biosecurity of common areas (offices and indoor spaces)
- Biosecurity and Food Safety of Process and Packing Rooms.
- Biosecurity and Food Safety cooling areas for Fruit, Vegetable and Flowers

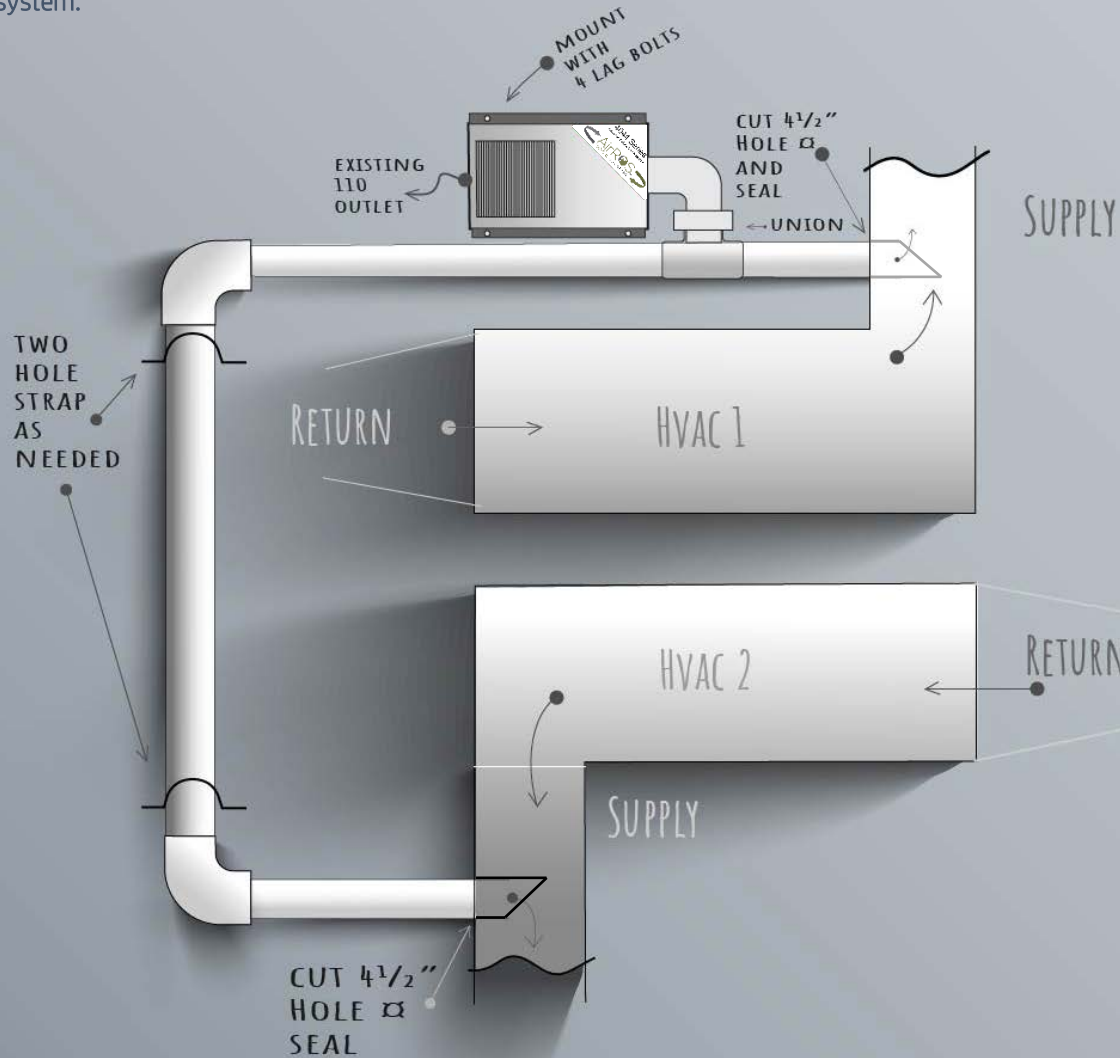
4000 Series basic technical specifications

