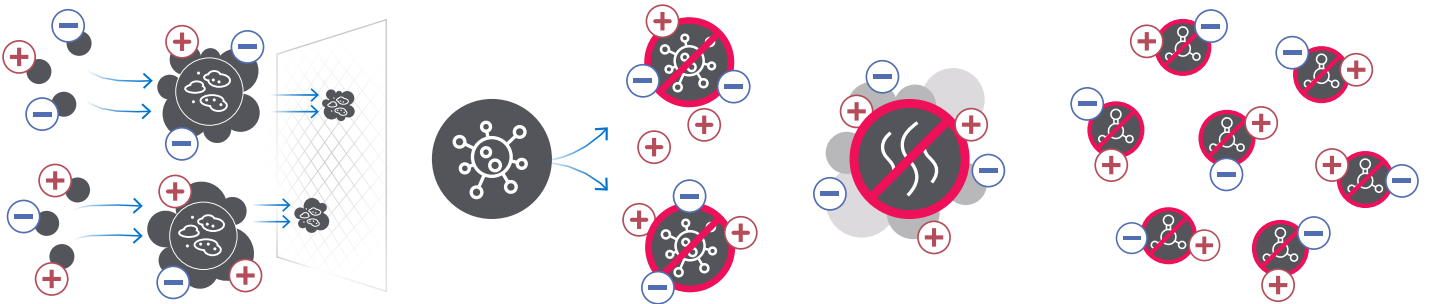


# Commercial Product Selection Guide

## HOW BIPOLAR IONISATION IMPROVES INDOOR AIR QUALITY

Plasma Air technology produces a natural bio-climate rich in positive and negative oxygen ions. The negative ions contain an extra electron while the positive ions are missing an electron resulting in an unstable condition. In an effort to restabilise, these bipolar ions seek out atoms and molecules in the air to trade electrons with, effectively neutralising particulate matter, bacteria and virus cells, odorous gases and aerosols, and VOCs.



### PARTICULATE

Airborne particles, such as smoke, dust, pollen and spores are charged by the ions through ionic bonding. These charged particles stick together increasing their size allowing them to be easily removed by low grade filters.

### BACTERIA & VIRUSES

As they divide to reproduce, bacteria and virus cells bond with oxygen ions and are destroyed.

