Accessory Installation – FreshAire® IAQ

FreshAire® Purification: iWave M Series (APWM1)

Friedrich Floating Air Ductless with iWave M Series (APWM1) Installation Instructions

This product must be installed in accordance with the following directions by HVACR professionals only.

IMPORTANT: Disconnect all unit power supply before installing.

Installation Instructions:

The iWave-M is a highly versatile ion generating device that is designed to be typically installed at the base of the cooling coil for ductless and duct air conditioning systems; but the device can be installed in supply air as well. The iWave-M is an ideal, no replacement part device that can be integrated into wall or ceiling cassette indoor coils of mini-splits.   The 18 inch ion generating bar can be used for coils up to 36 inches wide. For coils beyond the 18 inch ionizer length, simply center the ionizer bar on the coil to make sure the ionization best covers the coil width. For coils shorter than 18 inches, see the section on iWave-M modification directions on the back page of the NuCalgon instructions shipped with the product.
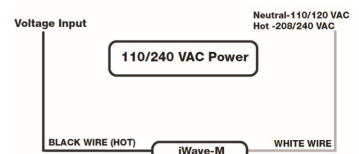
Mounting / Placement
To install:
1. First turn the power to the unit off.

2. Next open the front cover of the wall mount indoor unit and then remove the filter screens. (For Concealed Duct and Cassette units apply hook and loop in discreet location in the return airflow.)

3. Measure the length of the coil and affix the ionizer bar to a solid surface (often plastic) on top of the coil. If there is no plastic surface available, you may apply iWave M directly to the top of the fins. The width of the plastic region will easily accommodate the iWave M ionizer bar so it can easily treat the coil. You may also elect to attach iWave M with the provided hook and loop strip across the width of the coil near its base so the iWave-M treats the coil as well as the breathing zone. Using the hook and loop backing on the iWave-M attach this to the existing hook and loop strip on the unit. For ceiling cassette systems, attach the iWave-M directly to the edge of the blower wheel housing. See Figure 2 for location of the iWave-M.
    CRITICAL: Keep any metal from directly touching the emitters.

Power Supply Installation
5. Depending on mini-split model, the area available to mount power pack will vary. Either affix with hook and loop backing to back cabinet wall or side of coil.

6.   Run wires to the electrical compartment to hook up to 110VAC to 240VAC incoming power source to where iWave-M will power on continually. For 110/120VAC and 208/240VAC input, connect black wire (hot) and white wire (Neutral or Other AC Phase) to applicable electrical terminal block.

7.   Trim wires to length hook up to appropriate terminal connections and connect. Harness/secure wires within the equipment as necessary. The LED on iWave-M power pack will turn green when power is supplied.

Premier/Pro Series

8. Reassemble filter screens, close the front cover and turn on power to mini-split.

CAUTION: be sure the remaining wire leads are out of the way of the blower wheel prior to replacing the cover of the unit.

Select Series

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Figure 2: Affix the hook and loop strip supplied with the APWM-1 in the recommended location on the top of the cabinet to treat coil, blower and living space. If an alternate location is required, such as inside the cabinet, be sure strip is located on the top of the coil. Affix the power transformer to the top of the cabinet as well using supplied hook & loop.

Cleaning
Note: The iWave-M is designed to be a long term IAQ investment, not requiring ongoing maintenance. The ionizer bar can be cleaned if required, by utilizing a wet wipe or damp cloth. A small soft bristle paintbrush can also be used to clean debris from the ion emitters. Do not expose the APWM1 to corrosive cleaners. Contact NuCalgon for further guidance with coil cleaner options. (www.Nucalgon.com)

Warning
The health aspects associated with the use of this product and its ability to aid in disinfection of environmental air have not been investigated by UL LLC.

RISK OF ELECTRIC SHOCK. CAN CAUSE INJURY OR DEATH: DISCONNECT All ELECTRIC POWER SUPPLIES BEFORE SERVICING

Warranty
Friedrich is an authorized reseller of Nu-Calgon's iWave air cleaner. Friedrich does not imply or extend an offer of equipment warranty on iWave branded products. Please consult Nu-Calgon for iWave warranty administration.

Nu-Calgon iWave-M offers a limited warranty for three years that covers any defects in material or workmanship under normal use. If you make a claim during the warranty period, you must provide proof of purchase and proof of proper installation by a licensed contractor for the warranty to be valid. The iWave warranty does not cover labor, return shipping charges, damage from improper installation or improper voltage usage. The iWave warranty begins on the date that the unit was purchased. Installation of your iWave by any person other than a licensed contractor will void the warranty. Contact your local Nu-Calgon account manager or info@nucalgon.com with further questions.