

# Instruction Manual

## Model G14SD

# Vapor Management System

(For Models: DSD and SSD 110/115v)

*Manufactured in USA for Medivators Reprocessing Systems by:*

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## ***Labels and Symbols***

The meanings of the labels and symbols that appear on the packaging and/or the instrument are as follows:



Dangerous electrical voltage



Hazardous area



Ground point

## ***Environmental Conditions***

- For indoor use only.
- Altitude up to 2,000 meters.
- Temperature range: 5°C to 40°C.
- Maximum relative humidity: 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C.
- Main supply voltage fluctuations not to exceed  $\pm 10\%$  of the nominal voltage.
- Insulation over voltage category II.
- Pollution degree 2.

## ***Supply Ratings***

AC 110-120V 0.5A - 1.0A 50/60 Hz  
Fuse: 1.0 amp externally mounted

# ***Important Information – Please Read Before Use***

## ***Intended Use***

The G14SD has been designed to minimize exposure to chemical fumes from the Medivators Reprocessing Systems/Olympus DSD and SSD automated washer/disinfectors. The unit's exhaust fan and carbon filter remove fumes of high-level disinfectant solutions during the disinfection cycle.

The cabinet design allows for simple attachment to the back of the DSD and SSD machines. Do not use the system for any purpose other than its intended use.

## ***Instruction Manual***

This instruction manual contains essential information on using this system safely and effectively. Before use, thoroughly review this manual and the manuals of all equipment which will be used during the procedure, and use all equipment as instructed.

Keep this and all related instruction manuals in a safe, accessible location.

If you have any questions or comments regarding any information in this instruction manual, please contact PCI medical.

## ***Repair and Modification***

This system contains no user-serviceable parts. Do not modify or attempt to repair it; contact *PCI Medical Inc.* to purchase replacement filters and parts. Equipment damage can result from user attempts to repair or modify system components.

Before attempting to perform routine maintenance on the system, thoroughly review and understand this manual for complete familiarization with the system and its operation.

## ***Signal Words***

The following signal words are used throughout this manual:

- |                       |   |
|-----------------------|---|
| <b><u>WARNING</u></b> | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.   |
| <b><u>CAUTION</u></b> | Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices or potential equipment damage. |
| <b>NOTE</b>           | Indicates additional helpful information.   |

# Chapter 1 Functions

## 1.1 General Information

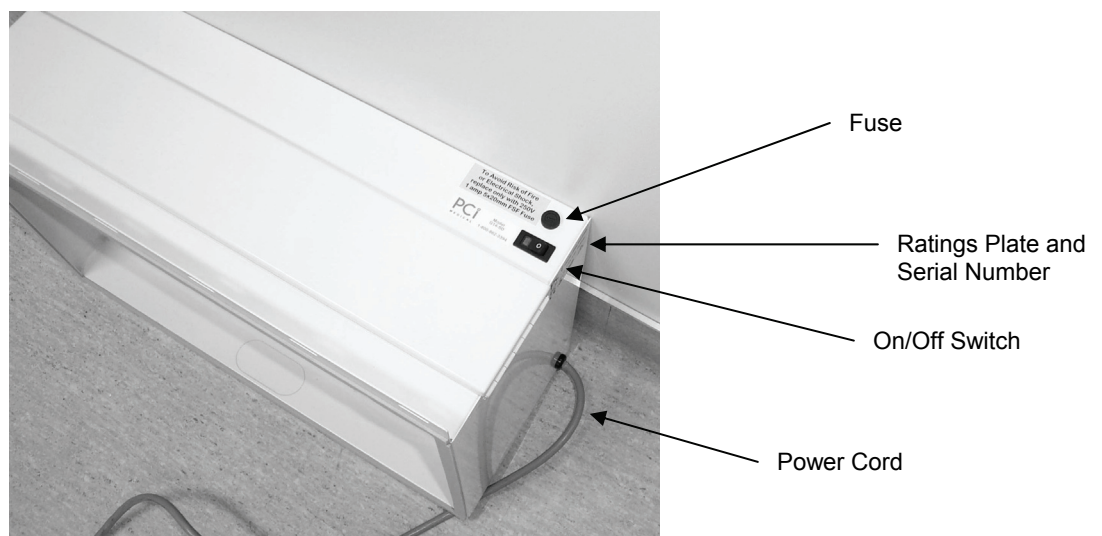


**Figure 1. GUS® Model G14SD Vapor Management System Installed on Olympus DSD**

## 1.2 Switch/Fuse Location

- Power switch – The switch is illuminated red when the system is ON.
- Power cord – Connect to a hospital-grade wall mains outlet.
- Fuse – Type FSF 5 x 20 mm, 1 amp, 250 VAC.
- Return vent – Filtered air is returned to the room through the bottom vent.
- Ratings plate – The model name, electrical information and serial number are shown.

