GasSens

Water Quality Monitor

A23-14 Ozone Generator

OVERVIEW

Model A23-14 is a portable generator that produces an ozone gas concentration below 1 ppm, which is used to calibrate ozone gas leak detectors under most operating conditions. A compressed gas cylinder is used to supply dry air to the generator where the internal ultraviolet cell converts oxygen gas to ozone gas. The generator output uses a fluorocarbon-based tube to deliver the calibration gas in a known, fixed concentration to the detector without interacting with the tubing material.

Operation of the ozone gas generator is very simple. The UV generator cell is plugged into any convenient power outlet and the valve on the air cylinder is opened. The cylinder valve is a fixed flow regulator so that no flow control is required. The outlet tubing from the generator is connected to your ozone gas sensor for whatever period is needed for calibration and then the system is shut off. Generator output is nominally around 0.8 ppm, but each generator is individually marked with an accurate ozone gas concentration value measured prior to shipment.

Ozone generators are supplied in a durable molded case with sufficient space for outlet tubing and calibration adapters. The basic kit contains the generator, one 103 liter air cylinder with fixed flow regulator, and 3 feet of outlet tubing.

NOTE: The 103 liter air cylinder is included for U.S. customers. International customers must source locally.



SPECIFICATIONS

Generator Type	Ultraviolet
Power	120V AC, 50/Hz standard 220V AC, 50/60 Hz optional
Ozone Concentration	0.8 ppm nominal, individually calibrated
Flow Rate	500 cc/minute
Accuracy	± 0.1 ppm
Warm-up time	1 minute
Temp. limits	5–40 °C
Generator Outlet	5 ft Teflon-lined PVC tube length
Air Cylinder	103 liter disposable cylinder **NOTE:** The 103 liter air cylinder is included for U.S. customers. International customers must source locally.
Regulator Valve	Fixed flow regulator at 500 cc./min.
Case Dimensions	2 in. high × 8 in. wide × 4 in. deep; integral carrying handle
Weight	15 lb (6.8 Kg)

ORDERING INFORMATION

Part Number	Description
00-1054	Ozone gas generator, 120V AC
00-1055	Ozone gas generator, 220V AC

Badger Meter

Product Data Sheet

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