Space and Site Planning Overview
for using an AC-DS-03 Neutralization System with the TD 100® Automated TEE Probe Disinfector.

Please see your product manuals for specific details.

<table>
<thead>
<tr>
<th>Actual Size</th>
<th>AC-DS-03</th>
<th>TD 100®</th>
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<tr>
<td>Width</td>
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<tr>
<td>Depth</td>
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<tr>
<th>Space and Site Requirements</th>
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<td>Depth</td>
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<td>Height from floor</td>
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<th>Electrical Requirements</th>
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<td>Fusing</td>
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AC-DS-03
Automated Deactivation System
Instruction Manual
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**Principle of Operation**

The AC-DS-03 is a semi automatic deactivation station used in the disposal of high level disinfectants. The operator manually adds the proper quantity of neutralizer and the unit automatically pumps the neutralized disinfectant to drain when full. The unit can be activated to pump the tank at any time with a manual purge feature. The AC-DS-03 can be used in conjunction with automatic processing devices for endoscopic ultrasound probes.

**Safety Precautions**

Disconnect power before replacing or servicing the unit.

Use PPE whenever operating the AC-DS-03 — wear safety goggles, lab coat, proper gloves and face/eye shield.

**Environmental Conditions**

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

**Supply Ratings**

- Voltage: AC 110-120V 0.5A 50/60 Hz
- Current draw: 50 watts
- Fuse: 1 each Type FSF 5 x 20 mm 2 Amp 250VAC externally panel mounted.
Warning Symbols

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

⚠️ 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.

Protective Grounding

Setting up your AC-DS-03

Included with your new AC-DS-03 system is a packet of the following parts:

- Power cord.
- Two E-Z mount wall anchors and screws.
- Two wall mounting brackets
- 10 feet of 3/8” O.D. drain hose
- 10 feet of 3/8” O.D. overflow hose
- Two Right angle 3/8” barbed adaptors
- Two Straight 3/8” barbed adaptors
- One port plug
- One sample packet of NeutraHyde™ (Part # ACX5500) neutralizer. For additional information on NeutraHyde™ neutralizer, contact AirClean® Systems at 800-849-0472.
- One ACFDS03 vapor neutralizing filter
Securing your AC-DS-03

(Tools needed: #2 Phillips head screwdriver, pencil, electric drill)

1. There must be a minimum of 4” of clearance on the left side of the unit to allow for access to the power receptacle and fuse.

2. Place unit within 8 feet of drain connection.

3. Remove screws from either side of the AC-DS-03 and place the slotted wall bracket over the screw hole on the AC-DS-03 and install screws loosely.

4. Position unit against wall for wall bracket installation. Push bracket against wall and mark position of bracket hole. See Figure 1.

5. Repeat on other side of unit.

6. Install the two self-drilling wall anchors at these points until they are flush with the wall. Place bracket over anchor and install Phillips head screws (do not over-tighten). Now tighten

7. For masonry walls use suitable lead or plastic anchors and bolts. These anchors are not supplied.

8. The AC-DS-03 unit has 4 adjustable feet which can be screwed up or down to level the unit.

Figure 1: AC-DS-03 brackets against wall.  Figure 2: Drain fitting


**Plumbing Installation**

1. Once the unit is secured to wall, proceed with plumbing hook up.

2. Cut the 3/8” drain tubing (supplied) to required length and install a right angle barbed fitting (supplied) on both ends of the tubing. The drain DISCHARGE outlet is on the left side of the unit, tubing can be routed under the unit if your drain is on the right side of the AC-DS-03.

3. Install the 3/8” drain tubing between the AC-DS-03 quick disconnect marked “DISCHARGE” on the left side of the unit and a suitable drain (by pushing firmly into DISCHARGE connector.) Make certain that the outlet end of the hose is secure so as not to cause an accidental spill if discharging into a sink. If drain is on the opposite side of unit, route drain-tube behind or under AC-DS-03.

4. If connecting the AC-DS-03 to an automatic disinfector such as a TD-100 install discharge line from the AC-DS-03 into the drain fitting supplied with the unit. See Figure 2.

5. Route the feed line from the supplying unit into the connector on the right side of the AC-DS-03 marked INLET. As above, route the feed line behind or under unit if required.

6. The 3/8” overflow tube can be connected to either side. Use the 3/8” straight barbed connectors to attach the overflow tubing to the AC-DS-03 OVERFLOW connector. Make sure that the drain is lower than the outlets for the OVERFLOW on the AC-DS-03. There are overflow connectors on both sides of the unit.

   **CAUTION!** The overflow connectors are for safety in case of pump failure and will allow tank to drain and not overflow. The overflow connection must be used.

   **CAUTION!** INSTALL THE PLUG (SUPPLIED IN THE INSTALLATION KIT) INTO THE OPPOSITE SIDE OVERFLOW CONNECTOR. Failure to do this can cause spillage in the case of pump failure. See Figure 3.

