

Phenomenal Aire

iOngauge Meters

When it comes to measuring and monitoring the performance of Phenomenal Aire™ the options offered by TPI range from: inexpensive hand-held devices to permanent mounted and hard wired sensors that interface with third party Building Automation Systems (BAS).

iOngauge Series h is a hand held air ion counter. The unit is capable of measuring and displaying positive and negative ion counts as well as the differential between positive and negative ions.

iOngauge Series i-2.0 is designed for permanent installation in the duct or inside an air handling unit, downstream of any Phenomenal Aire™ ionization unit. The iOngauge i-2.0 includes sensitivity settings that can be set based upon application and installation location. Settings include: 20,000 / 200,000 / 2,000,000 ions/cc/sec.

iOngauge Series p is a plenum mounted ionization detector designed to confirm ionization output from Phenomenal Aire™ advanced IAQ products. The detector is supplied with an alarm relay that can be wired into the building management system.

iOngauge Series e is a wall mounted ion detector that takes air samples 24/7 and provides a 2VDC - 10VDC output for remote monitoring that correlates to a 0 to 10,000 ions/cc sensed level.

The advantage of TPI-VOC sensors is that they measures air contaminants from sources other than just respiration, such as: building materials, cleaners, perfumes, furniture and carpet off-gassing. TPI's sensors also indicate when a space is occupied similar to other industry sensors

Standard Features Include:

- Auto-Calibration
- Wide Sensing Range of Compounds
- Sensor Output Correlates to Standard DCV Algorithms

ion production



Indoor Air Quality (IAQ)



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Phenomenal Aire

Commercial Products Guide

Phenomenal Aire

Advanced IAQ technology for the built environment™.

Phenomenal Aire™ utilizes needlepoint bipolar ionization technology and is designed for installation as individual IAQ devices or as modular ionization systems in commercial heating ventilation and air conditioning systems (HVAC). The technology's air cleaning process enhances existing HVAC filtration, reducing airborne pollutants within the HVAC system and the occupied space.

Series C Universal™

The Phenomenal Aire Series C Universal™ from Top Product Innovations is an advanced modular ionization system. The technology is powered by needlepoint clusters™. Each needlepoint cluster™ generates up to 190 million positive and negative ions. The powerful clusters are housed in Universal Blades™. Each blade generates up to 4.2 billion ions per cubic centimeter per second. The Series C Universal™ comes standard with a single Universal Blade™ rated for treating up to 6,000 cfm of airflow.

To increase ion production, add a blade. The Series C Universal™ can use up to four blades to produce over 16 billion ions and treat 20,000 cfm of airflow. The all-plastic and carbon fiber construction allows the technology to be mounted in any environment regardless of corrosive chemicals in the air. In addition to its high ion production capacity and rugged design, the Series C Universal™ is easy to install. The built-in transformer and power selector switch cut down on wiring requirements, reducing time on site and reducing parts inventory in a technician's van.

The Series C Universal™ is UL 2998 validated for zero emissions.

Powered by Needlepoint Clusters™

Each Needlepoint Cluster™ generates 190 million ions. Fully extended with four Universal Blades™ the Series C Universal™ produces 16.8 billion ions.

Specifications

UNIVERSAL BLADE™ LENGTH: 8.14"
VOLTAGE: 24 VAC, 110 VAC, 220 VAC
POWER CONSUMPTION:
5W on 110 VAC or 208 VAC setting
5VA on 24 VAC setting
FREQUENCY: 50 Hz, 60 Hz
ELECTRODE: Carbon Resin
TEMPERATURE RANGE: -20° to 140 °F
PRESSURE DROP: <0.05" WV
HUMIDITY RANGE: 0-100%
SELF CLEANING OPERATIONS



1 X UNIVERSAL BLADE™ 4.2 BILLION IONS / CC 6,000 CFM
2 X UNIVERSAL BLADE™ 8.4 BILLION IONS / CC 10,000 CFM
3 X UNIVERSAL BLADE™ 12.6 BILLION IONS / CC 15,000 CFM
4 X UNIVERSAL BLADE™ 16.8 BILLION IONS / CC 20,000 CFM



Why Phenomenal Aire™?

Phenomenal Aire™ advanced IAQ technology is proven technology with thousands of commercial installations.



Smart Investment
Low cost operations

- Easy to Install
- Economical Investment
- No Planned Parts Replacement
- Consumes Minimal Energy for Operation

Series C™

Series C products are ideal for AHU and Rooftop unit installations. The Series C 6.0 is rated for systems up to 6,000 CFM. The Series C 10.0 is rated for systems up to 10,000 CFM. Both units include an alarm contact for interfacing to a Building Management Systems (BMS). Series C units also include an integral LED for local operational status.

