

INSTRUCTION MANUAL FOR OZONE GENERATOR

OZONTECHNIK



Model Centurion 5



Congratulations you have purchased one “state of the art” ozone unit. Each unit is tested in our factory for 24 hour to ensure you one reliable plant. When operated correctly this unit will run many years without maintenance.

Please kindly read carefully this instructions.

Manufacturer:

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Testing Data:

Date:	08.04.04
Pressure:	0.2
Gas Flow:	500 NI/h
Ozone Production:	5.12 g/h

Technical Information:

Build according to German Industrial Norms (DIN) 19627, the ozone unit operates under silent discharge principle.

POWER SUPPLY:	220 VAC (+6....-10%)
Frequency:	50...60 Hz
Protection:	IP 44
Consumption:	180 W
Weight:	55 kg

Guidelines for use of Ozone

Ozone is a toxic and explosive gas at high concentrations. Special care should be taking on handling the unit.

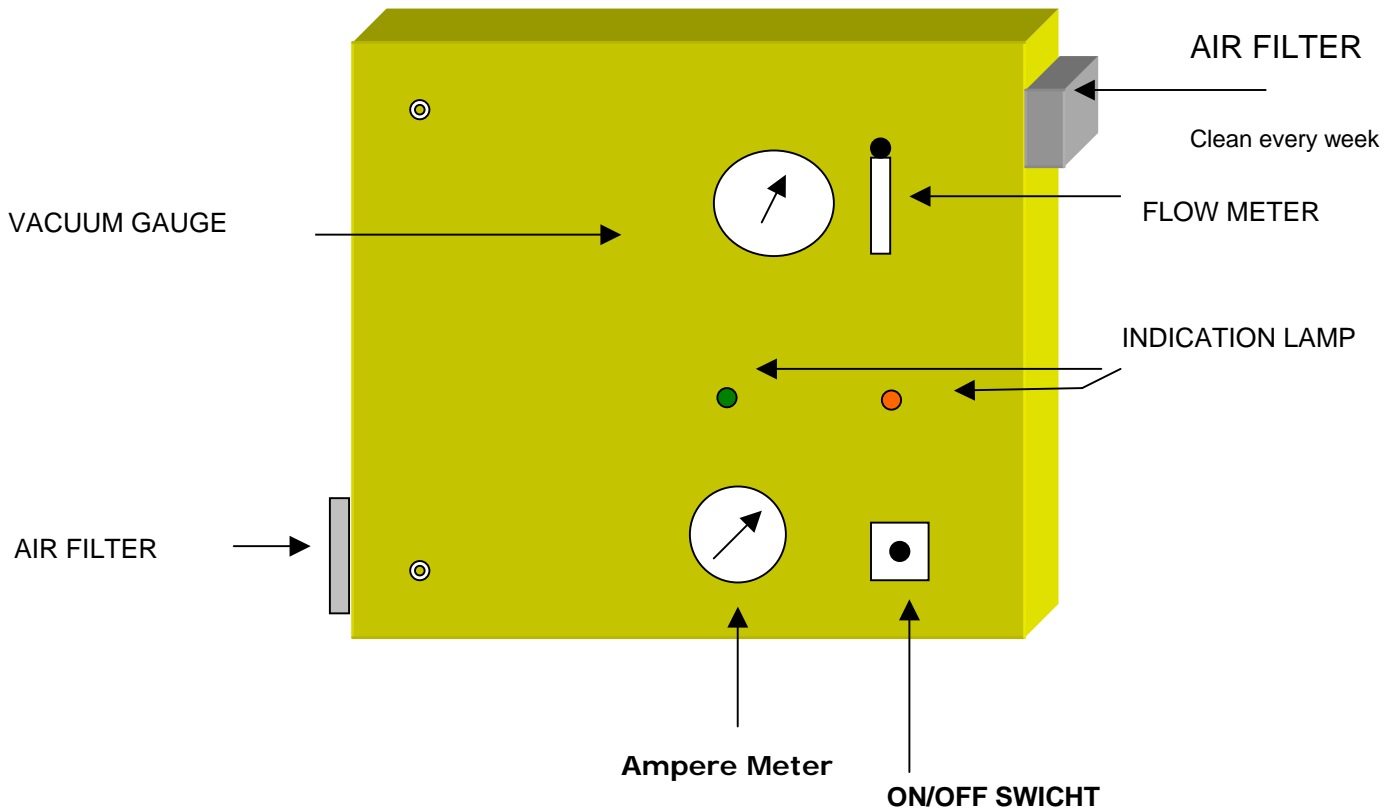
Norms and Regulations

- Guidelines for use of Ozone in Water Treatment (BG)
- Ozone plants for Water Treatment (DIN 19627)
- EH 38 (1996) Ozone – Health hazards and precautionary measurements.
- ZH 1/474 – Regulations for use of Ozone in water

Installation Site

The lifetime of the unit regards to ambient temperature and humidity. We recommend Temperature bellow 30 and humidity below 60%. A clean and ventilated area must be provided (MAK-value for Ozone is 0.2 ppm).

Introduction for the system components Front panel



FUNCTIONS:

Flow Meter :

It will indicate and adjust the production of the unit. The reading is from 0 to 100%. Turn the black knob clockwise to increase the production and counterclockwise to reduce.

Vacuum gauge:

The vacuum gauge indicates the operational pressure of the system. It is correct to operate under a pressure $-0,2...+0,2$.

As one option a vacuum switch can be supplied.

Switch ON/OFF:

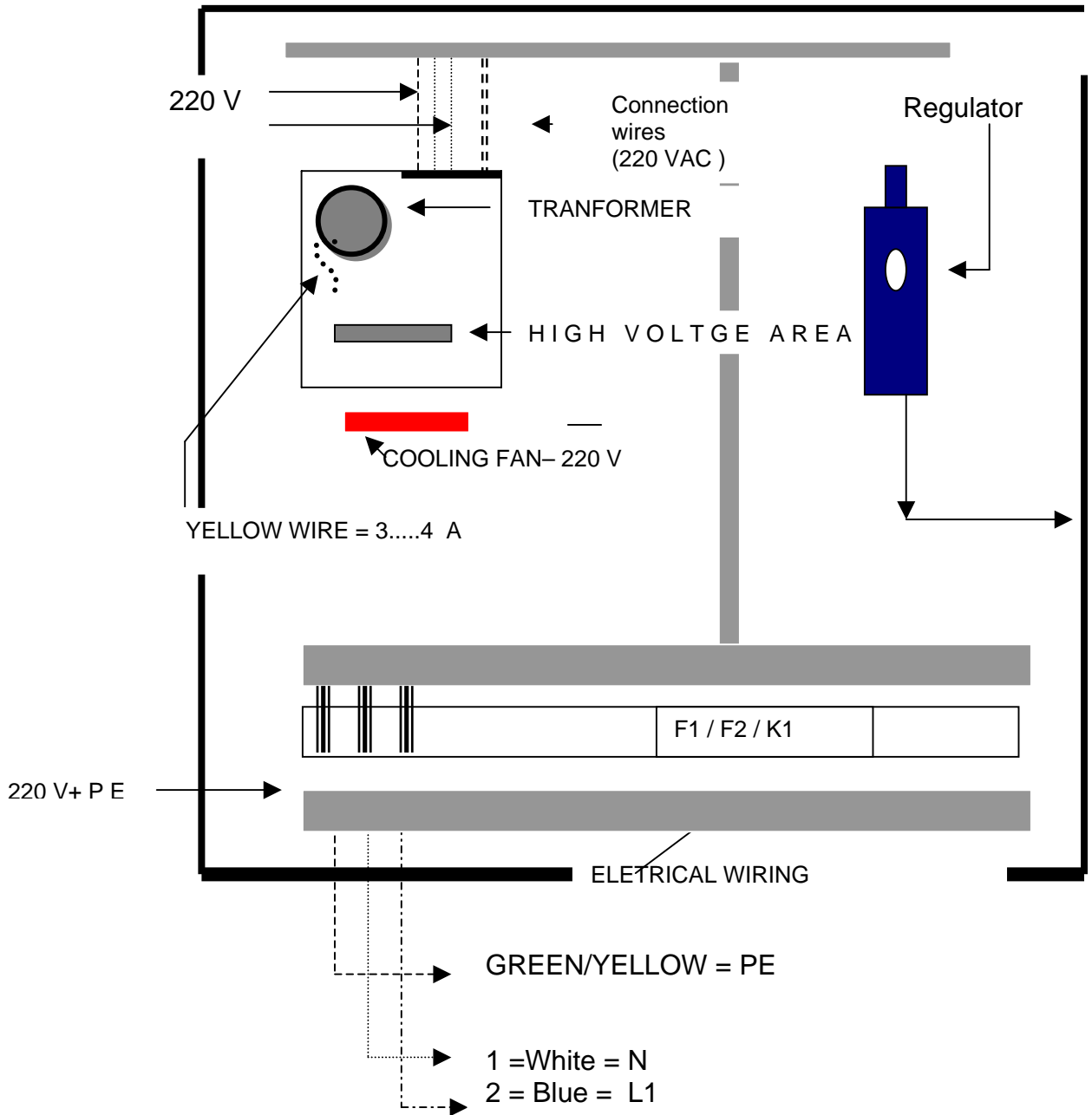
It is used to run and stop the unit

Ampere Meter:

It is used to check the plant operation normally 4 A.

INSIDE THE PANNEL

What you need to know



Attention: 220 VAC + PE 50...60 Hz

- You are operating a high voltage unit with internal 6.000 V the earth must be according to DIN rules under 10 Ohms (10 Ω) resistance

Important :

Only technical personal must open the cabinet. There is HIGH VOLTAGE ✗ inside and risk of death.

Under normal operation the yellow cable at the transformer output have from 3...4 A (see at the Current indicator CI 01)

Inside the glass ozone tube under low light you can see the blue color inside

Check the switch (F 1 e F 2), are on and (I / O). There are one contactor that must go ON(▶▶), if the Ozone is on production.

The 24 VDC converter have one fuse and indication (RED) led.

Air filters must be clean every week using neutral detergent and water

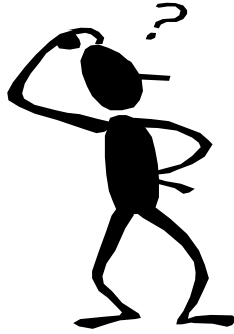
Area must be clean and no dust around the unit

Ejector

The ejector supplied with the unit operates with a 3x difference pressure. It has one membrane inside and coil to ensure the perfect closing when the system is not operating.

ATTENTION: FOLLOWS THE ARROW AT THE EJECTOR FOR THE WATER SENSE OF FLOW

E.g.: You have 2 bar at point of injection, at the inlet of the ejector you must have 6 bar.