Structure - Cabinet: Powder Coated Steel/Poly (depending on model)

Supply voltage: 110V

Power Frequency: 50/60 Hz

Each system:



For a two (2) duct system

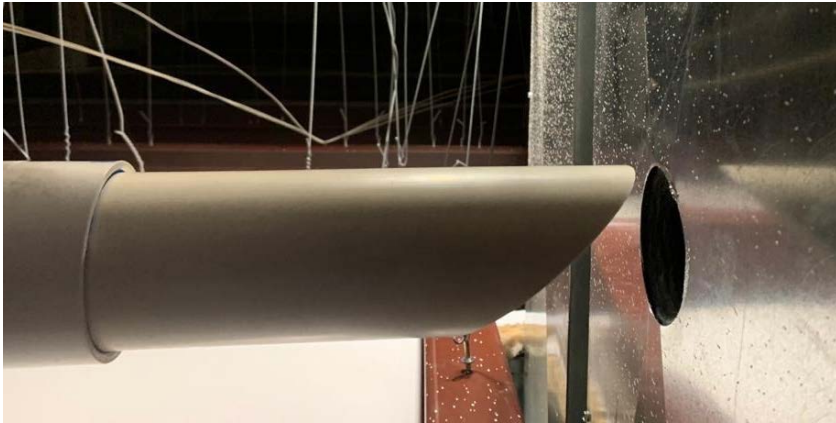
We specified 2 independent systems that will each interphase with 2 of your HVAC systems, so 1 unit for 2 HVAC systems.

The diagram on the left shows the customary method installation to optimize the sanitation process and delivery through HVAC.

Each purifier takes a single phase 120v plug which is available in the attic area. The systems consume very little electricity (<3amps/each). Each system weights 15- 80 lbs. and will be affixed with bolts to hold it in place near the ducting. (see equipment specs on page 5)

The output of each system will be connected via a schedule 40 PVC pipe to the ducts in the locations shown to the supply side.

