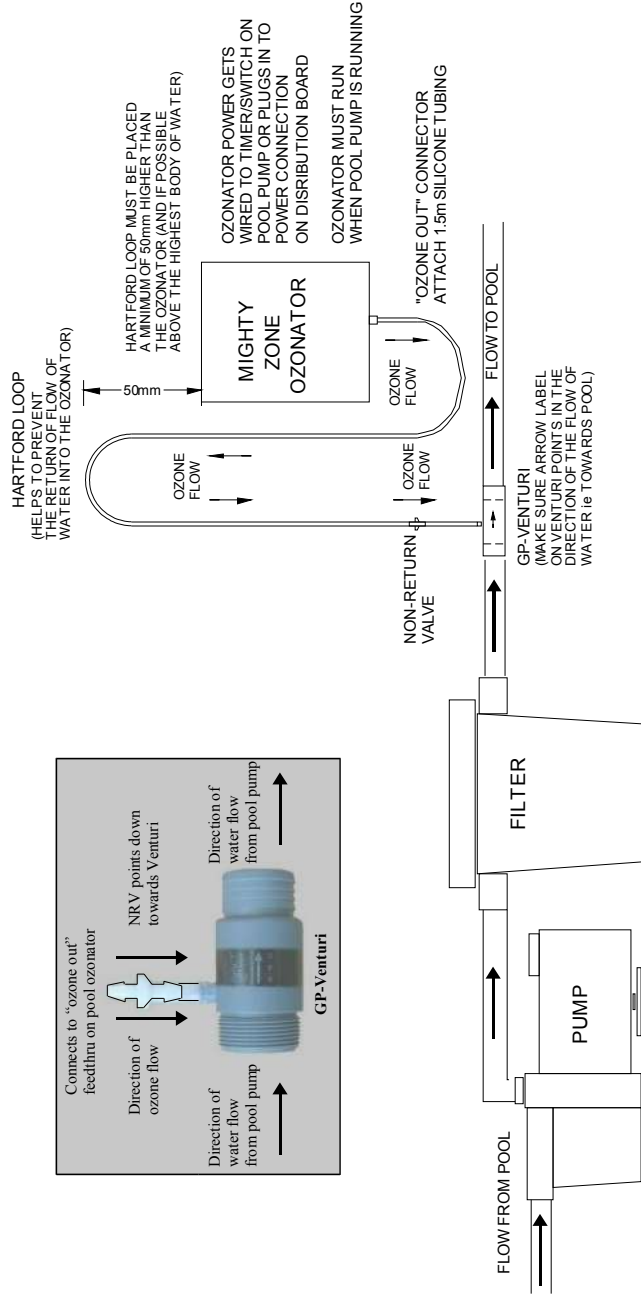


POOL INSTALLATION DIAGRAM



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POOL OZONE GENERATOR

MZPF-8000

OPERATION MANUAL & INSTALLATION GUIDE

POOL OZONE GENERATOR MODEL NO: MZPF-8000



SPECIFICATIONS

Model	: Mighty Zone MZPF-8000
Input	: 220 V.A.C. @ 50Hz
Input Power	: 110 Watts
High Frequency	: 18 kHz to 30kHz
Ozone Output	: 8000mg/hr
Ozone Cell	: Quartz glass & Stainless Steel
Ozone Distribution	: Venturi
Cooling	: Air Cooled with Fan
Fuse	: 2A 5x20mm Fast Blow
Cell Protection	: Internal Air Filter & Non-return valve
Electronic Protection	: Over-temperature protection
Enclosure	: Polycarbonate
Dimensions	: 340mm H x 235mm W x 140mm D
Weight	: Approx 4.5 kg
Ozone Outlet	: Fits Silicone Tubing 5-7mm ID
Max Ambient Temp.	: 30 °C
Mounting	: Polycarbonate Mounting Feet
Guarantee / Warranty	: 12 months (terms & conditions apply)

Pool Sizing

Many Factors influence the size of required Ozone Generator:-

- Water temperature
- Bather load
- Pump run-time
- Location
- Pool Material
- Weather
- Dirt, mildew and contaminants.