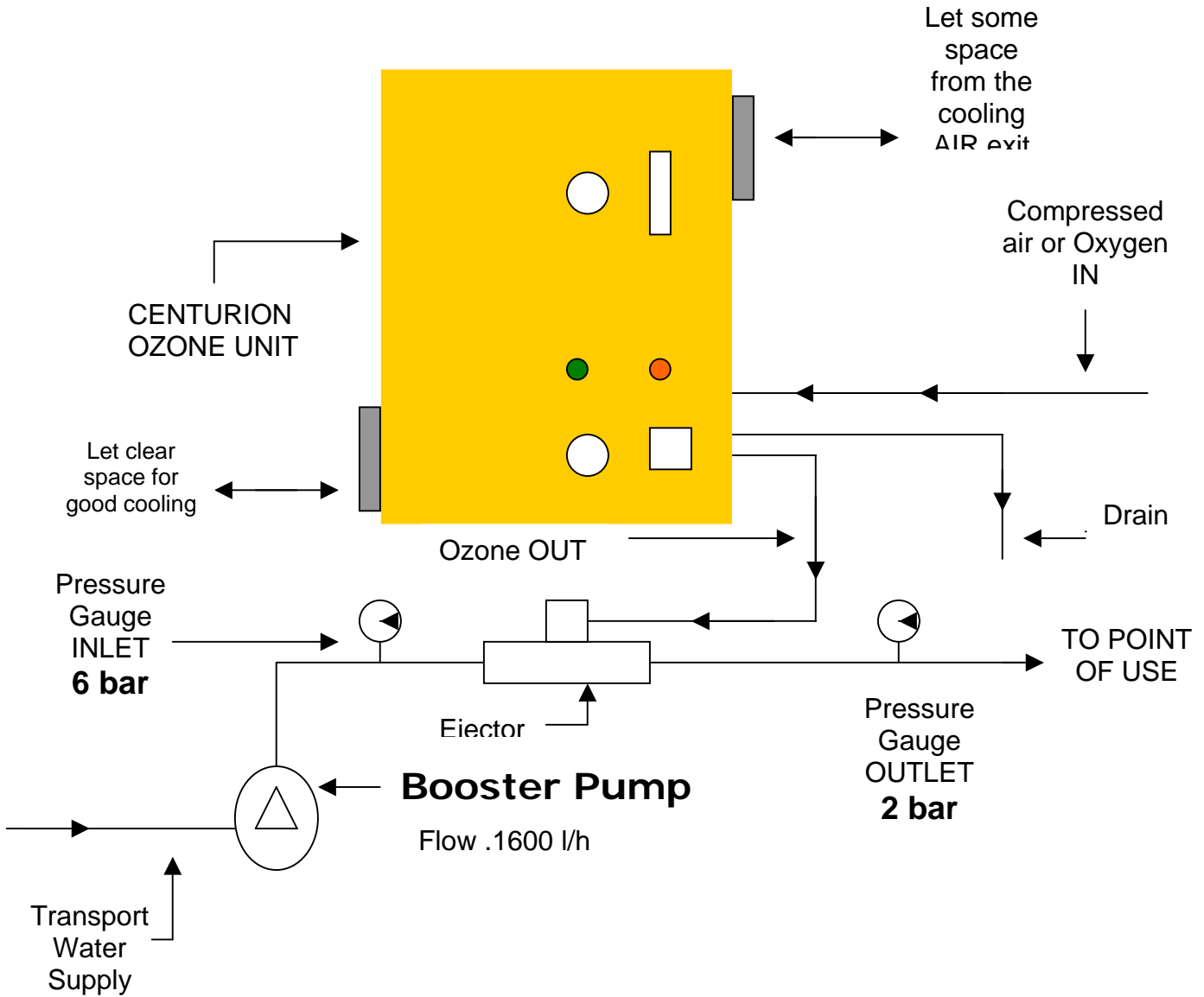
HOW TO OPERATE THE SYSTEM ?

- 1 – Check the valves at the booster pump if they are open.
- 2 – Bleed the line from water and start the booster pump.
- 3 – Check the gauges the inlet pressure at the ejector must be three times the output pressure.
- 4- Turn the ON/OFF switch at the ozone unit.
- 5 – The Green light (POWER ON) will go on and after some delay (few seconds) the Yellow light (OZONE PRODUCTION) will go on.
- 6 – Adjust the ozone output (FLOW METER) for the desired production.
- 7 – With one analysis kit check the residual ozone. Adjust the unit to obtain 0.2 ppm (Bottle disinfection)
- 8 – Operates with vacuum 0.2 bar

