

AEIRO PURE RAIL

Modular pulsed and tunable bipolar ionization device with Wi-Fi control designed for installation inside air handlers on cooling coils

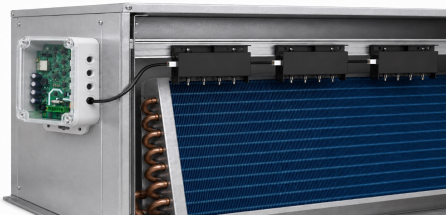
Rail Power Supply



Rail Ion Module



Typical Installation



STANDARD FEATURES

- Pulsed Ionization Output
- Tunable Ionization Output***
- WiFi controllable with subscription
- 2.4Ghz WiFi (Does not work with 5Ghz)
- Integral LED lights for ion polarity indication
- Carbon fiber brush ionization emitters
- Magnets included for easy mounting
- Mounting rails provided in 4ft sections
- 3 year extended warranty is included with monitoring subscription

MODULE QUANTITY

Rail (ft)	Rail (in)	Rail (mm)	Module Qty
2	36	609.6	3
3	60	914.4	5
4	84	1219.2	7
5	96	1524	8
6	120	1828.8	10
7	144	2133.6	12
8	156	2438.4	13
9	180	2743.2	15
10	204	3048	17
11	228	3352.8	19
12	240	3657.6	20

ENERGY SAVINGS

The Aeiro Pure Rail and a carbon filter may be used in conjunction with the IAQP. Contact Aeiro for application support.

PRODUCT DESCRIPTION

The Aeiro Pure Rail is a modular, low-profile ionization system designed for installation inside air handlers. The system mounts along the top of the cooling coil using an Aeiro provided mounting track, allowing each ionizer module to hang in position with the ion brushes directed downward into the airflow.

Each Aeiro Pure Rail power supply can support up to four ionization rails, with each rail configurable up to 12** feet in length. Individual ionizer modules are 6 inches long and connect end-to-end using short 1-inch connector cables, allowing the system to be sized for a wide range of coil widths and air-handler configurations. The power supply mounts outside the air handler and provides four low-voltage (12VDC) output connections for each of the ionization rails.

The Aeiro Pure Rail comes standard with Aeiro's pulsed ionization output, which alternates ion polarity with a factory-set pulse delay. This delay helps prevent opposite-polarity ions from canceling each other before they enter the airstream and occupied space. When installed at the cooling coil, the Aeiro Pure Rail is designed to help clean existing coil surfaces over time and help keep new coils cleaner by delivering ionization directly across the coil face and into the moving air stream. If WiFi is not connected or the subscription is not purchased, the unit will default to a general IAQ setting.

Unlike ionization systems that require external high-voltage wiring between the ionizer and external power supply, the Aeiro Pure Rail uses 12VDC low-voltage plenum rated wiring between the power supply and the ionizer modules, simplifying installation and reducing service complexity.

Input Voltage (Standard)	24VAC / DC
Input Voltage (Optional)	110-277VAC w/power supply
Power Consumption	<15 watts
Frequency	50/60 Hz
Total Ion Output (per 6" module)	>800M ions/cc (combined)
Airflow Capacity (per 6" module)	4,800 CFM (8,162m3/h)
Capacity in Tons	0-12
Temperature Range	0 to 140F (-18 to 60C)
Humidity Range	5-95% RH (non-condensing)
Output Electrodes	Carbon Fiber Brushes
WiFi	2.4Ghz
Unit Dimensions (WxHxD)	6 x 2.5 x 1 in (150 x 62.5 x 25mm)
Weight (per 6" module)	0.5 lbs (0.23 kg)
Electric Approvals	ETL, CAN/CSA
Compliance and Certification	FCC, RoHS, UL 867, UL 2998 Compliant, CARB*, Prop 65*

*Expected by Q4 2026

**Longer rails available with factory design assistance

***Tunable control requires a paid subscription