GUS®

G14KAL

Wall-Mounted
Disinfection Soak Station
For Transvaginal and Transrectal
Ultrasound Probes

Operator's Manual
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**Principle of Operation**

Your probes are suspended in the two outside soaking containers, preventing damage to the sensitive tip. Fumes are drawn into the unit, away from the operator and into the filter.

The center container is used for clean rinse water. This ensures that when the probe is removed from the unit for the final rinse, no high-level disinfectant will drip or off-gas.

Three blowers draw the fumes through the carbon filter where they are effectively neutralized and clean air is returned to the room. No ductwork or external venting is required.

**Safety Precautions**

Disconnect power before replacing filter or when servicing the unit.

Refer to the MSDS of the high-level disinfectant that you are using for additional safety precautions.

**Environmental Conditions**

- For indoor use only.
- Altitude up to 2,000 meters.
- Temperature range: 5°C to 40°C.
- Main supply voltage fluctuations not to exceed +/- 10% of the nominal voltage.
- Insulation over voltage category II.

**Ventilation Requirements**

There must be a minimum of 2” on the right side of the unit (for air flow) and 4” of clearance on the left side (for switch and fuse access).

**Supply Ratings**

G14KAL: AC 110V-120V 0.5A - 2.0A 50/60 Hz

Fuse: Type FSF 5x20mm 1 amp 250VAC externally panel mounted
Warning Symbols

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

- Dangerous electrical voltage
- Hazardous area
- Protective Grounding

Signal Words

The following signal words are used throughout this manual:

**WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION:** 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.

**NOTE:** Indicates additional helpful information.

Quick Troubleshoot

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 On/Off switch (located on left side) is on.
3. In the event that the unit is still not working, check the fuse. The fuse is located on the left side of the unit above the power cord. **UNPLUG UNIT BEFORE UNSCREWING FUSE COVER.**
4. Unscrew the fuse cover and remove the fuse. If the filament is damaged, replace it with a Type FSF 5 x 20mm 1 amp 250VAC.
5. If the unit is still not working, call CIVCO Medical Solutions at 1-800-445-6741.
**Installation and Setup**

Please check to ensure your new system arrived with the following parts.

**Items Included**

- Five hollow wall anchors and screws for wall mounting the unit
- Two ‘High-Level Disinfectant’ warning labels *Note: it is an OSHA requirement that containers holding high-level disinfectants be clearly marked as such.*
- One ‘Initial Rinse’ label
- One indelible ink pen for marking cable
- Three 17” soak/rinse containers with caps
- Two keys to safety door
- One Glute-Out® Caddy with 5 sample bottles of Glute-Out® glycine based neutralizer
- One Philips screwdriver
- Laminated Probe Soaking Instructions (This **MUST** be placed above the workstation)
- Bottom support bracket
- One filter installed in unit

**Wall Mounting Instructions**

1. You will need the following items before attempting to install this unit:
   - Measuring tape
   - Level
   - Pencil or pen

2. Install Bottom support bracket using 3 screws already attached to bottom of unit.

3. Location selection:
   - There must be a minimum of 4” of clearance on the left side (for switch and fuse access) and 2” on the right side of the unit (for air flow).

4. Measure up from the floor to the top of the unit approx. 54 ½” (recommended) or to the comfort level of the operator.

5. At that point, using a level, draw a line approximately 15” long. Mark two points on this line 13” apart.

   **CAUTION:** Anchors should not be installed into wall studs.
6. Using the enclosed Philips screwdriver, press the tip of the wall anchor through these three points and turn clockwise until the anchor is flush with the wall.

7. Screw the three Philips screws into the anchors. Back off the screws approximately 1/8” from the wall and place the unit over the screws.

8. Mark the 2 holes for the bottom support bracket. Remove unit from the wall and repeat step 5.

9. Place the unit back over the three top screws. Screw the two Philip screws into the bottom bracket and tighten. Tighten the top screws.

   **CAUTION:** Do not over-tighten the screws.

10. For masonry walls use a suitable lead or plastic shield and bolt. These shields are not supplied.

11. Remove the tape on the fuse holder, which is on the left side of the soak station.

12. Place labels on containers and insert into unit.

13. Display the laminated Probe Soaking Instructions on the wall in a visible location directly above or beside the unit.
Using High-Level Disinfectants with GUS

Step 1: Probe Soaking Instructions

CIVCO Medical Solution's new soak and rinse containers for the GUS G10VP and G14KA units are 17” tall. This allows your probes to be disinfected past the handle and strain relief.