Similar installation images example

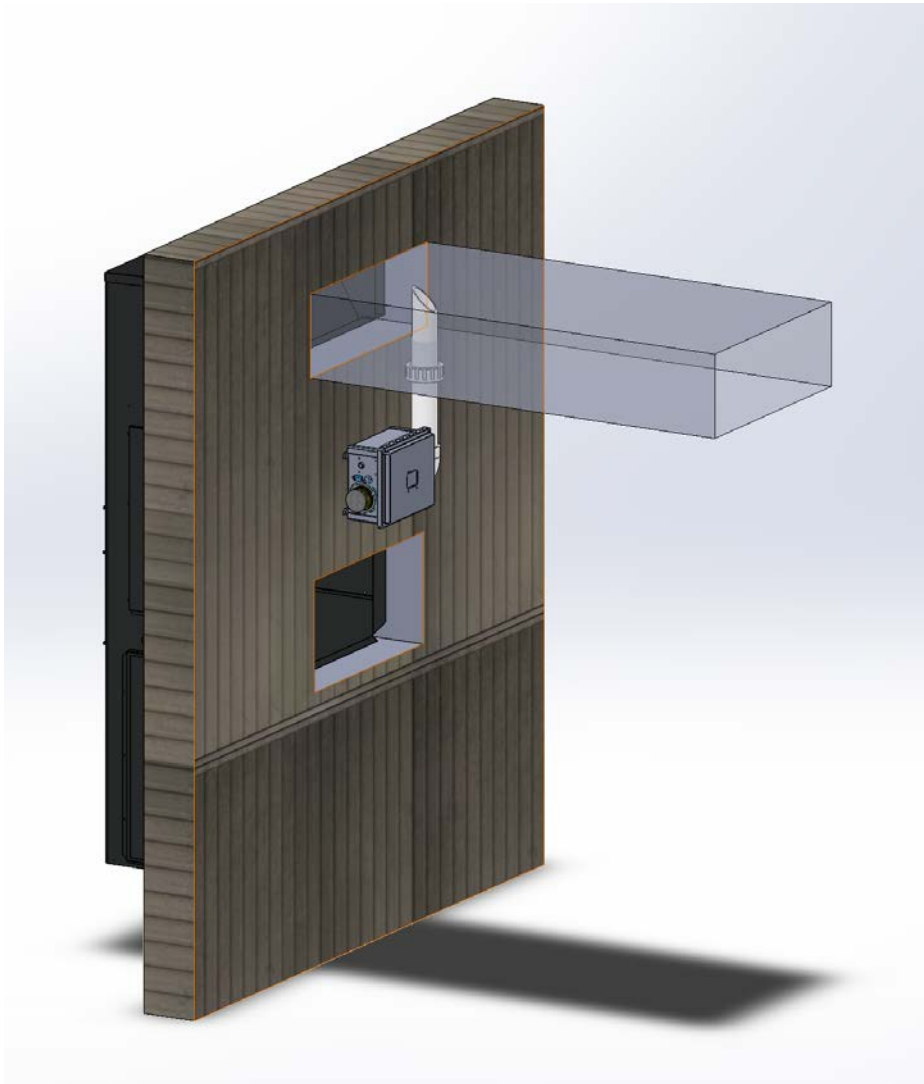
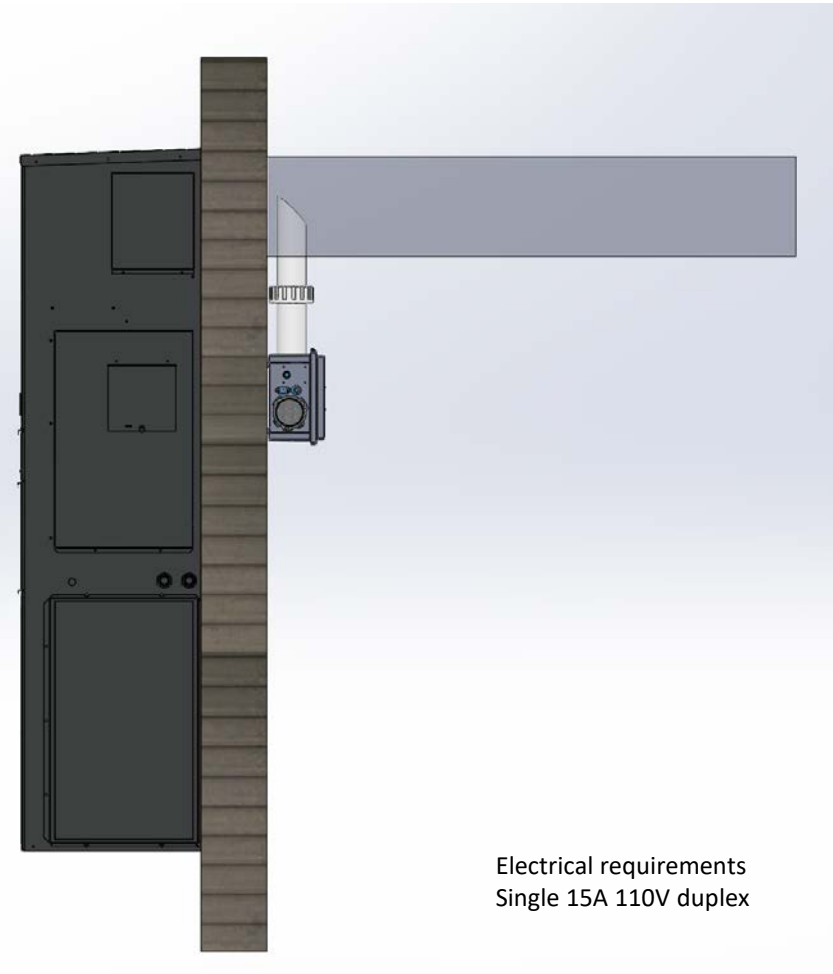


The output of each system will be connected via a schedule 40 PVC pipe to the ducts in the locations shown to the supply side.

The pipe end will have a diagonal cut to optimize the airflow from the HVAC and the entry point to the duct will be sealed as the image on the right shows.



Equipment usually goes above a sub-ceiling or dropped ceiling, or interstitial area connected to the ducting



Electrical requirements
Single 15A 110V duplex

