



## INSTALLATION & USER GUIDE



# Dri-Stor

## INSTALLATION GUIDE



Read and understand all of the instructions and safety information in this document before operating this product.

**SAVE THESE INSTRUCTIONS**



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## **INTRODUCTION**

It is recommended that this document be read carefully by any individual who will be involved in installing, operating, or maintaining LogiQuip Endoscope Storage and Drying Cabinets, or their components as outlined in this document.

Information, instructions, and safety precautions must be followed as indicated to ensure that product referred to in this guide is used under the best conditions, is properly maintained, adheres to local guidelines and that safety can be prioritized.

There are many different guidelines and industry standards for Endoscope Storage and Drying Cabinets. It is recommended to conduct a facility assessment to determine which guidelines and standards are best to follow and include in your department's policies and procedures.

Where used hereafter, Cabinet, Product, or Unit may be considered to refer to any specific Endoscope Storage and Drying Cabinet, components, and/or applicable installed features described in the applicable portion of the document it is used within.

## **INTENDED USE**

LogiQuip Dri-Stor Cabinets are designed to ensure a clean storage location for disinfected Endoscopes and Probes while protecting them from damage while in storage.

Configurations within the product family may also provide added functionality such as moisture control, scope tracking, and other security features. Specific configurations include:

- Negative pressure providing HEPA-Filtered airflow
- Channel Purge mechanisms for removing moisture from internal channels
- Digital tracking and control of scope storage through the addition of EndoTrack with either Barcode Scanner or RFID Reader.

All reprocessing steps provided in the Endoscope's instructions for use, including drying steps, need to be completed before placing any device in the Cabinet.

Prior to first use, hospital-grade disinfectant must be used to perform cleaning of the Cabinet, and any tube set accessory product flushed – following the manufacturer's instruction for reprocessing before storing Endoscopes in the Cabinet.

## **ELECTRICAL SUPPLY**

- North America 120 Vac, 60 Hz, 15 Amp Standard Deluxe Receptacle
- Typical Full Load Amperage ~1 Amps
- It is recommended to plug any Cabinet into a dedicated circuit
- Units with EndoTrack should be plugged into an outlet connected to the emergency backup circuit
- Disconnect power whenever servicing the Cabinet, by unplugging the power cord

## **ENVIRONMENT CONDITIONS**




The Cabinets have been designed for use within medical facilities. They are designed to be safe within the following conditions:

- Indoor Use ONLY
- Temperature Range: 15-35°C
- Maximum Relative Humidity: 80% up to 25°C and decreasing linearly to 50% relative humidity at 35°C

## SAFETY PRECAUTIONS


### SYMBOL DEFINITIONS

The following symbols appear within this manual or on the product to increase visibility of necessary safety precautions, instructions and key information as described below.

	Indicates key detail or reference for instruction, maintenance, compliance, or unique configuration of the product.
	<b>WARNING/CAUTION:</b> Indicates risk of potential personal injury and/or potential damage to device.
	<b>WARNING/CAUTION:</b> Indicates risk of electric shock or burn hazard causing potential personal injury and/or potential damage to device.

### MALFUNCTION INSTRUCTIONS

The following symbols appear within this manual or on the product to increase visibility of necessary safety precautions, instructions and key information as described below.

	<b>WARNING: PERSONAL INJURY</b> Please follow all instructions alongside any/all applicable health & safety practices. Please follow all instructions alongside any/all safety protocols and regulations applicable to the location, organization, and workplace environment.
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#### IN THE CASE OF HAZARDOUS MALFUNCTION:













1. Immediately stop using the device.
2. Use the troubleshooting information on pages 35-38 to determine what is causing the issue.
3. If it is not possible to identify or eliminate the cause using this document, switch the device off and call LogiQuip Customer Support at (800) 665-3760.

## SAFETY PRECAUTIONS (CONTINUED)

It is the duty of installers, operators, or maintenance persons to ensure that noted information, safety precaution, and instruction is observed alongside applicable regulations when installing, operating, or performing maintenance tasks on any LogiQuip Dri-Stor Drying Cabinets.

