

PLASMA AIR SCRUBBER SUBMITTAL

- All Natural Process
- No Chemicals Used
- Clean Air Work Environment
- Green Technology
- Lower Capital Costs
- Reduces Energy Use
- Reduces O&M Costs



Plasma Air Supply Scrubbers are designed to reduce emissions of H₂S and other problematic gases in wastewater treatment facilities such as headworks, solids buildings as well as pumping stations, covered clarifiers, and other related buildings.

The scrubber design incorporates Plasma Air's bipolar ionization units which act to reduce these gases by cell oxidation through a plasma discharge. The process is safe and imitates nature's approach to

air purification.

The bipolar ions are strategically introduced into the facility which insures proper mixing and takes into account the special nature of the odorous gases.

In cases where it is necessary to reduce the odors being emitted from the facility, an exhaust scrubber would be utilized. This scrubber extracts odorous air from the facility, provides a second dose of ionization further reducing the odors.

PLASMA AIR'S BIPOLAR IONIZATION TECHNOLOGY



Plasma Air Model 50F Bipolar Ionizer

Plasma Air's core technology utilizes a bipolar ionization cold plasma discharge. The ionization units produce millions of positive and negative ions. When these ions are properly introduced into a facility, they interact with the pollutants and break down their molecular structures. Depending on the size of the facility and the severity of the odorous gases, several bipolar ionization units will be required.

SUPPLY SCRUBBER SPECIFICATIONS

Model No.	PA1000-02	PA2000-04	PA4000-08	PA8000-16	PA16000-32
Airflow (CFM)	1,000 CFM	2,000 CFM	4,000 CFM	8,000 CFM	16,000 CFM
Dimensions (W X H X L)	36" x 36" x 108"	42" x 36" x 120"	52" x 42" x 120"	66" x 60" x 140"	96" x 68" x 174"
Housing Material	18 Gauge G90	18 Gauge G90	18 Gauge G90	16 Gauge G90	16 Gauge G90
Total Scrubber Weight	1,100 lbs.	1,350 lbs.	1,800 lbs.	2,640 lbs.	3,220 lbs.
Voltage	230V/460V	230V/460V	230V/460V	230V/460V	230V/460V
Current Draw	9/4.5 Amps	10/5 Amps	15/7.5 Amps	21/10.5 Amps	39/19.5 Amps
VFD	Included	Included	Included	Included	Included
Status Control Panel	Included	Included	Included	Included	Included
Delivery	8 - 10 weeks	8 - 10 weeks	8 - 10 weeks	10 - 12 weeks	10 - 12 weeks
Ion Generators - Qty	1 - 2	2 - 4	4 - 8	8 - 16	16 - 32
Current Draw (Ea)	0.6A	0.6A	0.6A	0.6A	0.6A
Certifications	UL 867/1995	UL 867/1995	UL 867/1995	UL 867/1995	UL 867/1995
Voltage	120V/1/60	120V/1/60	120V/1/60	120V/1/60	120V/1/60

TYPICAL ISOMETRIC SCRUBBER DRAWING