**Figure 2. Switch/fuse location**



## 1.3 Specifications

### Airflow:

Volume of air treated: CFM.....50

Average Face Velocity: FPM .....60

### Electrical:

Voltage ..... 110V 50/60hz

Current-Running..... 19 watts

Current-Max ..... 0.5 amps

### Filters:

Carbon filter ..... activated carbon

**Fan/Blower:**.....backward curved impeller blower

### Construction:

Fume Hood..... powder coated carbon steel & ABS plastic

### Dimensions:

G14SD (Height x Width x Depth) ..... 14.3" x 20.5" x 8"

Weight.....24 lbs

## Chapter 2 Installation and Setup

### 2.1 The 110 Volt Charcoal Fume Removal System Kit, MK01-0055, consists of the following items:

Item	Description	Quantity	Medivators Part Number
1	2-inch Hole Saw	1	MB03-0503
2	Vent Louver	2	MC13-0007
3	Screws	10	MS05-0045
4	Drill Template Side A and B	1	MT06-0506
5	Pilot Drill 0.144 (#27)	1	MB03-0504
6	Charcoal Fume Removal System	1	78399-219

### 2.2 Installation of adaptor box and G14SD

#### Tools needed:

- Power Hand Drill
- Philips Screwdriver
- Tape
- Vacuum

### 2.3 Installation Instructions

- NOTE:**
1. These instructions are for mounting the Charcoal Fume Removal System (CRFS) to the DSD cabinet.
  2. If the DSD already has the vent louver fitted proceed to step 2.3.8.
  3. Wear proper protective gear during this procedure.
  4. If the unit is already hard plumbed, call the facility maintenance personnel to disconnect the unit.
  5. Take extra care while moving the unit if the backside is hard to reach.
  6. Unplug the unit before installation.
- 2.3.1 Open both lids of the unit and mask around the floating lids and the basin openings, as much as possible, to prevent debris and plastic chips from falling inside the basin.
- 2.3.2 Remove the six center screws holding the hinge to the back plate of the unit, as shown in figure 1.