- **WARNING** indicates the potential for personal injury
- **CAUTION** indicates the potential for damage to equipment

For emphasis, certain Safety Precautions and informational notes are repeated throughout the manual. It is important to review these before installing, operating, or servicing the unit.

	<b>WARNING: PERSONAL INJURY</b> Product may weigh in excess of 750 lbs. Ensure adequate personnel and equipment is available to perform uncrating procedures. Uncrate on a level floor.
	<b>WARNING: PERSONAL INJURY</b> Do not modify this equipment without authorization from the manufacturer. If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment.
	<b>WARNING: PERSONAL INJURY</b> Avoid tipping hazard, ensure product is leveled, and secure when positioning.
	<b>WARNING: PERSONAL INJURY</b> Repairs and adjustments to this equipment should be made only by fully qualified service personnel or verified persons. Maintenance performed by inexperienced, unqualified personnel or installation of unauthorized parts could cause personal injury, invalidate the warranty or result in costly damage.
	<b>WARNING: PERSONAL INJURY</b> This product may only be used with the accessories delivered by or approved by LogiQuip. The use of any other accessories is not verified for safety.
	<b>WARNING: PERSONAL INJURY</b> Please follow all instruction alongside any/all applicable health & safety practices. Please follow all instruction alongside any/all safety protocols and regulations applicable to the location, organization and workplace environment.
	<b>WARNING: LACERATION</b> Always wear safety goggles, safety gloves, and safety shoes when loading, unloading, positioning, or otherwise handling product to avoid injuries.
	<b>WARNING: TRIPPING HAZARD</b> Route the power cord to the receptacle in a position so that it will not be tripped over by personnel in the area.
	<b>WARNING: POSSIBLE EQUIPMENT, PROPERTY DAMAGE, OR HAZARD</b> A step stool must be kept within the immediate area which is sufficient to reach over the Cabinet to access the mains power receptacle on the back at the top to disconnect the power at the source in an emergency situation.
	<b>CAUTION: DAMAGE TO EQUIPMENT</b> Use recommended cleaners only to clean stainless steel and product surfaces. Never use a wire brush, abrasives, or steel wool on the equipment. Do not use chloride on stainless steel surfaces. Chloride based cleaners will deteriorate stainless steel.
	<b>WARNING: ELECTRIC SHOCK</b> Do not access serviceable or live current areas, nor clean near electrical connection points unless until all utilities have been properly disconnected.
	<b>WARNING: ELECTRIC SHOCK</b> Do not replace or use Mains cords with inadequately rated supply. Use only cables labeled for applicable voltage or voltage range, frequency or frequency range, and/or power or current RATING when stated on the label by LogiQuip, and install in the order of the instructions shown. Only cables verified and provided by LogiQuip for a specific Cabinet may be used.

## PRODUCT SPECIFICATIONS

### PRODUCT CONFIGURATIONS

Two primary physical configurations of Endoscope Storage Cabinet are manufactured and produced which each support multiple functional configurations of components.

These are differentiated by the physical location of compartment used to hold the systems and components needed for Cabinet functions – either – in a dedicated side Cabinet adjacent to the scope storage area, or, in a separated compartment at the top, above the scope storage area.

### SIDE-LOAD CABINET

The physical housing of a standard Side Component Compartment Endoscope Storage Cabinet model – also referred to as a 'Side-Load Cabinet' – includes the following:

- **Main Cabinet:** A glass door Cabinet provided as the storage compartment for flexible Endoscopes and containing large diameter scope hangers. This may be outfitted to include other types of small diameter or specialty scope hanger if required.
- **Component Cabinet:** A dedicated 13" wide Cabinet that houses the components (i.e. HEPA Fan, Channel Purge Pumps etc.), that are necessary for the Cabinet to function.

An optional additional scope storage unit, functionally identical to the main Cabinet, may be added during ordering for installation alongside the main and component Cabinet. This is referred to as a:

- **Add-On Cabinet:** An additional glass door Cabinet for added storage space for flexible Endoscopes. This contains large diameter scope hangers and may be outfitted to include other types of small diameter or specialty scope hanger if required.

