

NoZone[®] Ozone Scrubber USER GUIDE

CAT. #1090-20-3 (115V/220V)



Dual Voltage / Universal Adaptor

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Serial Number

The following serial number identifies the specific instrument you have purchased and must be referenced when requesting service. A copy is affixed to the instrument.

Technical Service: (408) 733-7337, techserv@scigene.com

Warranty

SciGene warrants that the NoZone® Ozone Scrubber described in this manual shall be free of defects in materials and workmanship for a period of 12 months from invoice. This warranty does not cover removable parts or accessories. In the event of a defect during the warranty period, SciGene's limit of liability will be to provide repair service at its factory at no charge or, at its sole discretion, replace the product. The foregoing warranty is void in the event the unit was opened from either end, placed in a high VOC environment, operated in an environment exceeding humidity or temperature specifications, abused, modified or used in a manner inconsistent with its intended purpose. SciGene makes no other warranty, expressed or implied including warranties of merchantability and fitness for a particular purpose. In no event shall SciGene be liable for any direct, indirect, special, incidental or consequential damages or for any damages resulting from loss arising out of or in connection with the sale, use or performance of the product. Repairs should only be performed by personnel approved by SciGene.

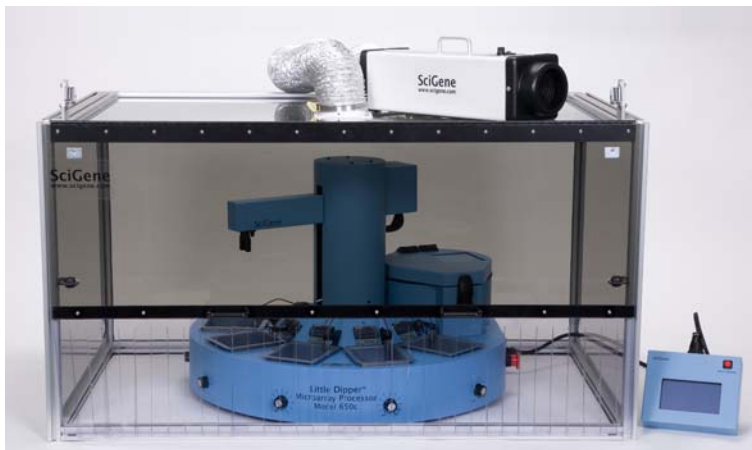
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I. SAFETY NOTICES

A. Intended Use

This instrument is intended for use with SciGene NoZone® enclosures to protect sensitive dyes and arrays from ozone damage. This instrument should only be used according to the instructions provided in the user manual. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.



A NoZone® WS Workspace includes a scrubber and enclosure.

B. Instrument Safety

Before operating the instrument, ensure that anyone involved with the instrument's operation is instructed in both general safety practices for laboratories and specific safety practices for the instrument.

Despite the inherent safe design of the instrument, there are still some residual risks involved. Take the following precautions:



- The unit is sealed and should not be opened.
- There are moving parts inside the unit. All fan guards must be in place before turning on the instrument.
- If you need to check the fuse, make sure the unit is unplugged.
- This unit is intended for commercial and industrial use only.

C. Compliance

All instruments shipped to the European Union (EU; formerly known as the European Community) have the "CE" mark on the instrument label, signifying that these instruments comply with the Electromagnetic Compatibility and Low Voltage Directives.

II. UNPACKING AND ENVIRONMENT

A. Unpacking the Instrument

The **NoZone® Ozone Scrubber** is shipped in a single box with two interior cartons. The larger carton contains the instrument. Open the carton, remove any packing material and lift out the unit out. Ducting and clamps are packaged in the smaller interior carton.

Inspect the instrument and accessories for any shipping damage. If there is evidence of damage, *do not discard the shipping materials* since they may be needed to return the unit. Contact techserv@scigene.com for assistance.

B. Parts Provided

The following items are included with the **NoZone® Ozone Scrubber**:

- Power adaptor (US, UK and Euro plug styles available)
- Flexible ducting (4" diameter)
- Adjustable metal clamps (2)
- *NoZone® Ozone Scrubber User Manual*
- *Installing the NoZone® Ozone Scrubber* document

C. Environment



IMPORTANT: *The NoZone Ozone Scrubber should not be operated in areas where humidity exceeds 90% or where high VOC levels are present. The user must prevent water from condensing on the unit. Use in a low dust environment.*

Environmental Condition	Requirement
Temperature	0 – 120°F (-32 to 48.5°C)
Humidity	0-90% Relative Humidity (non-condensing)
Dust and VOCs	None



III. USING YOUR NOZONE® OZONE SCRUBBER

A. Theory of Operation

The NoZone Ozone Scrubber is designed to destroy ambient ozone levels at a flow rate of 70 SCFM. Ambient air containing ozone enters the instrument and is destroyed with proprietary media. Internal fans propel the air through the unit. Ozone-free air is expelled out the opposite side. The scrubber should be used in conjunction with an enclosure available from SciGene:

- NoZone WS Enclosure (cat. #1090-13-0)
- NoZone TL Enclosure (cat. #1090-11-0)

See **Section XIII Compatible Enclosures** for details.