7. Make sure outlet of the overflow tube is secured to a proper drain. If connecting to an automatic disinfector such as a TD-100 route the overflow tube into the top of the drain fitting supplied. See Figure 2.

8. If using a transfer pump, connect the outlet of the pump to the inlet of the AC-DS-03. Make certain the overflow is connected to the drain.

9. Make sure all connections are tightly installed. Unit is now ready to run.

**Electrical Requirements**

**CAUTION!** Plug power cord into hospital grade GFCI protected wall receptacle.
Figure 3 & 3.1: Typical installations of the AC-DS-03.

PLEASE CALL AIRCLEAN® SYSTEMS AT 1-800-849-0472 WITH ANY INSTALLATION QUESTIONS YOU MAY HAVE
Filter Installation and Maintenance

Initial Filter Installation:
1. Remove the filter (part # ACFDS03) from packaging.
2. Place filter in threaded hole on top cover of the reservoir.
3. Turn clockwise until the filter is tight. Be careful not to cross-thread filter.
4. Make note of the expiration date for your ACFDS03 filter. Filter will need to be replaced on or before the expiration date.

Replacing the Filter:
1. Grasp filter and turn counter-clockwise until it is removed.
2. Remove and discard filter in accordance with facility, local, or state regulations.
3. Obtain new filter and refer to “Initial Filter Installation” instructions above.

Use of AC-DS-03 Automated Deactivation System

The AC-DS-03 Automated Deactivation System is designed to be used for neutralizing high level disinfectants before disposal.

⚠️ CAUTION! Always use proper PPE whenever operating the AC-DS-03.

1. Once the preceding steps (including filter installation) have been followed the unit is ready to be plugged in.
2. Plug the power cord into the power receptacle on the left side of unit.
3. Plug power cord into hospital grade 20 Amp GFCI protected wall receptacle.
4. Push power switch to activate unit. Switch will illuminate when on.
5. LED will flash the yellow “ADD NEUTRALIZER” reset button. See Figure 4.
6. Open cover on top of unit and add an entire packet of NeutraHyde™ neutralizer to the tank through hole on top of unit. See Figure 5. Neutralizer should be added in accordance with the manufacturer’s instructions.
7. Close cover and push “ADD NEUTRALIZER” reset button to turn off the flashing LED.
8. Unit is now ready to accept high level disinfectant.
9. The AC-DS-03 unit can hold a maximum of 6.5 gallons of liquid before it purges.
10. Sensors inside the AC-DS-03 will automatically empty the tank when full. The red LED on the Discharge button will light when pump is operating.

11. Once tank is empty, the “ADD NEUTRALIZER” LED will flash and operator will repeat cycle starting at step 5 above.

12. If tank needs to be emptied any time before reaching the full level, the “OPTIONAL DISCHARGE” button can be pushed at any time to pump out tank contents.

13. Unit will then return to step 5 to initiate cycle.

Figure 4: LED reset and discharge buttons.

Figure 5: Access cover on top of unit.
Cleaning

Monthly Cleaning

In order to make sure the float sensors function properly, flush the AC-DS-03 monthly with two gallons of fresh water. Pour the water through the top opening and push the optional discharge button to flush.

Turn the main power switch “OFF” and disconnect the power cord from the electrical outlet. Use mild detergent solution such as dish washing liquid and water. Hard to clean spots may be cleaned with a light abrasive such as “Soft Scrub”.

Quick Trouble Shoot

If your AC-DS-03 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 front panel) is on.
3. In the event that the system is still not working, check the two fuses. The fuses are located on the left side of the AC-DS-03 in a pull-out drawer on the power receptacle.

⚠️ CAUTION! UNPLUG UNIT BEFORE PULLING OPEN FUSE DRAWER

4. Pull open drawer and remove the fuses. If the filament is damaged replace with a Type FSF 5 x 20 mm 2 Amp 250VAC.
5. If unit is still not working, call AirClean® Systems Customer Service at 1-800-849-0472.

Main Wiring Diagram

A main wiring diagram is available upon request.

AirClean® Systems does not disclose detailed circuit diagrams. Spare parts and replacements are available upon request.
**Limited Warranty**

Please complete and return the attached Warranty Card to AirClean® Systems.

AirClean® Systems warrants the AC-DS-03 Automated Deactivation System to be free of defects in materials and workmanship under normal use, for a period of one year from the date of shipment.

If the system is not working correctly or is defective, contact AirClean® Systems, and we will repair or replace the unit at our option during the warranty period.

AirClean® Systems 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.

What is not covered by this warranty:

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 AirClean® Systems.
- 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**

**Electrical:**
Voltage........................................ 110V  50/60Hz
Current-Running ..................... 50 watts
Current-Max............................. 0.5 amps

**Construction:**
Frame................................. Powder coated carbon steel
Tank................................. Medium density polyethylene

**Dimensions:**
Unit........................................ 12.5” Wide X 16” Deep X 41.25” High
Weight..................................... 35 lbs