### TOP-LOAD CABINET

The physical housing of a standard Top Component Compartment Endoscope Storage Cabinet model – also referred to as a 'Top-Load Cabinet' – includes the following:

- **Main Cabinet:** A glass door Cabinet provided as the storage compartment for flexible Endoscopes and containing large diameter scope hangers, with components (i.e. HEPA Fan, Channel Purge Pumps, etc. required for Cabinet functions) located at a separate compartment at the top of the Main Cabinet above the storage area. This may be outfitted to include various other types of scope hanger if required.
- Select models may have upgrade options such as EndoTrack, and additional scope capacity are available. Contact LogiQuip Customer Support at (800) 665-3760 for more information.



Models of product may be able to be functionally upgraded to a different standard of configuration.  
(Ex. to add tracking functionality or scope capacity. ) Contact LogiQuip for information on applicability.

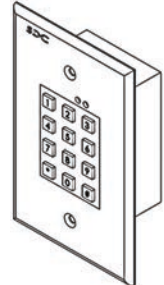
Where configuration and installed features may have been tailored alongside customer input, contact LogiQuip Customer Service with questions unique to a specific unit.

## OPTIONAL FEATURES & ACCESSORIES

### KEYPAD SECURITY LOCK

This security feature allows restricted access to personnel that have a unique 4-digit code, for up to a maximum of 50 unique codes. The Keypad is configurable to add/remove codes as required by the user.

Compatible Models include: HEPA Endoscope Cabinets and HEPA Channel Purge Endoscope Cabinets



### ENDOTRACK SYSTEM

EndoTrack allows you to easily manage and track Endoscope equipment from an intuitive interface. Utilizing Barcode or RFID Technology, the EndoTrack System provides controlled access and security to your Cabinet as well as the ability to track the hang time of each Scope.



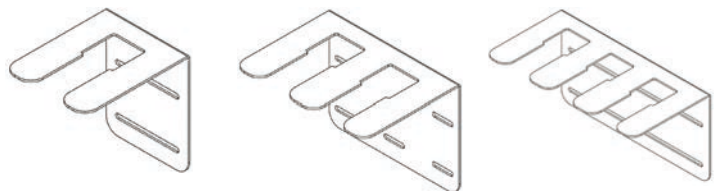
### DOOR ALARM BUZZER

This optional feature notifies a user if the door has been left open for longer than five (5) minutes.

Compatible Models include: HEPA Endoscope Cabinets and HEPA Channel Purge Endoscope Cabinets

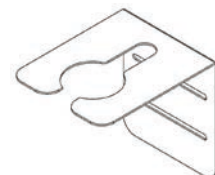
### SMALL DIAMETER SCOPE HANGERS

Small diameter scopes may be accommodated for storage with optional small diameter scope hangers. These hangers are located on the back wall or side walls of the Cabinet. These types of scopes include sidewalls and are not limited to Cystoscopes, Intubation Scopes, ENT Scopes.



### EUS SCOPE HANGERS

The EUS scope hanger setup consists of two hangers. The scope head hangs from the large diameter hanger on the ceiling of the Cabinet and the Ultrasound connector will sit on the EUS scope hanger that is mounted on the back of the Cabinet.

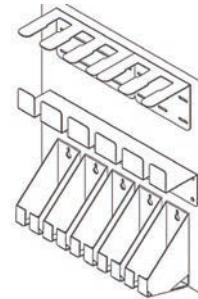




## OPTIONAL FEATURES & ACCESSORIES (CONTINUED)

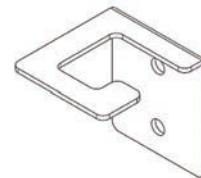
### ULTRASOUND PROBE HOLDERS

The Ultrasound Probe Holders are designed to hold both abdominal or inter-cavity ultrasound probes. They come in two (2), three (3), or five (5) holders.



### ENTEROSCOPE SCOPE HOLDERS

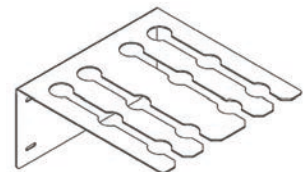
The Endoscope hanger consists of 2 small guides that are attached to the sides of the Cabinet. The Endoscope hangs on a large diameter scope holder and the insertion tube that hangs, is guided through the two hooks to keep the distal tip of the scope off the bottom of the Cabinet.



