

INDIZONE OZONE GENERATOR



•TECHNICAL SPECIFICATIONS

OZONE OUTPUT 6, 12, /HR AIR FEED

OZONE CELLS: SS/GLASS DIELECTRIC

SLIENT CORONA DISCHARGE

OZONE CONCENTRATION : 1.2% W/W

MAX. AIR FEED RATE : 50 LPM

AIR FEED RATE : 5, 10,

INPUT AIR PRESSURE : 0.9 BAR

AIR DEW POINT: MINUS 40 DEGREES

**MODEL COMPATIBLE WITH OXYGEN
FOR HIGHER OZONE OUT PUT & CONC.**

AIR PREPARATION REQUIREMENT:

1. COMPRESSED AIR : 5-8 KG PRESSURE

2. AIR DRIER REQUIREMENT: 10-15 CFM

The ozone generator is a small air cooled wall-mountable unit incorporating a high voltage/high frequency power supply unit and a SS/GLASS dielectric ozone production module, enclosed in a MS powder coated cabinet

The equipment manufactured by OTSIL comply with strict quality assurance procedures and each generator is subjected to the following test procedure.

- 1. Di-electric card function test
- 2. Di-electric card load test for 24 hours
- 3. Di-electric cells pressure test.
- 4. Complete unit test for 24 hours.

OTSIL

•1-A , 12TH CROSS STREET

•SHASTRI NAGAR, CHENNAI

•PICTURE OF MODEL CD 8C AF

INDIZONE BENEFITS

•CONSTRUCTION OF THE CELL:

Corona Dielectric Cells are made of Special SS 316 Material & coated with special material . This is to prevent arcs (instead of Corona) that will slowly destroy the SS and convert it into a catalyst to destroy ozone. Risks of micro cracks of the cell are avoided. The Breakdown Voltage is at least 25% more than the Normal Voltage used in ozone production . Therefore the performance of the ozone Generator in terms of capacity will be not be reduced and the production graph will remain the same as months pass by.

•DISCHARGE GAP & FREQUENCY USED. - BARRIER DISCHARGE TECHNOLOGY

The units have micro gaps and termed as Discharge Barrier . For the larger models we use medium frequency (800 Hz) that no body uses in India . No Ozone generators in India have these feature . This use of medium Frequency will remarkably improve the power factor of the Ozone Generator with the result that the heat produced is limited. Loss of ozone due to Heat is limited. The Barrier Discharge Technology Limits the current flow in time ,Limits the Temperature rise of the gas.These features represents the optimum conditions for ozone Generation.

•LOWER THERMAL DEGRADATION

The use of more efficient air gaps between the electrodes and the dielectric. This produces a greater cooling effect with the airflow much more effectively. This reduces the heat that is produced by the Corona. Indizone therefore ensures minimal Ozone loss by thermal degradation and therefore higher output per unit of power consumed

•LOWER INTERNAL LOSSES OF OZONE-HIGHER OUTOUT

The smaller sized generator tubes in the Indizone generators assists in obtaining more effective cooling, giving lower internal losses of ozone and thus a higher output

• COOLING:

Due to the low power factor & barrier Discharge principle INDIZONE use Air cooling in small generators as less heat have to be removed (However, for larger units more than 40 grams per hour water cooling is used

•ELECTRONICS

For our smaller units , we use individual electronics and cell modules instead of a Single Transformer for all the Ozone production cells. OTSILs research has found that this is more convenient in terms of operation, maintenance as there can not be a Total failure at any point of time The Maintenance is so easy and makes it client friendly

LOWER ELECTRICAL STRESS - LONGER TUBE LIFE

The superior design parameters of Indizone Systems enable it to operate efficiently even at lower dew points because of lower electrical stress. Most generator tubes fail frequently if prepared air feed is not used. As the tubes of typical generators fail, they are normally individually fused.This extends maintenance period since the fuse for every tube has to be disconnected and then reconnected during cleaning process. Indizone tubes rarely fail and hence they do not need to be fused.

•SUPERIOR APPLICATION TECHNOLOGY

OTSIL adopts International standards of Ozone application, hence has highest reliability. **APPLICATION SUCCESS IS GUARANTEED**

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