



GUS[®]

G14KAL

Wall-Mounted

Disinfection Soak Station

For Transvaginal and Transrectal

Ultrasound Probes

Operator's Manual



Manufactured by:

CIVCO Medical Solutions
102 First Street South
Kalona, IA 52247 USA
319.248.6757 / 800.445.6741
WWW.CIVCO.COM

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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.

The system is designed to remove fumes from:

- Glutaraldehyde
- *Ortho*-phthalaldehyde (OPA)
- Hydrogen Peroxide

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 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.

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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.

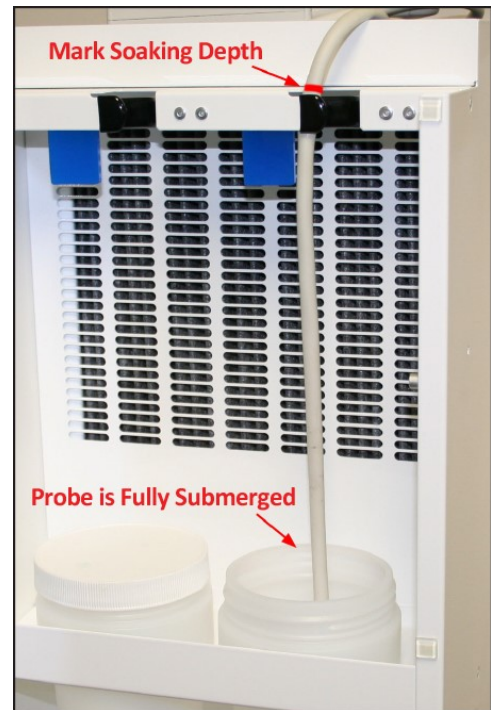
Every probe to be soaked MUST be marked on the cable as follows:



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 and Disinfecting System



CAUTION: Do not use solvents to clean acrylic door. Doing so may damage doors. Use a mild detergent solution on a soft cleaning cloth. Do not wipe surfaces with hard or abrasive materials. Doing so will scratch surfaces.

1. Turn power switch OFF and disconnect power cord from electrical outlet.
2. To clean and disinfect system, use a surface disinfectant containing up to 70% isopropyl alcohol, such as CiDehol® 70, authorized by your infection control department.
 - Follow cleaning and disinfectant chemical manufacturers' instructions for use for required contact time and rinsing instructions.
3. The system and rinse container are able to be cleaned and disinfected weekly. The disinfectant containers are able to be cleaned and disinfected when disinfectant is disposed.
 - Follow your facility's procedures for frequency of cleaning and disinfecting system.
4. It is recommended to use a brush to clean and disinfect containers with hard to reach areas (i.e. tubes).
5. Make sure that the unit is completely dry before use.

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.

Disposal of Disinfectant

Follow high-level disinfectant manufacturers' instructions for use for disposing of the chemical. It is important to check state laws for chemical disposal requirements to determine if neutralization of chemical is required.

Neutralization protects users from exposure to splashes and spills during disposal process. CIVCO Medical Solutions manufactures convenient single-use bottles.

- Glute-Out: glycine and sodium bicarbonate based neutralizer for OPA and Glutaraldehyde
- Oxid-Out: sodium carbonate based neutralizer for Hydrogen Peroxide and Peracetic Acid

Specifications and Technical Data

Model	G14KAL
Number of probes soaked	2
Face Velocity (FPM)	50.0
Electrical (115V 50/60Hz)	0.5A
Space & Weight Requirements:	
Width	21"
Depth	10"
Height (Installed)	59"
Weight (lbs.)	40

Registration Card

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