A maximum of two (2) Endoscope scope holders can be installed in one (1) Glass Door Storage Cabinet.

### OLYMPUS SMALL DIAMETER VIDEOSCOPE HOLDERS

The Ultrasound Probe Holders are designed to hold both abdominal or inter-cavity ultrasound probes. They come in two (2), three (3), or five (5) holders.

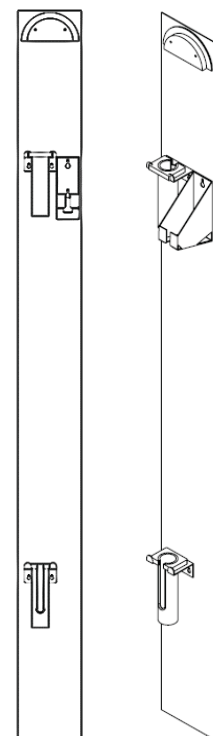


### TEE PROBE HOLDERS

TEE (Transesophageal Echocardiography) Probes require a specialized hanger setup. The setup consists of four (4) parts.

The transducer connector fits into the custom holder, while the transducer cable wraps around the strain relief hanger.




The probe hangs from the top hook, through the slotted acrylic cylinder, and through the bottom hook with an acrylic cylinder to protect the distal end of the probe.







## PRE-INSTALLATION INSTRUCTIONS

### SITE PREPARATION

Prior to order confirmation, please discuss requirements for installation with your LogiQuip Sales Representative. Discuss all pre-installation information with your Sales Representative.

	Follow Local Guidelines & Codes. The height of the GFCI outlet should follow any local code requirements as well as facility guidelines.
	Ensure adequate clearance along passageways from the unloading dock to the site of install.
	<b>WARNING: PERSONAL INJURY</b> Product may weigh in excess of 750 lbs. Ensure adequate personnel and equipment is available to perform uncrating procedures. Uncrate on a level floor.

### INDICATIONS FOR INSTALL

	<b>WARNING: PERSONAL INJURY</b> Product may weigh in excess of 750 lbs. Ensure adequate personnel and equipment is available to perform uncrating procedures. Uncrate on a level floor.
	<b>WARNING: LACERATION</b> Always wear safety goggles, safety gloves, and safety shoes when loading, unloading, positioning, or otherwise handling product to avoid injuries.
	<b>WARNING: PERSONAL INJURY</b> Avoid tipping hazard, ensure product is leveled and secure when positioning.
	<b>WARNING: TRIPPING HAZARD</b> Route the power cord to the receptacle in a position so that it will not be tripped over by personnel in the area.

## PRE-INSTALLATION INSTRUCTIONS (CONTINUED)

### TOOLS REQUIRED

- Electric Drill
- No. 2/3 Robertson (Square Head) Bit
- Utility Knife
- Furniture Dolly
- 2mm Phillips Screwdriver
- 8mm Allen Key (Supplied for Side-Load ONLY)
- Flathead Screw Driver
- $\frac{5}{16}$ " Nut Driver
- Step Ladder/Stool
- Level
- Pallet Jack/Forklift
- Furniture Dolly (2)
- Tape Measure
- Cable Ties
- Rubber Mallet
- Pry Bar
- Composite Shims
- Stainless Steel Cleaner
- Glass Cleaner
- Rags for Cleaning

### BEFORE GETTING STARTED

Ensure electrical outlets are installed and can be reached by 8' cords. If both outlets in a duplex are to be used, the outlets must be facing opposite directions in order to accept the plugs. If the Cabinet has the EndoTrack feature, it should be plugged into an outlet on the emergency backup circuit. For facilities covered by OSHPD, the wall must be prepared prior to installation. Record the serial number before standing the unit up.



#### **WARNING: PERSONAL INJURY**

Avoid injury from falling crate panel when removing screws. Two people are required for uncrating the unit. One person must secure the crate panel while the second person is removing the screws.



#### **WARNING: POSSIBLE EQUIPMENT DAMAGE**

Avoid damage to the unit. Secure the center support. Do not allow the center support to fall on the unit.

