

SONIMIX 4001 Ge<mark>rador de</mark> Ozônio Portátil

SONIMIX 4001 A

Portable Ozone generator

Primary standard

The **LNI SONIMIX 4001A** is a portable and stand alone ozone primary standard, designed to transfer ozone concentrations between the network's laboratory reference and the air pollution monitoring stations.

The SONIMIX 4001 uses the US EPA method of UV absorption by ozone (Beer-Lambert law).

With its 2 references UV photometers, the device measure in alternance the UV intensity without any ozone (I_0) and then the same UV light but through the generated ozone (I_0). With this 2 values, the processor calculate the amount of ozone generated ($\sim I/I_0$).

The instrument generates an outflow of 2.5NI/min AIR containing 10 to 1000 ppb O3, with stability and reproducibility of the concentration better than 1% relative.

The device is able to generate the ozone together with dry or wet air. This able to easily diagnosticate an eventual interference of the humidity on the ozone monitors.

Ready for use a few minutes only after the power is switched on, the SONIMIX 4001A does not need any external gas cylinder (together with the option OP0: internal zero Air Generator) and allows to calibrate the ozone monitors in several points.

To transfer the calibration values from the National Standards, the SONIMIX 4001A includes a function of self linearisation.

Due to it's LCD touch pad display and it's menus, the SONIMIX 4001 is a highly user friendly device.

The precision, stability and the reproducibility of the generated mixtures are due to the joint use of critical orifices, mechanical pressure regulator and the 2 reference UV detector.

The SONIMIX 4001A is mainly composed of:

- ** a complete self-regenerable Zero Air generator, including compressor, drying filter and O3, NO,NO2 scrubber (OP0) and an air humidificator.
- ** a constant flow Air generator (using pressure regulator and sonic nozzles)
- ** an Ozone generator with thermostatisation and regulation by UV light measurement; it also includes atmospheric pressure and temperature corrections
- ** one ozone analyser built with 2 reference UV light detectors.
- ** a set of electronic boards with microprocessor and one LCD touch pad display.



- ✓ Stable and accurate
- ✓ Calibration with dry and humid Air
- ✓ Users friendly
- √ portable
- ✓ Easy to use

Options and accessories:

Option and accessoires

SONIMIX 4001A SONIMIX 4001AOP0 SONIMIX 4001AOP1 SONIMIX 4001AOP2

Descriptions

Multi points ozone generator Internal self regenerable Zero Air Generator Range from 10 à 1000 ppb O3 @ 2.5 NL/min (default option) Range from 100 à 10000 ppb @ 1 NL/min (alternative to the OP1)



Main technical data

Generated gas flow 2500 Nml/min for the mixture

1000 NL/min (Air) for the NIST traceability

Dilution Air With humid or dry Air (if OP0 is installed)

Range of ozone generation: From 10 to 1000 ppb in 1 ppb steps + the zero

(100 to1000 ppb as alternative)

Accuracy Better than 1 % relative Repeatability of the ozone concentration: Less than 1 ppb (over 24H)

Long term stability (3 months)

Less than 2%

Concentration stabilisation time (T99) inferior to 5 minutes

Start up time 30 minutes, (depending of the ambient temperature)

O3 setting by selection of the desired value with the LCD touch pad

display

O3 regulation Measure of the UV light absorption of the generated ozone

by 2 UV reference photometer. (US EPA method and Beer

Lambert law).

Including atmospheric pressure and room temperature

corrections

UV lamp life time: About 10'000 hours

Zero AIR generator life time : Annual preventive maintenance

Zero Air Quality: O3, NO and NO2 < 1ppb

H2O < -40°C dew point

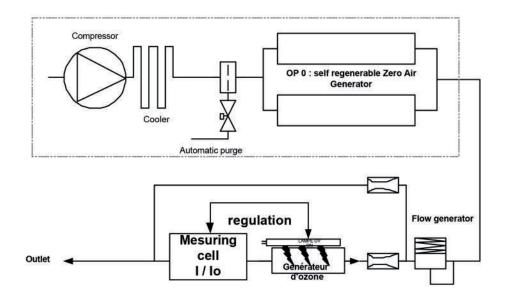
Outlet port: Teflon 1/4 " SWAGELOK fitting

Power consumption: 115 or 230 VAC / 130W Functioning position: Vertical or horizontal

Over all dimensions (h x w x d) 15cm x 28cm x 34cm (handle not included)

Weight: about 15 kg

DRAWING



REPRESENTANTE:



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Caso queira adaptar este produto a suas necessidades usando um sistema de condicionamento, uma automação ou formando um produto, contate:

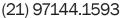
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