**IMPORTANT : You still have some question about the operation?
Please kindly contact us, remember that you be a pleasure for us
to clear out your doubts:**

info@ozonio.com.br

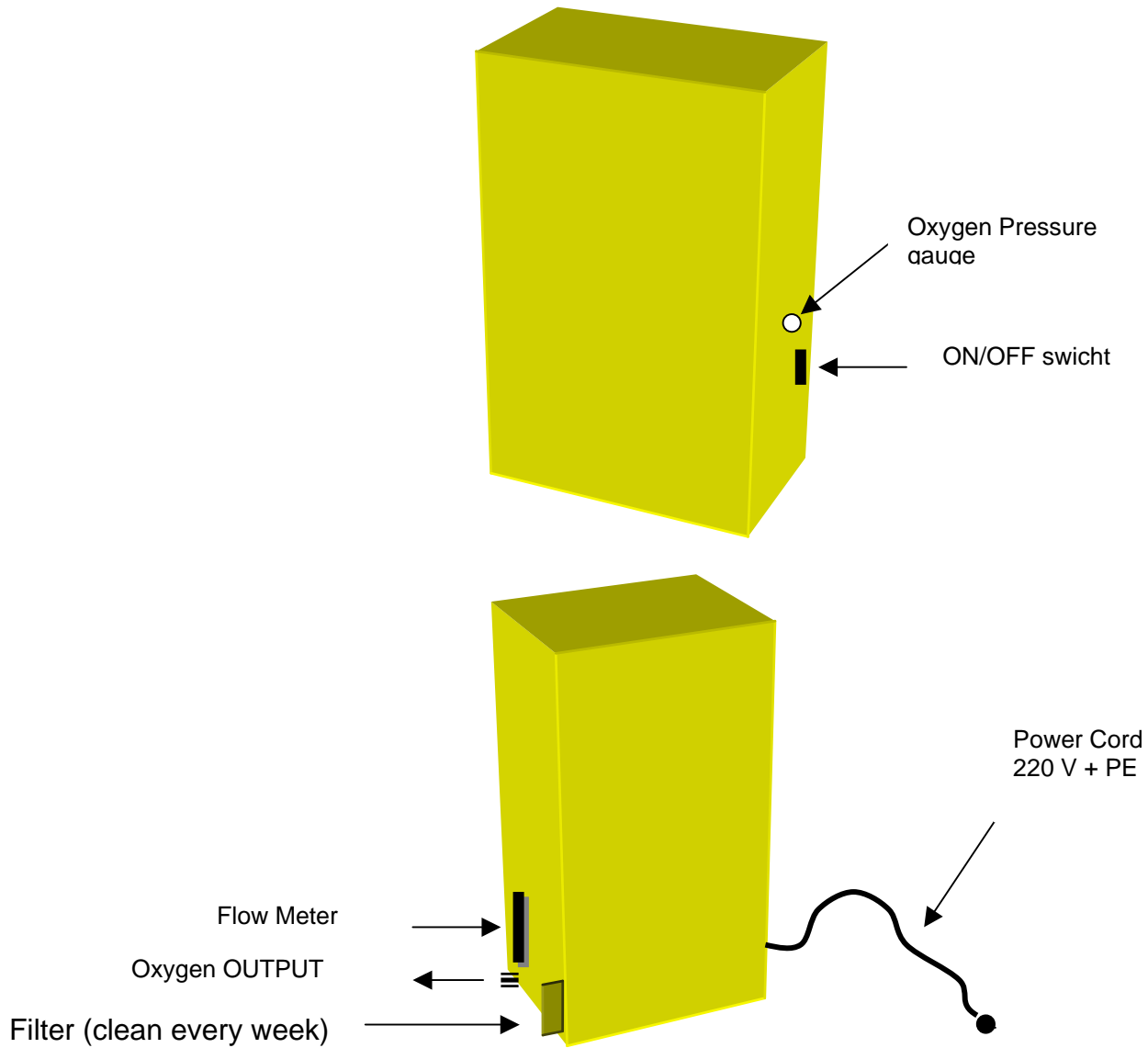
Instalation Diagram



Important: The OZONTECHNIK scope of supply are only Ozone and Ejector.

Oxygen Generator (what you need to know)

*Check the specific manual of the oxygen unit



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