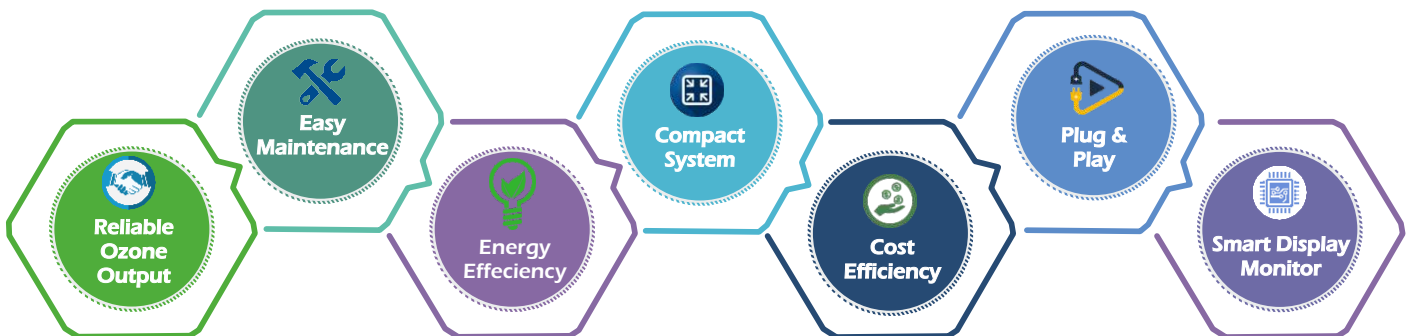




Ozone Technology For Air & Water Treatment



Why Ozone Engineers



www.ozoneengineers.com

**Ozone Skid System
Fully Automatic**



Ozone Generator



Features of Ozone Generator

- ❖ IGBT Based High Frequency PWM Inverter gives High Concentration Ozone & High Operating Life.
- ❖ High Barrier Quartz Tube is Specified for use.
- ❖ The Water-Cooled SS-316 Electrode Provides a Stable and Consistent Output
- ❖ Variable Ozone Control
- ❖ ELCB Protection
- ❖ Over & Under Voltage Cutoff
- ❖ Over Current Protection
- ❖ Over Temperature Protection
- ❖ Over Pressure Protection for Ozone Electrode
- ❖ Air Cooled H.V Ferrite Transformer
- ❖ Cooling Water Flow Failure Protection
- ❖ Oxygen Low Failure Protection
- ❖ System Start / Stop Frequently
- ❖ Ozone Working Status LED Indicator
- ❖ IP 55 Protected Enclosure
- ❖ **Smart LCD Display** (Display : Variable Ozone % Display, Over /Under Voltage, Cooling Water Flow Error, Oxygen Low Error)

MOC : Mild Steel with 7 Step Tank Process Powder Coated for better life for Moisture Environment.

Ozone Generator - 500 g/h to 10 kg/h



Features of Ozone Generator

- ❖ High Concentration of Oxygen Source 120-150 G/NM³
- ❖ Adjustable Ozone Output, 10-100% Linear Adjustment Can Be Done Through PLC With HMI.
- ❖ IGBT Inverter Power Supply, High Power Factor, Will Not Produce High Harmonic Interference.
- ❖ Inverter Power Supply Can Be Integrate Easily With PLC.
- ❖ High Voltage Transformer Works With Medium Frequency, Air Cooled Based With High Efficiency Transforming Ratio.
- ❖ Discharge Chamber Has Honeycomb Structure, Quartz Glass Discharge Tube, Pressure, Heat Resistance, Oxidation Resistance.
- ❖ Ozone Output Can Be Increase and Decrease Automatically Based on the Feedback Input From Dissolved Ozone Monitor.
- ❖ Necessary Protection Given for Inverter Power Supply, Instruments And Whole Ozone System
- ❖ Inbuilt Pressure Regulator, Pressure Transmitter, Pressure Relief Valve for Feed Gas Input Line to Protect High Pressure Entering into the Electrode Chamber.
- ❖ Inbuilt Solenoid Valve For Feed Gas Inlet And Ozone Output Line. Can Be Control Input and Output Through PLC.
- ❖ Inbuilt Vortex Feed Gas Flow Meter Have Been Integrated With PLC
- ❖ Cooling Water Fail Protection for Ozone Electrode Chamber.
- ❖ Low Power Consumption, Oxygen Source 6-7 KW/KG.
- ❖ Complete Automatic Configuration, Optional Communication Mode
- ❖ HMI With Large Display (7" Touch) Helps to Monitor the Real Time Data, Faults Alarm.

MOC : Mild Steel with 7 Step Tank Process Powder Coated for Power Supply Cabinet & SS-316 for Ozone Electrode Chamber.

PSA Oxygen Plant



Oxygen Plant Flow Diagram



1. Air Compressor
2. Pre Filter

3. Air Receiver Tank
4. Refrigeration Air Dryer

5. Fine Filter
6. Activated Carbon Filter

7. PSA Oxygen Tower
8. Oxygen Receiver Tank

Features of Oxygen Plant

- ❖ Pressure Swing Adsorption Technology.
- ❖ Mild Steel Vessel with anti Corrosion Inner Coating for Longer Sieve Life.
- ❖ Used for World Class Zeolite Molecular Sieve.
- ❖ Built in Pressure Regulator and Flow Regulator.
- ❖ Activate Alumina Balls to Remove the Moisture.
- ❖ PLC with HMI Based System to Controlled for all Process.
- ❖ Oxygen Purity, Flow and Pressure in Front Panel HMI Display.
- ❖ Inbuilt Digital Flow Meter & Transmitter.
- ❖ Periodic Maintenance Alerts will be Tracked on the HMI
- ❖ Molecular Sieve Life will be above 3 years.

MOC

PSA Tower & Oxygen Storage Tank - MS with Inner anti Corrosion Coating, Outer side 7 Step Tank Process Powder Coated for better life for Moisture Environment.

Instrumentation with Interlocking System



Ambient Ozone Monitor : To Ensure Safety, The Ozone System Is Designed to Shut Off Automatically If The Atmospheric Ozone Level Is Detected To Be Abnormal.

Dissolved Ozone Monitor : To Measure the Dissolved Ozone Level in the Ozone Treated Water Line/Tank.

Ozone Output Can Be Increase and Decrease Automatically Based On The Feedback Input From Dissolved Ozone Monitor.

Pressure / Flow Transmitter : Low Pressure and Oxygen Flow can lead to shut down the PSA and Ozone System.

Cooling Water Flow Switch : To Prevent Overheating, The Ozone System Is Designed To Shut Off. If The Cooling Water Flow Rate Falls Below a Predetermined Threshold

Temperature Controller : High Cooling Water Temperature Will Trigger an Automatic Shutdown of The Ozone System.

PLC With HMI Controller



- ❖ PLC Based Control with Touch Screen HMI.
- ❖ Easy to Use and Digital Display at all Parameter.
- ❖ To Monitor the Real Time Data and Faults Alarm through HMI Display.
- ❖ User Friendly Interface
- ❖ Over View Process Flow Diagram with Real Time Working Status in the HMI.

Our Global Presence in 35+ Countries



Thankyou

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