

Series C

Series D 1.2-1

Series D 3.2

Series C-Flex

Series D 1.2-2

Series I



Phenomenal Aire

Cold Plasma Generator Technology

Commercial Products Guide

Series C

Series D 1.2-1

Series D 3.2

Series C-Flex

Series D 1.2-2

Series I

www.phenomenal aire.com

Phenomenal Aire

Cold Plasma Generator Technology

Phenomenal Aire™ cold plasma generator technology is proven air cleaning technology with thousands of commercial installations. Phenomenal Aire™ is endorsed by leading manufacturers of HVAC equipment with global brand recognition. Specifiy Phenomenal Aire™ on your next project.

Applications

AHU/RTU 0-3,000 cfm
AHU/RTU 0-6,000 cfm
AHU/RTU 0-10,000 cfm
Fan Coil
PTAC Unit
Mini-split System
Contact for BAS Communication
Adjustable Length
ETL Listed Technology
ASHRAE 62.1 Compliant
UL-867 Compliant

Series C-6.0	Series C-10.0	Series C-Flex	Series D 1.2-1	Series D 1.2-2	Series D 3.2	Series I
X	X				X	X
X	X					X
	X					X
		X	X	X	X	
		X	X	X	X	
		X	X	X	X	
X	X	X			X	
		X				X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X

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Series C Cold Plasma Generator



Series 6.0 & Series 10.0



Application: Air Handling Units

- ☐ Air Flow Capacity:
 - Series C 6.0, 0 to 6,000 CFM
 - Series C10.0, 6,000 to 10,000 CFM
- ☐ Ion Output
 - Series C 6.0, 140 million ions/cm³
 - Series C10.0, 200 million ions/cm³
- ☐ UV resistant construction
- ☐ Voltage: 16 - 35 VAC (24 VAC power supply req'd.)
- ☐ Pressure Drop-< 0.05" WC
- ☐ Power Consumption - 12 VA
- ☐ Ion Emitter Leg Length - 6" & 10"
- ☐ Frequency -50 Hz -60 Hz
- ☐ Electrode - Carbon Resin
- ☐ Temperature Range - -20 F to 140 F
- ☐ Ionization Generation: Needlepoint, Bi-Polar



Application: Ductless AC/ PTAC

The Series C -Flex from Top Product Innovations is a highly versatile ion device that is designed to be installed on the cooling coil in ductless AC systems or PTACS. The device requires no replacement parts and it can be integrated into wall or ceiling cassette indoor coils of ductless mini-splits, PTAC units or other systems where there may not be enough room to install other indoor air quality products between the filter and coil. The 18" inch flexible ion bar can be used on coils up to 30 inches wide. The 36" inch flexible ion bar can be used for coils up to 48" inches wide.

Specifications:	120VAC to 240VAC
Input Voltage:	5 Watts
Power: Frequency:	50/60 HZ
Output Voltage:	2KV
Output Current	1mA
Dimensions (Power Supply):	" 0"H x 2 0"W x 3"L
Dimensions 36":	1.5"W x 36"L x 0.05"H
Dimensions 18":	1.5"W x 18"L x 0.05"H
Power Supply Weight:	0.5 lbs
Model Number String:	C-Flex 18 or C-Flex 36
Electrical Listings:	UL, cUL
Alarm Contacts:	"Dry Contact" / LED Status

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Series D Cold Plasma Generator



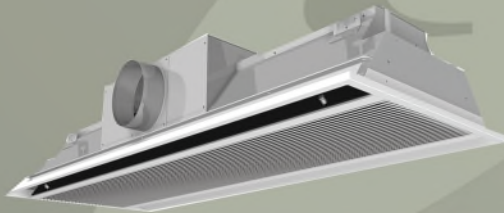
Series D 1.2-1



Series D 1.2-2



Series D 3.2



Application: Fan Coils, Mini-splits, Heat Pumps, RTUs

Series-D units are carbon fiber brush, needlepoint, bi-polar ionization generators 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.

Input Voltage
Power Required
Frequency
Capacity
Unit Dimensions
Weight
Electric Approvals

BMS Alarm Contact

Series D CPG selections

D 1.2-1	D 1.2-2	D 3.2
115 VAC	208-277 VAC	24 VAC
2 VA	2 VA	12 VA
50/60HZ	50/60HZ	50/60HZ
1,200 CFM	1,200 CFM	3,200 CFM
2.2"L X 1.6"H X 1.0"D	2.2"L X 1.6"H X 1.0"D	2.6"LX1.9"HX1.3"D
0.25lbs	0.25lbs	1lbs
UL Listed	UL Listed	UL Listed
NA	NA	"Dry Contact" 3A/11V Maximum

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Series I Cold Plasma Generator Bar



Series I+ CPG Bar



Series I+ Power Supply



Application: AHUs / RTUs

The Series I CPG Bar is made from aircraft grade extruded aluminum, 316 stainless needles and liquid-tite flex cables. The Series I CPG Bar is custom cut to length based on the application. Generally, there is one bar per cooling coil and the TPI Series I CPG Bar mounts to the air entering side of the cooling coil. The bar is available in sizes from 8" to 143".

The Series I + power supply is a current limited linear-transformer based AC voltage source with resistively-damped output coupling which provides ultra enhanced load regulation. This enhanced stability results in improved reliability and longevity of the power supply.

Mounts in Only 1.0" in Direction of Airflow, Aluminum Exterior, 316 Stainless Steel Ion Needles and Liquid-Tight Flex Cables

- ☐ Dual Input Voltage Selector Switch
- ☐ Illuminated On/Off Switch,
- ☐ Spare Fuse
- ☐ Quad HV Output Ports
- ☐ Integral Ground Screw
- ☐ Field-Serviceable Components
- ☐ Input Voltage: 120VAC / 230VAC
- ☐ Amps: 0.2A/0.1A
- ☐ Power: 24 Watts
- ☐ Frequency: 50/60 HZ
- ☐ Output Voltage: 7.5kV RMS
- ☐ Ion Output: 40M ions/cc per inch

Phenomenal Aire

iOngauge Meters -Measuring Healthy Air

ion production



Indoor Air Quality (IAQ)

When it comes to “measuring and monitoring healthy air and the performance of Phenomenal Aire CPG technology, 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 that takes air samples and provides an actual ion output. The meter may be set to read positive, negative or the differential between positive and negative ions.

iOngauge Series i is a duct mounted ion detector that provides on/off indication to third party Building Management Systems (BMS). The sensor includes a local LED to show that power is applied and a second LED to show that ions are being sensed at a level above the field adjustable setpoint.

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

Similar to other industry sensors, TPI's sensors can indicate when a space is occupied. However, 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.

Standard Features Include:

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