



## TZ-100AW

### Dimensions

1050 (L) 500mm (B) X 1425mm (H)  
Weight 200 kgs (approx)

### Ozone Generation

Ozone generation	: 100 GRMS PER HOUR
Ozone concentration	: 100GM / CUM
Make & Type of Electrode	: Technozone make / Alumina coated CERAMIC tube electrode with high concentration of ozone.
Cooling tube arrangement / material of tube	: Water cooled SS 316 inner & 304 outer cooling water jacket tube. Flange ended with Teflon (zero leak proof). Can withstand pressure up to 4 bar.
No. of electrodes	: Two
Ozone Generation by Corona discharge technology	: Advanced CERAMIC coated & glazed electrode covered with concentric annular SS cooling tube is alternated with high frequency corona discharge. This corona discharge disassociates the oxygen atoms to regroup to form ozone.
Power electronics	: Full bridge IGBT based microprocessor controlled power generation unit for the CERAMIC electrodes.
Controls	: Program Logic Control and Microprocessor, Based Control With Touch Screen Display.
Feed Back System	: Auto Control Off for a) Gas Input b) Cooling Water Input c) High Current Failure, d) High Temperature, e) Electrode Failure.

### Feed Gas Preparation

Feed Gas	:	Inbuilt Oxygen concentrator, using Pressure Swing Adsorption (PSA)
Outlet Pressure	:	14 psi (1 bar)
Compressor	:	Air flow oil less
Oxygen Purity	:	93% ± 3%
Oxygen flow	:	1 to 16 LPM
Sound Level	:	< 45 dB (A)
Power supply	:	AC 230V+ 10%, 50 Hz + 10%
Electrical classification	:	II class B type
Temperature range	:	10° C – 40° C
Relative Humidity	:	20% to 70%

### Chiller specifications

Liquid Chiller System	:	1000Kcal/Hr capacity to maintain a temperature of 19°C to 22°C for the electrode.
Compressor	:	Emersion Copeland hermetically sealed with automatic Over load protection.
Condenser	:	Air cooled with Nippon copper fin and tube type.
Evaporator	:	Fin and tube type heat exchanger SS 304 grade tank.
Water pump	:	CNP inline Centrifugal Monobloc pump

### Safety Features

Automation	:	Fully automated control unit. High voltage (>245V AC) & low Voltage (< 200 V AC) indication & cut off Electrode failure indication & cut off.
Construction	:	Rugged steel body for easy maintenance and solid strength.

### Electrical Specification

Input Voltage	:	230 V AC / 50 HZ (single phase)
Frequency	:	50 Hz
Power consumption	:	3 Kilo Watts including Chiller, oxygen concentrator.

**Technozone Environmental Solutions Pvt. Ltd.**

**No.1, SIDCO Industrial Estate,  
Thirumudivakkam, Chennai  
Tamilnadu, India - 600 044  
Ph: +91 44 42852196. Mobile: +91 9551299512**

**info@technozone.in  
www.technozone.in**