## UNCRATING INSTRUCTIONS

The Endoscope Cabinet will typically be shipped in a wooden crate. If so, follow all instructions below to remove the wooden crating material, otherwise skip to Step 6: Remove Packaging.

1. Using a fork lift or pallet jack, transport the unit to a level floor near the installation site (Fig. 1).
2. To uncrate, remove the screws from both end panels using an electric drill and No. 2 Robertson (square head) bit and place the end panels aside (Fig. 2).
3. Remove top panel screws (Fig. 3). There are three screws on each side and three screws in the center. Set top panel aside.
4. Unscrew and remove the three top support braces and place them aside. Ensuring supports do not fall on product.
5. Once the top braces have been set aside, remove the remaining side panels and also set them aside (Fig. 4).
6. Remove packaging. Once all the wooden panels and supports have been removed and set aside, remove the shrink wrap and tie straps (x3) with a utility knife.
7. Remove the tape from the door handles and remove all boxes, including the drip pan, from inside the Cabinet.
8. Secure the doors shut with cable ties to keep them from opening and potentially breaking the glass.



Fig. 1: Level Floor



Fig. 2: Remove Screws and End Panels



Fig. 3: Remove Top Panel



Fig. 4: Remove Remaining Side Panels

## TRANSPORTING DRI-STOR CABINET(S)

**WARNING: PERSONAL INJURY**

It is recommended to use a furniture dolly (or similar) to easily transport the Cabinet(s) to their destination.

1. Once the doors are secured, place both dollies next to the crate, one (1) dolly on each end of the cabinet. Slide the Cabinet over to the Dollies from the crate. (Fig. 5).
2. Transport the Cabinet and the received packages of components and accessories to the site location where Cabinet units will be installed one at a time.
3. Once all Cabinets are at their destination, stand up the Cabinet(s) upright. Unscrew and remove the three top support braces and place them aside. Ensuring supports do not fall on product.
4. Cut Straps securing Cabinet doors.
5. Remove the protective film covering the stainless steel.
6. Check inside of the Cabinet and remove all contents (drip pan and boxes).



Fig. 5: Place Cabinet on a four-wheel dolly

## CONFIRM RECEIPT OF ORDER CONTENTS

Prior to installation, ensure that you have the following standard packaging contents for your model, in addition to any accessories or expected options which are indicated by your ordering details.

MODEL	CONTENTS
HEPA	<ul style="list-style-type: none"> <li>• Primary Package (Labeled Box of Components)</li> <li>• Removable Drip Tray (1/Cabinet)</li> <li>• HEPA Fan (1/Cabinet)</li> <li>• HEPA Control Box (V2 Control Configuration Only)</li> </ul>
HEPA with Channel Purge	<ul style="list-style-type: none"> <li>• Primary Package (Labeled Box of Components)</li> <li>• Removable Drip Tray (1/Cabinet)</li> <li>• HEPA Fan (1/Cabinet)</li> <li>• Channel Purge Pump (1/10 Scope Hangers)</li> <li>• In-Line HEPA Filter (1/Pump)</li> <li>• HEPA Channel Purge Control Box</li> </ul>
HEPA with EndoTrack	<ul style="list-style-type: none"> <li>• Primary Package (Labeled Box of Components)</li> <li>• Removable Drip Tray (1/Cabinet)</li> <li>• HEPA Fan (1/Cabinet)</li> <li>• APC Battery Backup</li> <li>• CPU + Power Supply</li> <li>• Major Control Box (V2 Control Configuration Only)</li> </ul>
HEPA with Channel Purge & EndoTrack	<ul style="list-style-type: none"> <li>• Primary Package (Labeled Box of Components)</li> <li>• Removable Drip Tray (1/Cabinet)</li> <li>• HEPA Fan (1/Cabinet)</li> <li>• Channel Purge Pump (1/10 Scope Hangers)</li> <li>• In-Line HEPA Filter (1/Pump)</li> <li>• APC Battery Backup</li> <li>• CPU + Power Supply</li> <li>• Major Control Box (V2 Control Configuration Only)</li> </ul>



HEPA Filter



APC Battery  
Back-Up



Channel Purge Pump  
(blue or green)



Removable Drip Tray



Barcode  
Scanner



RFID  
Scanner



Dual Scanner  
Barcode/RFID



CPU



Touchscreen



In-Line Filter



## INITIAL SET-UP

Install Cabinet products one unit at a time.