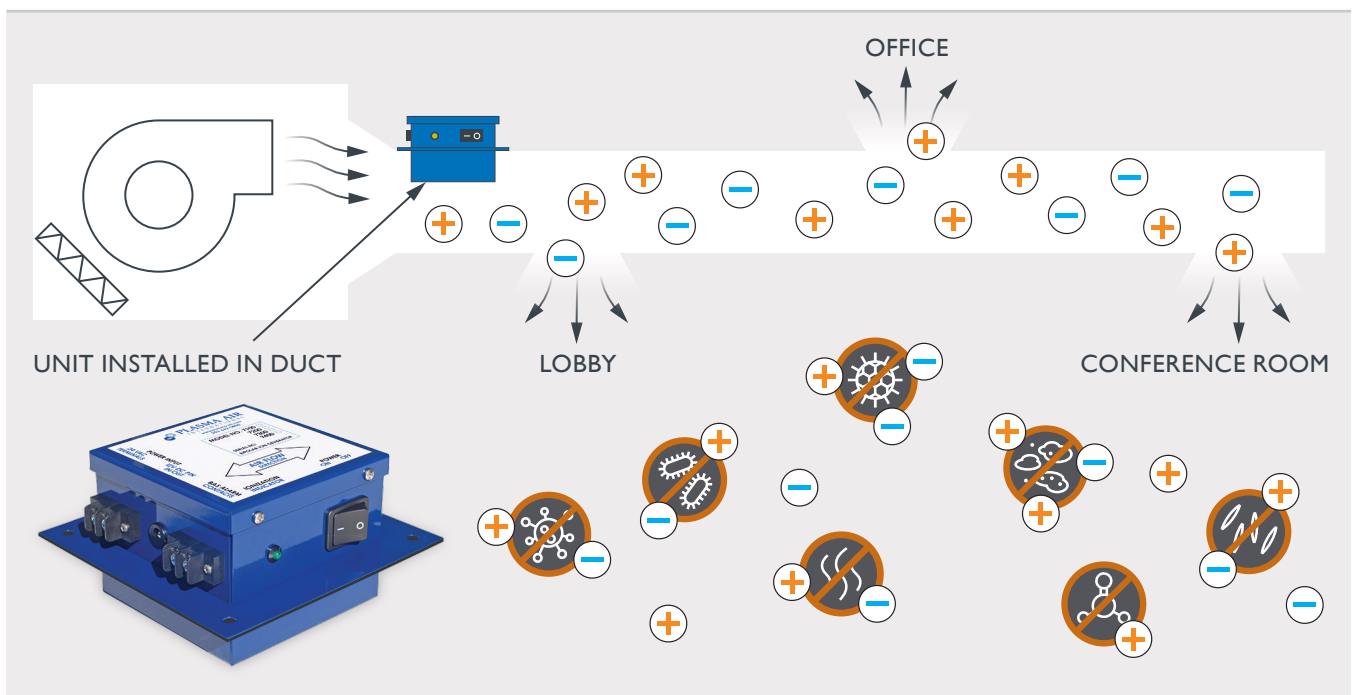
### ODOROUS GASES

Odorous gases and aerosols oxidize on contact with oxygen ions and are neutralised.

### VOLATILE ORGANIC COMPOUNDS

Oxygen ions cause a chemical reaction with VOCs breaking down their molecular structure.

## HOW PLASMA AIR TECHNOLOGY WORKS



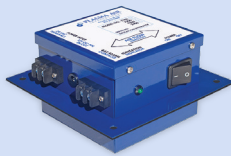
## PLASMA AIR PRODUCTS

Plasma Air products can be used in a variety of IAQ applications with varying pollutant levels. This guide will help you select the proper Plasma Air product and concentration of ionisation for your application.

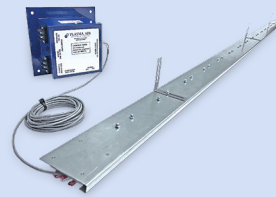
### Needlepoint and Brush Style Ionisers



**600 Brush-style Needlepoint Ioniser**



**7000 Series Needlepoint Ioniser**



**Plasma Bar (PB) Needlepoint Ioniser**

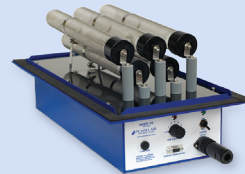
### Tube Style Ionizers



**100 Series One Tube Style Ioniser**



**200 Series Two Tube Style Ioniser**



**50 Series Five Tube Style Ioniser**

## POLLUTANT LOAD FACTOR

- A** Office, Classroom, Library, Church, Day Care Center
- B** Gymnasium, Auditorium, Arena, Athletic Facility, Cafeteria, Hospital
- C** Cannabis Grow Facility, Senior Living, Airport, Non-Smoking Casino, Train Station
- D** Light Manufacturing, Animal Facility, Smoking Casino, Nail/Beauty Salon, Food Processing Facility, Hotel
- E** Industrial Facility, Heavy Manufacturing, Garbage Room
- F** Odors and Chemicals Typical of a Waste Water Treatment Facility

The table below provides recommended products based on airflow and typical pollutant loads:

Pollutant Load Factor	Airflow (L/S) & Recommended Product(s)						
	500	1,000	1,500	2,500	4,000	5,000	10,000
<b>A</b>	600 or 7100	600 or 7200	7300	7400	(2)7300 or PB-42	(2)7400 or PB-48	(4)7400 or PB-96
<b>B</b>	600, 7200 or 100D	7300 or 100E	7400 or 200D	(2)7300 or 200E	(2)7400, PB-60 or 50E	(3)7400, PB-72 or 50F	(2)PB-72 or (2)50F
<b>C</b>	100D	100E	200E	50E	50F	(2)50E	(3)50F
<b>D</b>	100E	200E	50E	50F	(2)50E	(2)50F	(4)50F
<b>E</b>	200D	50E	50F	(2)50E	(2)50F	(3)50F	(6)50F
<b>F</b>	* Consult Plasma Air Engineering Department						