Remove center screws

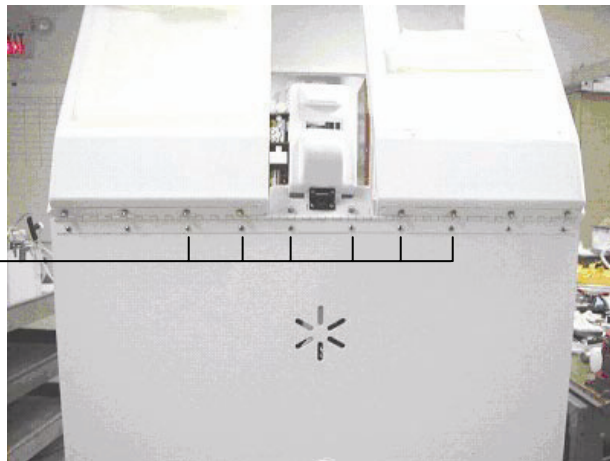
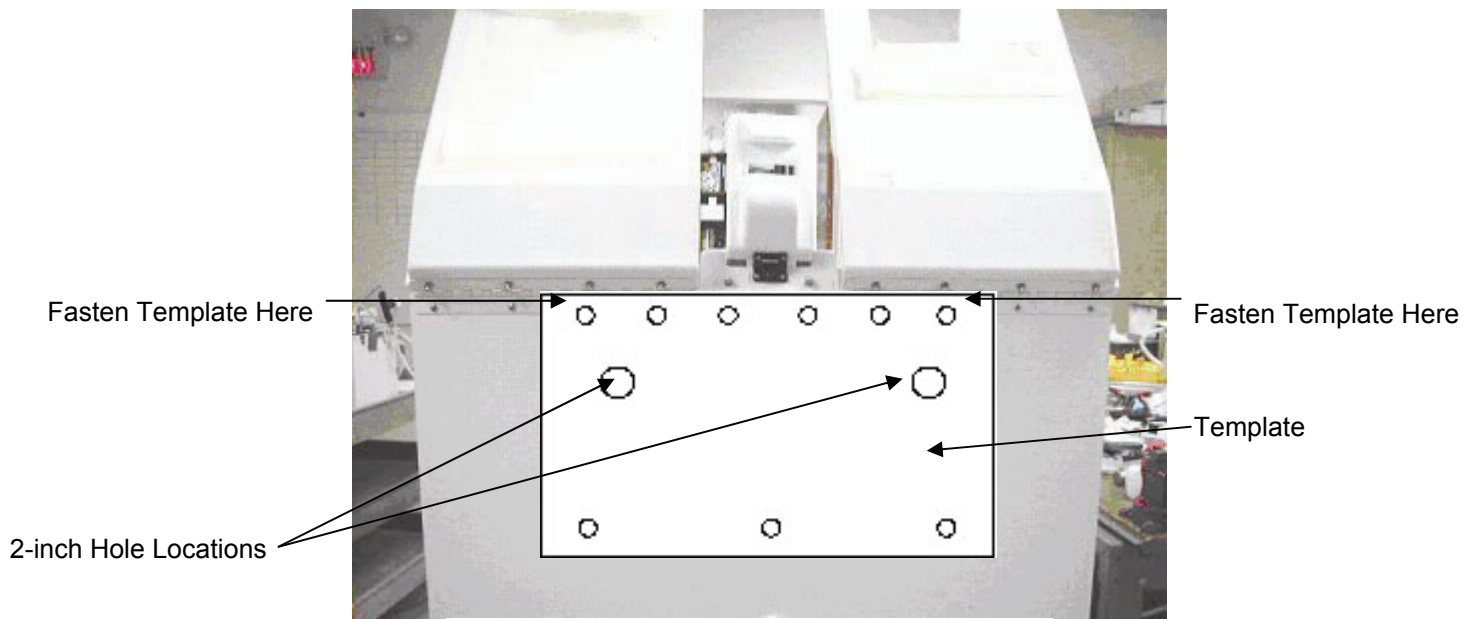


Figure 1.



- 2.3.3 Line up the template, MT06-0506, with the DSD cabinet by matching the six small holes on the top of the template to the six center screw holes that the screws were removed from in step 1.3.2. Refer to figure 2.



**Figure 2.**

- 2.3.4 Attach the template to the DSD cabinet by fastening two screws through the two screw holes on each end of the template. Refer to figure 2.

- 2.3.5 Mark the center of 2-inch holes using the provided pilot drill bit. Refer to figure 2.

- 2.3.6 Remove the template and discard.

- 2.3.7 Drill both 2" holes using the provided hole saw. **It is important to keep the hole saw level to insure the proper fit of the vent louvers.**

- 2.3.8 Unpack the Fume Removal System and make sure the filter is unwrapped and properly in place.

**NOTE:** The charcoal particles in the filter may have settled during shipment. Shake the charcoal filter horizontally to evenly distribute the charcoal particles.

- 2.4.9 Mount the CFRS to the six screw holes at the back of the DSD disinfectant using the provided screws (MS05-0045). Refer to figure 3.

- 2.4.10 Use the pilot drill to pre-drill, the bottom screw holes, 3/16-inch (4.7mm) deep, into the back plate of the DSD disinfectant. **Be careful not to drill through the cabinet wall.** Refer to figure 3.

- 2.4.11 Fasten the bottom side of the CFRS using 3 screws (MS05-0045).

- 2.4.12 Vacuum all chips and debris from behind the unit and from the basin compartments.

- 2.4.13 Insert the vent louvers (MC13-0007) into both 2-inch holes with the openings in the louvers facing down.

- 2.4.14 Attach the power plug to the power cord of the CFRS. (If applicable)

- 2.4.15 Plug the power cord to a proper outlet.

- 2.4.16 Turn on the main switch at the right hand side of the CFRS.

## ***Chapter 3 Operation***

The G14SD is designed to run continuously to prevent any fume build up inside the unit. The red light in the on/off switch will be illuminated when system is operating.