### PLACING & PREPARING SIDE-LOAD CABINET(S)

This section applies to all Side Load models.



The 'Main' Cabinet refers to the Glass Cabinet to the **Left** of the Component Cabinet.  
The 'Add-On' Cabinet refers to the Glass Cabinet to the **Right** of the Component Cabinet.

1. Using the 8mm Allen Key supplied with the shipment, remove the locking front panel of the component Cabinet for access to the serviceable area. Set aside panel in a location which does not create a hazard.
2. Place the Cabinets side by side in the final location for installation.
3. Insert power cord extending from glass Cabinet light bar through corresponding hole in component Cabinet, plugging into the power strip in back of component Cabinet. Route any other component Cabinet cables and Tubing through the matching holes.
4. Bring the Cabinets together and then insert an  $\frac{8}{32} \times \frac{3}{4}$  screw, lock washer, and washer into the six (6) side panel holes loosely, these will be secured firmly in a following step (Fig. 6).

Fig. 6



5. Connect the power cord to the upper rear of the component Cabinet.

## INITIAL SET-UP (CONTINUED)

### PLACING & PREPARING TOP-LOAD CABINET(S)

This section applies to all Top Load models.

1. Using a Phillips head screwdriver, remove the locking top panel of the component compartment for access to the serviceable area. Set aside panel in a location which does not create a hazard.
2. Connect the power cord to the upper rear of the component Cabinet.

### LEVELING THE CABINET(S)

This section applies to all models.





	<b>WARNING: POSSIBLE EQUIPMENT DAMAGE</b> Ensure sure the Cabinet is level front to back as well, so the scopes will hang straight and not touch the rear interior panel of the Cabinet.
	If the leveling foot is difficult to move, use a pry bar or applicable device to gently lift up on the Cabinet frame to move pressure off the foot.
	Adjusting the leveling feet will have the opposite effect on the Cabinet. (i.e. Bringing the Back-Right leveling downward, will tilt the Cabinet Forward and Left)



Fig. 9

1. With the glass doors closed on the Cabinet, look at the top of the doors to check which way the Cabinet needs to move to be leveled.
2. Use a flat head screwdriver to adjust the leveling feet of the Cabinet when top access is available in the interior (Fig. 7 ), alternately use a wrench to adjust the nut from the exterior (Fig. 8). Composite Shims can also be used to help with this.
3. Periodically check leveling, by ensuring that the top of the doors and handles are aligned (Fig. 9), use level as necessary to confirm front-to-back leveling.
4. **SIDE LOAD ONLY:** Once the Cabinet is leveled, secure the Cabinets more firmly together by tightening the  $\frac{8}{32} \times \frac{3}{4}$  screw into the six (6) side panel holes.

	<b>WARNING: POSSIBLE EQUIPMENT, PROPERTY DAMAGE, OR HAZARD</b> A step stool must be kept within the immediate area which is sufficient to reach over the Cabinet to access the mains power receptacle on the back at the top to disconnect the power at the source in an emergency situation.
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## INSTALLING HEPA FAN(S) & FLOW SENSOR(S)

This section applies to all models.

1. Insert the grill duct (Fig. 10) from inside the glass Cabinet and secure using four (4)  $\frac{8}{32} \times \frac{3}{4}$  screws. Ensure the flow sensor, as applicable, is facing towards the front of the Cabinet.
2. Install the duct over the grill duct (Fig. 11). Secure the connection with the hose clamp and a flat head screwdriver.
3. Cover any unused, vacant grill duct cut-out locations with blank cover (Fig. 12).
4. Remove the HEPA Fan from its packaging, Turn the HEPA Fan switch to the ON position (marked by an 'I' symbol) and then take the other end of the duct and place it over the HEPA Fans' duct collar. Secure the duct by tightening the hose clamp using a flat head screwdriver.
5. **SIDE LOAD:** Place the HEPA Fan on the bottom shelf of the component Cabinet with the ON/OFF switch facing towards the left (Fig. 13).