Specifications

- ETL LISTED / UL-867
- AIR FLOW CAPACITY & AREA OF COIL FACE COVERAGE–
C 6.0 0 TO 6,000 CFM (4'X4' COIL FACE)
C10.0 6,000 TO 10,000 CFM (6'X6' COIL FACE)
- VOLTAGE – 16 TO 35 VAC; POWER WITH 24 VAC
- PRESSURE DROP – < 0.05" WC
- POWER CONSUMPTION – 12 VA
- NEEDLEPOINT PROBE LENGTH – 6" & 10"
- FREQUENCY – 50 HZ – 60 HZ
- ELECTRODE – CARBON RESIN
- TEMPERATURE RANGE – -20 F TO 140 F
- IONIZATION GENERATION – NEEDLEPOINT BI-POLAR
- ION GENERATION (OUTPUT)–
C 6.0 360 MILLION IONS/CC/SEC PER INCH OF STINGER™
C10.0 360 MILLION IONS/CC/SEC PER INCH OF STINGER™
- ION STATUS - GREEN LED
- HUMIDITY RANGE – 0-99%
- MOUNTING BOX – ABS UL 94 PLASTIC
- UV WEATHERIZATION COATING FOR EXTERIOR MOUNTING



Powered by Needlepoint Clusters™

C 6.0 3 BILLION IONS / CC 6,000 CFM
C 10.0 6 BILLION IONS / CC 10,000 CFM

Unit Application Quick Select

	Product	HVAC Applications	Airflow Capacity	Voltage	BAS Connection
	D 1.2-1	Fan Coils, Heat Pumps, PTACs, Ductless Mini- Splits, Air Handlers	Up to 1,200 CFM (3 tons)	115 / 120v	NO
	D 1.2-2	Fan Coils, Heat Pumps, PTACs, Ductless Mini- Splits, Air Handlers	Up to 1,200 CFM (3 tons)	208 / 277v	NO
	D 3.2	Fan Coils, Heat Pumps, PTACs, Ductless Mini- Splits, Air Handlers	Up to 3,200 CFM (8 tons)	24v	YES
	C 6.0	Air Handlers, Rooftop Units, Package Units	Up to 6,000 CFM (15 tons)	24v	YES
	C 10.0	Air Handlers, Rooftop Units, Package Units	Up to 10,000 CFM (25 tons)	24v	YES
	C Universal	Air Handlers, Rooftop Units, Package Units	C6 Up to 6,000 CFM (15 tons) C10 Up to 10,000 CFM (25 tons) C15 Up to 15,000 CFM (35 tons) C20 Up to 20,000 CFM (50 tons)	24/120/240V	YES

Series D™

Series D products are carbon fiber brush, needlepoint bipolar ionization units rated for 1,200 to 3,200 CFM or up to 8 tons nominal capacity. Series D units are great for mounting in fan coils, mini-splits, chilled beams, water source heat pumps, RTUs or any other forced air systems. Series D 3.2 includes an alarm contact for interfacing to a BMS. It also includes an integral LED for local operational status.



UL 2998 Validated

	D 3.2	D 1.2-1	D 1.2-2
Input Voltage	24VAC	115V	208/277V
Power Required	12Va	2VA	2VA
Frequency	50/60HZ	50/60HZ	50/60HZ
Capacity	3,200 CFM	1,200 CFM	1,200 CFM
Unit Dimensions	2.6"L x 1.9"H x 1.3"D	2.2"L x 1.6"H x 1.0"D	2.2"L x 1.6"H x 1.0"D
Weight	.25lbs	.25lbs	.25lbs
Electric Approvals	cMETus UL 60335-2-65	ETL Recognized	ETL Recognized
Environmental Approvals	UL 2998	UL 867	UL 867
Ion Output	>350M ions	>130M ions	>130M ions
BMS Alarm Contact Rating	Up to 120VAC & 5 Amps	Up to 120VAC & 5 Amps	Up to 120VAC & 5 Amps
Pressure Drop	<0.05" W.C. @ 5,000 FPM	<0.05" W.C. @ 5,000 FPM	<0.05" W.C. @ 5,000 FPM
Mounting Box	ABS 94VO	ABS 94VO	ABS 94VO
Electrode	Carbon Fiber	Carbon Fiber	Carbon Fiber
Temperature Range	-20F to 160F	-20F to 160F	-20F to 160F
Humidity Range	0-100%	0-100%	0-100%
Air Flow Sensing	Electronic- No External Air Pressure Switch Required	NA	NA
Ion Alarm Status	BAS Dry Contact & Local LED Status	NA	NA