B. Components

Name	Function
Ozone Inlet	Air flow entry, needs to be kept free from dust and moisture
Air Outlet	Air flow exit for ozone-free air, connects to enclosure ducting
Main Fuse	Electrical fuse for the instrument, can be replaced by the user
Main Power Switch	Turns the instrument ON/OFF
Carrying Handle	Convenient grip for carrying the instrument
Impact Resistant Chassis	Protective cover, not to be removed by the user
DC Power Jack Connection	Connects to power cord
Universal Power Adaptor	Connects to US, UK or Euro-style plug



C. Operation

Plug the unit into the DC power adaptor provided and into a grounded electrical source of sufficient voltage. Connect the DC power adaptor to the side of the scrubber. Push the main power switch to the ON position. Air will be drawn into the ozone inlet and expelled at the air outlet. The user should be able to feel air flowing from the unit.

The unit can be placed in any orientation as long as the air intake is free from obstruction and there is not excessive pressure on the unit's outlet. The unit is designed for indoor use and must remain dry. Refer to the *Installing the NoZone® Ozone Scrubber* document provided for additional instructions.

The **NoZone® Ozone Scrubber** is designed for both continuous and intermittent use. Ambient ozone levels of 100 ppb or less will be reduced to less than 5 ppb at the outlet. Higher ambient ozone levels will result in elevated ozone levels from the outlet.

IV. MAINTENANCE



Do not attempt to remove the cover or perform any service inside the instrument. The NoZone® Ozone Scrubber is a sealed unit.

Due to the sealed design of the chassis and its non-replaceable parts, contact SciGene Technical Services (techserv@scigene.com) or your local distributor if any failure or malfunction occurs.

The proprietary ozone destruct media is renewable and will not require replacement.

A. Checking and Replacing Fuses



Turn the power switch to the OFF position and unplug the power cord before performing any service procedure.

The main fuse is located at the top of the unit. The fuse may be replaced by the customer by turning off and unplugging the unit, then gently twisting and removing the old fuse. A blown fuse appears dark. Always replace fuses with those of the same amperage and voltage as shown on the label.

B. Cleaning

Keep the air inlet free of obstruction by occasionally removing dust with a dry towel. No replacement of catalyst is needed.

V. TROUBLESHOOTING

Symptom	Cause	Solution
Instrument does not turn on.	Blown fuse(s)	Replace the fuse on top of the unit.
Instrument does not turn on.	Power Adapter	Check connections.



VI. SPECIFICATIONS

Electrical	
Voltage	7.5-15VDC
Energy consumption	16.2 Watts
Dimensions	
Chassis (HxWxD)	5 x 5 x 26 in (13 x 13 x 66 cm)
Weight	
Instrument	6 lbs (3 kg)
Performance and Controls	
Flow Rate	70 CFM

VII. ORDERING INFORMATION

Cat. #	Description	UoM
1090-20-3	NoZone® Ozone Scrubber , 115/220V. Includes ducting and clamps.	EA
1090-13-0	NoZone® WS Enclosure .	EA
1090-13-3	NoZone® WS Workspace , 115/220V. Includes a cat. #1090-13-0 enclosure and a cat. #1090-20-3 scrubber.	EA
1090-11-0	NoZone® TL Enclosure .	EA
1090-11-3	NoZone® TL Workspace , 115/220V. Includes a cat. #1090-11-0 enclosure and a cat. #1090-20-3 scrubber.	EA

VIII. COMPATIBLE ENCLOSURES

(HxWxD)	NoZone® WS	NoZone® TL
<i>Outside</i>	25 x 46 x 29 inches, 54 lbs 64 x 117 x 74 cm, 25 kg	44 x 41 x 28 in, 81 lbs 112 x 104 x 71 cm, 37 kg
<i>Inside</i>	24 x 44 x 26 in 61 x 112 x 66 cm	42 x 40 x 26 in 107 x 102 x 66 cm
		

IX. DECLARATION OF CONFORMITY

NoZone® Ozone Scrubber

SciGene
1287 Reamwood Ave
Sunnyvale, CA 94089 USA



Declares that the above referenced product(s) meets the essential requirements of the following European Union Directives by using the relevant standards shown below to indicate compliance.

EMC Directive 2004/108/EC Standards:

EN 61326-1	2006	Electrical equipment for measurement, control and laboratory use to include:
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LVD Directive 2006/95/EC

EN 61010-1	2001	Safety requirements for measurement, control and laboratory use
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Terry Gill

Name of Authorized Representative

Sunnyvale, California, USA

Place of Issue

Director of Product Manufacturing

Title of Authorized Representative

January 01, 2012

Date of Issue

Signature of Authorized Representative