## Chapter 4 System Maintenance

### 4.1 Changing the Filters

The GUS® System has a patented carbon filter that should last six months, even during continuous use. The pleated design of the filters eliminates the need for a pre-filter.

*PCI Medical Inc.* will notify your facility 30 days prior to each filter change and arrange for timely delivery of a replacement filter. The 4-year filter program automatically ships and bills at each change interval, saving your facility time and money. With the four-year program, the prices for the filters are fixed, and if purchased within six months of receipt of your station, the warranty is extended to four years. Please see warranty information for specifics.

**NOTE** Contact *Olympus* to order replacement filters.

**CAUTION** The system's filter must be replaced every six (6) months.

**Wear personal protective equipment – such as eyewear, facemask, moisture-resistant clothing and chemical-resistant gloves.**

**Disconnect the system's power supply before removing the filter.**

1. Turn the system's power switch OFF, and disconnect the power cord from the wall mains outlet.
2. Unlatch the top lid.
3. Remove the old filter by pulling up on the strap located on top of the filter. Place in plastic bag and discard with other non-hazardous waste.
4. Replace with a new filter. Verify that the direction of the arrows on the filter is pointing to the back of the GUS® system.
5. Close and latch lid.

### 4.2 Care

#### ***Cleaning the System***

1. Turn the power switch OFF and disconnect the power cord from the wall-mains outlet.
2. To clean metal surfaces: Use a clean, lint-free cloth moistened with a mild detergent solution and water. A mild solvent may be used on these surfaces for difficult-to-clean areas
3. Make sure that the unit is completely dry before use.

## ***Chapter 5 Troubleshooting Guide***

If the GUS® System is not running, check the following:

1. Ensure that the unit is plugged into a live wall outlet.
2. Make sure the red On/Off switch is on. The switch should be illuminated when on.
3. In the event that the system is still not working, you will need to check the fuse, which is located next to the On/Off switch.
4. Disconnect the plug from wall outlet and remove the fuse. Check to see if the filament is damaged. If so, replace with a standard 1-amp fuse.
5. If the system is still not working, contact *PCI Medical Inc.* at: **1-800-862-3394**

# Warranty

## **FULL ONE-YEAR WARRANTY**

*PCI Medical Inc.* warrants the GUS® Vapor Management System against defects in material or workmanship for a period of one year from the date of delivery. *PCI Medical Inc.* will repair or replace, at its option, with evidences, a defect in material or workmanship within the warranty period. The warranty does not include filters.

*PCI Medical Inc.* assumes no liability for consequential damage of any kind as a result of the use or misuse of the system by the purchaser, their employees or others.

## **LIMITED FOUR-YEAR WARRANTY**

**This warranty is only available to those customers who have issued a purchase order for the four-year filter replacement program within six months of receiving their system.**

During the period beginning with the date of original purchase, and continuing through the fourth year, *PCI Medical Inc.* will repair or replace, at its option, with evidences, any part of the GUS® Vapor Management System within the warranty period if defective in material or workmanship. This warranty does not cover filters or acrylic unless it can be determined that failure is due to defects in material or workmanship.

## **TERMS APPLICABLE TO BOTH WARRANTIES**

What is not covered by these warranties:

1. Conditions and damages resulting from any of the following:
  - Improper installation, delivery within the facility, or maintenance
  - Any repair, modification, alteration or adjustment not authorized by the manufacturer
  - Misuse, abuse, accidents or unreasonable use
  - Incorrect electric current, voltage or supply
  - Failure to follow proper procedures for use outlined in this manual
2. Consequential or incidental damages sustained by any person as a result of any breach of these warranties. Some states do not allow the exclusion or limitation of consequential or incidental damages, so the above exclusion may not apply.

These warranties give you specific legal rights, and you may also have other rights, which may vary from state to state.

## **Filter Guarantee**

*PCI Medical Inc.* guarantees that your filter will adsorb fumes from high-level disinfectants for a minimum of six months under normal use. If a breakthrough should occur during this period, *PCI Medical Inc.* will replace the filter at no charge.

## ***PARTS LIST***

<b>Part Number</b>	<b>Item</b>
MF01-0037	Replacement Carbon Filter

## ***REGISTRATION CARD***

Please complete and return the attached Warranty and Filter Replacement Card to *PCI Medical Inc.*, to ensure proper notification for filter replacements.

You may complete this warranty card online at: [www.pcimedical.com](http://www.pcimedical.com)

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