Use the following guideline to assist you:

- MZPF-8000 : < 100 000 litres

Pool Kit:-

- 1x MZPF-8000 Ozone Generator
- 1x Mighty "V" Venturi
- 1x Non-return valve
- 1½ metres of Silicone Tubing

Specifications subject to change without notice

Installation

- Pump should recycle pool volume every 1 to 3 hrs. Maximum off time 3hrs / cycle
- The Ozone generator must be installed in a covered ventilated space near the multi-port valve.
- NOTE:** The fan vents of the Ozone Generator must not be obstructed.
- Connect the Ozone Generator supply to the timer output feeding supply (220V 50Hz) to the Pump.
Brown ~ Live, Blue ~ Neutral, Green and Yellow ~ Earth (**NB:** Earth must be connected)
These Connections should be done by a qualified person!
- The Venturi screws into the return output of the Multi-port valve. Use plumbers tape to aid with sealing. (Use label on venturi to assist you in fitting the venturi in the correct direction)
- The Venturi output can be connected directly to the flexible return hose by inserting over the barbs and using a tube clamp (40mm Tube). If the return line is 50mm rigid tube use a 50mm junction.
- Glue and slide the one side of the junction over the venturi output side first, the return tube can then be glued to the other side of the junction (use PVC glue)
- Test the suction by switching on the pump and placing a finger tip over the the ozone inlet port. Once the suction is working switch off the Pump.
- Using a 60mm piece of the Silicone tube supplied, install the Non-Return Valve with the tapered face joining to the Venturi ozone inlet. (The Non-return valve must be installed in the direction which allows air flow in to the injection point but blocks any return flow).
- Switch on the pump again and test the suction in the same way but this time placing your finger tip over the inlet to the Non-return valve. If the suction is working switch off the pump.
- The Ozone output from the Ozone generator must be connected to the other side of the Non- return valve with the remaining silicone tube.
- This section of tube must include a Hartford Loop – see diagram on following page.
- The red neon on the front of the ozone generator will glow if the ozone cell is generating ozone.

Pool Water Preparation

- 1) Backwash Pool
- 2) Adjust total alkalinity with Hydrochloric acid or Sodium Bicarbonate 80-100ppm
- 3) Adjust pH 7.2 to 7.8 (HCL acid to lower and Sodium Bicarbonate to increase)
- 4) Shock treat with Hydrogen Peroxide 35% (100mL / 1000 Litres pool water)
- 5) Ozone is used as primary Sanitizer and Sodium Bromide as secondary / residual Sanitizer
Sodium Bromide should test between 1-2 ppm (Dosage: 16.6mg per Litre of water every 6 months)

Pool Water Maintenance:

- Shock treat with Hydrogen peroxide
- Maintain total alkalinity with Hydrochloric acid or Sodium Bicarbonate 80-100ppm
- Maintain pH 7.2 to 7.8 (HCL acid to lower and Sodium Bicarbonate to increase)
- Shock treat with Hydrogen Peroxide 35% (100mL / 1000 Litres pool water)
- Keep pool clear of leaves and debris
- Check and clean basket daily. Backwash regularly.
- Use Algacide if required – consult supplier for ozone compatible type

Ozone Generator Maintenance:

- Please check every 3 to 6 months.
- Check Non-return valve for signs of water returning into the tube to the ozone generator
- replace if necessary.
 - Check the silicone tube for deterioration - replace if necessary
 - Check internal air filter for blockage

Fault Diagnosis

- Red Neon does not glow when pump is on – check Ozone Generator switch is on - Check Fuse
- Large bubbles come from pool return jet and strong smell of ozone:-
Restrict the air flow by tying a cable tie around the silicon tube just above the NRV. Tighten until large bubbles disappear. A spray of small bubbles must be present. Use the fingertip test on the air inlet port to the ozone generator to check that suction is still present .