**CAUTION:** Older probes are not water-resistant above the handle and must not be soaked above the top of the handle. Failure to follow these instructions may result in expensive probe damage, may lead to unsafe use or inability to use, and may result in injury.

Check with your probe manufacturer to determine whether your probe's handle or strain relief can be submerged.

Every probe to be soaked MUST be marked on the cable as follows:

- **If your probe is NOT water-resistant:**
  Suspend the probe into an empty container so that the top of the handle is level with the top of the container.
  Depress blue tab and place probe cable into the grip clip. Mark the cable just above the top of the grip clip using a permanent marker or tape.

- **If your probe IS water-resistant:**
  Suspend the probe into an empty container so that the tip of the probe is about 1/2” above the bottom of the container.
  Depress blue tab and place probe cable into the grip clip. Mark the cable just above the top of the grip clip using a permanent marker or tape.

**IMPORTANT:** By keeping the red mark above the grip clip, the probe will always be at the right length.

(Note: Photo of G10 unit. A G14KAL has three containers.)

**DISCLAIMER:** CIVCO MEDICAL SOLUTIONS IS NOT RESPONSIBLE FOR ANY DAMAGES, DIRECT OR INDIRECT, ARISING FROM OR RELATED TO USERS FAILURE TO FOLLOW THE INSTRUCTIONS SET FORTH ABOVE.
Step 2: Filling the Containers

1. Plug in the unit and switch it on using the ON/OFF switch located on left side of unit. The red indicator will light when the unit is operating.

2. The G14KAL has three containers: two for disinfectant and one for rinse water.

3. Some disinfectants require activation before use; follow the manufacturer’s Instruction for Use. This must be done prior to filling the containers and should be done in the system with the unit turned on. Pour the disinfectant into the soaking containers. DO NOT fill above the shoulder of the container. See Figure below.

4. To prevent evaporation of disinfectant, always replace the screw caps on the containers after removing the probes.

   NOTE: Always replace the screw caps on the containers before turning the station OFF.

   NOTE: Your GUS system should be left running as long as there are chemicals inside the containers.

5. Fill the remaining container with clean rinse water for the preliminary rinse. You MUST have one container for rinse water. This ensures that when the probe is removed from the unit for the final rinse, no high-level disinfectant will drip or off-gas.

Step 3: Ready for Use

Disconnect the cable from the ultrasound machine. The electrical connector may be placed in the top padded compartment of the unit.

CAUTION: It is very important to follow the probe manufacturers’ instructions for cleaning, disinfecting and rinsing your specific probes. The following is a guide only.

Cleaning:

1. Remove any sheath or condom and wipe off gel. Wash probe with enzymatic cleaner or nonabrasive detergent prior to disinfection to remove any foreign material that remains on the probe or cable. Follow the enzymatic manufacturer’s instructions for cleaning.
Disinfection:

1. Using the grip clip, place the probe gently into the soak container according to where the cable has been marked. (Review Probe Marking Instructions in Step 1).

   **CAUTION:** Do not let the probe hit the bottom of the container.

   **CAUTION:** Older probes are not water-resistant above the handle and must not be soaked above the top of the handle. Check with your probe manufacturer to determine whether your probe's handle or strain relief can be submerged.

2. Close the door.

3. Soaking time is dependent on your facility's infection control guidelines. In North America this is between 8 to 20 minutes. (Cidex OPA® is 12 minutes)

Rinsing:

1. The initial rinse is done in the rinse container inside the GUS unit. This is an important step to prevent drips and off-gassing when transferring the probe for the final rinse. After disinfection is complete, push back on the blue tab and lift the probe up, shake it gently to remove large drops of disinfectant. Then place it directly into the rinse container while keeping your thumb on the red mark above the tab.

2. Rinse the disinfectant off the probe by GENTLY swirling it around in the rinse container. The probe can now be removed, wiped with a paper towel, and given a final rinse in the sink. This should be for at least 60 seconds under running cold water. Check the disinfectant manufacturer's instructions for rinsing.

3. Empty the rinse container, flush and then refill with fresh water.

4. For cleaning containers, see "Cleaning the System."

**Repair and Modification**

Do not modify or repair the unit without reviewing with CIVCO Medical Solutions; contact CIVCO Medical Solutions to purchase replacement filters and parts.

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

GUS® has a patented filter that, in normal everyday use, will have a six-month life. Call CIVCO Medical Solutions at 1-800-445-6741 to purchase additional filters.

