WELLAIR

INSTALLATION, OPERATION & MAINTENANCE MANUAL

NanoSoft PRIME

REV 04/2026

SKU 100070



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INTRODUCTION

The WellAir NanoSoft PRIME is an automatic self-cleaning needlepoint ionizer producing positive and negative ions neutralizing harmful pollutants and odors. This unit is highly versatile as it may be installed at the fan inlet of an air handling unit, fan coil unit, PTAC, heat pump or a VRF ductless split system. The device is self-contained in an enclosure with a molded flange, mounting holes and a set of magnets. Each ionization unit is capable of ionizing a supply airflow up to 2,400 CFM.

NO MAINTENANCE & SELF-CLEANING

The NanoSoft PRIME is engineered for continuous operation without the need for replacement parts. Its advanced self-cleaning design ensures consistent, long-lasting performance while eliminating the need for routine maintenance. The cleaning cycle will repeat every 24 hours.

MECHANICAL INSTALLATION INSTRUCTIONS

GENERAL MOUNTING CRITERIA:

WARNING: Do not connect to power before mechanical installation is complete.

WARNING: Explosion hazard. Do not remove or replace lamps, fuses, or plug-in modules unless power has been disconnected or area is free of ignitable concentrations.

WARNING: Explosion hazard. Do not disconnect while circuit is live or unless area is free of ignitable concentrations.

1. Mount the ionization unit in a location that allows easy access for inspection and general maintenance.
2. Install the unit at or near the fan inlet, using the holes in the mounting flanges. Ensure that the air stream flows evenly over both brushes at the same time (see Figures 1 & 2).
3. The ionizer should always be mounted downstream of the air filter.
4. For optimal performance, avoid mounting the unit directly after a cooling coil or humidifier, as excess moisture or temperature variations can affect ionization efficiency.
5. Maintain a minimum clearance of ¾ inch (19 mm) between the brushes and any surrounding metal surfaces or other obstructions.

Option 1: Screw Mounting

1. Select a clean, flat, and dry surface near the desired airflow location.
2. Position the ionizer and mark the screw hole locations through the mounting flanges.
3. Drill small pilot holes if necessary.
4. Secure the unit using the supplied screws.
5. Confirm that the ionizer is firmly fixed and correctly aligned before connecting power.

Option 2: Magnetic Mounting

1. Ensure the mounting surface is metallic, clean, and free from dust, oil, or paint build-up.
2. Place the ionizer in the desired position and allow the integrated magnets to hold it securely in place.
3. Verify that the unit is stable and properly oriented in the airflow.
4. Check that there is no movement or vibration during operation.

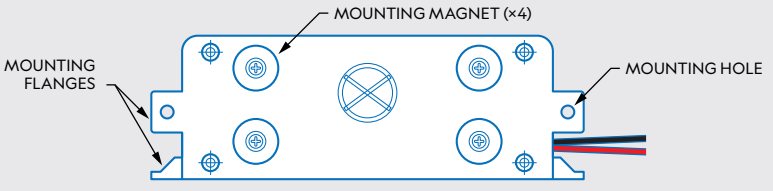


FIGURE 1

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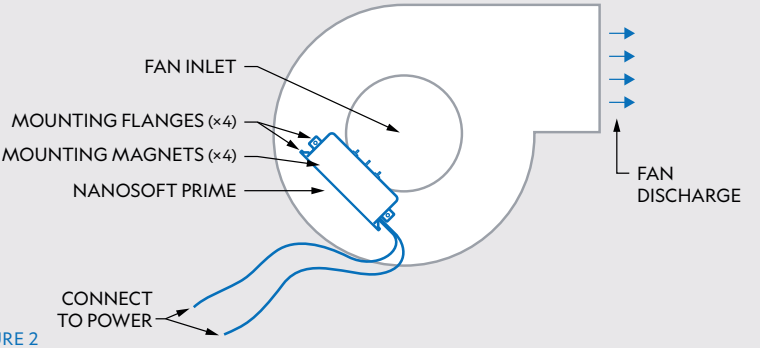


FIGURE 2

ELECTRICAL INSTALLATION INSTRUCTIONS

WARNING: Do not connect to power before installation is complete.Always disconnect power to the unit before handling the ionizer.

1. All field wiring to be in accordance with NEC and Authorities Having Jurisdiction (AHJ).
2. It is recommended that surge protection be installed with this ionizer at the equipment level, building level, or circuit breaker panel feeding the product.
3. If a step-down transformer is used to feed the ionizer, the transformer must be grounded.
4. Do not install the ionizer on the same circuit as a UV Lamp or connect to the same transformer as a UV Lamp.
5. Connect power to ionizer using appropriate voltage: AC24V–AC240V, 50/60 Hz. See Figure 3.
6. The installer shall provide a power source that is properly grounded per the local AHJ.
7. For best results interlock ionizer with fan control wiring.
8. Apply power to unit. When power is applied, you will hear the cleaning cycle activate. The total time for self-cleaning is 10 seconds approximately. Within those 10 seconds the unit does 5 vibration sequences in a row. This is a normal part of the start-up sequence and confirms the ionizer is operating.

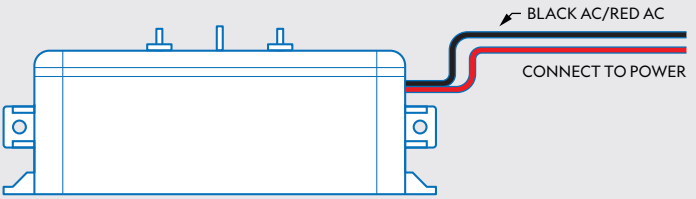


FIGURE 3

OPERATION

1. When power is supplied to the ionizer, the ionizer will be activated. The ionization unit is self-balancing and does not require any type of adjustment.

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TROUBLESHOOTING

If the unit is not working, check the following:

2. The supply fan is running.
3. Check the power input connections to the ionization unit. Verify all connections are correct and tightened. Reconnect any loose wires as necessary.

If no issues are found:

1. Turn the ionizer off and then back on again.
2. You should hear the cleaning cycle activate. The total time for self-cleaning is 10 seconds approximately. Within those 10 seconds the unit does 5 vibration sequences in a row. This is a normal part of the start-up sequence and confirms the ionizer is operating.

VALIDATED

• ZERO OZONE EMISSIONS – MEASURED OZONE EMISSIONS FROM NANOSOFT PRIME DURING USE PHASE DOES NOT EXCEED 0.005 PPM AS TESTED BY UL 867

UL.COM/ECV

FOR MORE INFORMATION USE THE FOLLOWING QR CODE:

The health aspects associated with the use of these products and their ability to aid in disinfection of environmental air have not been investigated.

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