Filter Replacement

⚠️ WARNING: Put cap on the container containing your disinfectant. Turn the main power OFF and disconnect the power cord from the electrical outlet.

1. Remove the foam pad from the top compartment.
2. Remove the top plate located in the top compartment by turning the captive screws counterclockwise.
3. Remove the old filter by inserting fingers into the finger holes and pulling up. Filter may be snug but should slide up with steady pressure.
4. Using a clean, lint-free cloth, wipe the filter compartment clean of any dust particles that may be present.
5. Replace with a new filter, making sure the airflow arrows are pointing to the rear of the machine.
6. Put the used filter into a plastic bag and dispose of it with other non-hazardous waste. This does not need to be red tagged.
7. Replace the top plate and tighten the captive screws by turning clockwise. Replace the foam pad.
8. Plug in and turn on the machine.

Cleaning the System

⚠️ WARNING: Turn the main power switch OFF and disconnect the power cord from the electrical outlet.

DAILY CLEANING:

1. Remove the rinse water container, empty and wash both the container and cap. Some facilities do this after each use.
2. Using a mild detergent solution on a soft cloth, wipe down the area around the containers.
3. Wipe off any drips around the disinfectant container and cap and below the shelf.
4. Do not spray cleaning liquids on the intake area of the machine as this will damage the filter.
5. After drying the areas, replace the rinse water and disinfectant containers.

Refer to “Filter Replacement” section for additional cleaning steps when changing the filter.
CLEANING THE G14KAL CONTAINERS:

The containers that are supplied with the GUS Disinfection Soak Stations can be cleaned by the following methods:

- In an instrument washer/disinfector with a thermal rinse of 194°F.

  or

- Manually cleaning with soap and water. Rinse the containers afterwards.

The water/rinse container should be cleaned at least daily or in accordance with your facility’s guidelines. The container used for the disinfectant can be cleaned before refilling with fresh disinfectant.

Most customers replace the containers at least once a year, particularly when using OPA, because of its propensity to stain. These are available from CIVCO Medical Solutions.

Disposing of Used High-Level Disinfectants

In some states and municipalities, it is illegal to dispose of used disinfectants without first deactivating them. Deactivation also protects the user from exposure to splashes and spills.

CIVCO Medical Solutions manufactures Glute-Out®, a glycine-based neutralizer (part # 610-1099) which comes in a convenient single-use bottle. Glute-Out® is specifically for use with glutaraldehyde and OPA based disinfectants. For more information, please see the insert that is included with the enclosed sample.

With the unit running, open the bottle of neutralizer and slowly pour the contents into the container of high-level disinfectant. After five minutes the disinfectant is deactivated and it is then safe to dispose of down the sink/drain with the cold water running.

   NOTE: Be sure to put the screw cap on the container before transporting it to the sink/drain for disposal.

IMPORTANT: Thoroughly clean and rinse out the container. With the unit turned on, put the soaking container back into place and refill it with fresh high-level disinfectant.

Main Wiring Diagram

A main wiring diagram is available upon request.

CIVCO Medical Solutions does not disclose detailed circuit diagrams. Spare parts and replacements are available upon request.
Limited Warranty

CIVCO Medical Solutions warrants the CIVCO GUS Disinfection Soak Station to be free of defects in materials and workmanship under normal use, for a period of one year from the date of delivery. This warranty does not include filters, acrylic, or disposal pump unless it can be determined that the failure is due to defects in material or workmanship.

If the system is not working correctly or is defective, contact CIVCO Medical Solutions and we will repair or replace the device at our option during the warranty period.

CIVCO Medical Solutions assumes no liability for consequential damages of any kind as a result of the use or misuse of the system by the purchaser, the purchaser’s employees, or any others.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, OBLIGATIONS OR OTHER LIABILITIES EXPRESSED OR IMPLIED, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARISING FROM A COURSE OF DEALING OR USAGE ARE SPECIFICALLY EXCLUDED.

This warranty does not cover 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.
- Consequential or incidental damages sustained by any person as a result of any breach of this warranty.
  Some states do not allow the exclusion or limitation of consequential or incidental damages, so the above exclusion may not apply.

Specifications and Technical Data

<table>
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<tr>
<th>Model</th>
<th>G14KAL</th>
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<tr>
<td>Number of probes soaked</td>
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<tr>
<td>Face Velocity (FPM)</td>
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<tr>
<td>Weight (lbs.)</td>
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</tbody>
</table>

Registration Card

Please complete and return the attached Warranty Card to CIVCO Medical Solutions. Call 1-800-445-6741 to purchase additional filters.