**SIDE LOAD ADD-ON CABINET:** The second HEPA Fan can be placed on the second shelf from the bottom, and steps repeated for the second grill duct.

**TOP LOAD:** Place the HEPA Fan in the top compartment shelf with the ON/OFF switch facing towards the left.

6. Connect the HEPA Fan power cord(s) into the power bar in the serviceable component area.
7. **HEPA & HEPA CHANNEL PURGE ONLY:** Connect the Cabinet Light Bar(s) into the power bar in the serviceable component area.
8. Verify that the power bar is switched to the ON position.



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Light Bar installation for Tracking (V1) Cabinets is completed within instruction for [Electrical Plate and CPU Installation](#).  
Light Bar installation for Tracking (V2) Cabinets is completed within instruction for [Major Control Box Installation](#).

## INSTALLATION OF CONTROL SYSTEM COMPONENTS



### WARNING: ELECTRIC SHOCK

Do not replace or use Mains cords with inadequately rated supply. Use only cables labeled for applicable voltage or voltage range, frequency or frequency range, and/or power or current RATING when stated on the label by LogiQuip, and install in the order of the instructions shown. Only cables verified and provided by LogiQuip, LLC for a specific Cabinet may be used.

Per product configuration continues with the following install steps (page 18-21):

MODEL	STEP	INSTALL SEQUENCE
HEPA	V1	• NONE
	V2	• Install HEPA Control Box
HEPA with Channel Purge	V1	• Install Channel Purge Pumps Without Sensor Kit • Install HEPA Channel Purge Control Box
HEPA with EndoTrack	V1	• Electrical Plate and CPU Installation • APC Battery Back-up Set Up
	V2	• APC Battery Back-up Set Up • Major Control Box Installation
HEPA with Channel Purge & EndoTrack	V1	• Install Channel Purge Pumps Without Sensor Kit • Electrical Plate and CPU Installation • APC Battery Back-up Set Up
	V2	• Install Channel Purge Pumps for Sensor Kit • APC Battery Back-up Set Up • Major Control Box Installation

## INSTALL HEPA CONTROL BOX

1. Remove the HEPA Control Box and the power supply from the packaging
2. Connect the Flow sensor (labeled F1) from the Main Cabinet to the F1 port on the HEPA Control box (Fig. 15).
3. Connect the Door Sensor (labeled D1) and connect the LED Light M8 Cable to the control box (Fig. 15).
4. Finally, connect the power supply to the control box and then plug it into the component compartment's power bar (Fig. 16).



Fig. 15



Fig. 16

## INSTALLATION OF CONTROL SYSTEM COMPONENTS (CONTINUED)

### INSTALL CHANNEL PURGE PUMPS WITHOUT SENSOR KIT

1. Connect the in-Line HEPA Filters to the Channel Purge Pumps (Fig. 17), and then connect the Tubing to the in-Line HEPA filter. Secure the connection using a butterfly clip (Fig. 18).
2. Repeat Steps for each Channel Purge Pump included in your ordered configuration.

### INSTALL CHANNEL PURGE PUMPS FOR SENSOR KIT

1. Obtain the packaging with the barb tee connectors, Tubing, labeling, and butterfly clips (Fig. 19).
2. Labeling: PUMP1 and PUMP2 packaged labels are provided for Main Cabinets, whereas PUMP3 and PUMP4 labels are provided for Add-On Cabinets.
3. Identify the Channel Purge Tubing for Pump 1, and cut it just above the top shelf using tube cutters or a side-cut pliers.
4. Slide the butterfly clip onto each end of the Tubing, and then insert the tee connector onto the end of each hose.
5. Secure the connection using the butterfly clips, and then label the ¼" Tubing using the provided PUMP1 label.
6. Repeat Steps 1-4 for each Tubing.
7. Remove the Channel Purge Pumps and In-Line HEPA Filters from the packaging
8. Connect the in-Line HEPA Filters to the Channel Purge Pumps (Fig. 17), and then connect the Tubing to the in-Line HEPA filter. Secure the connection using a butterfly clip (Fig. 18).
9. Repeat Steps for each Channel Purge Pump included in your ordered configuration.



Fig. 17 - Blue or Green



Fig. 18

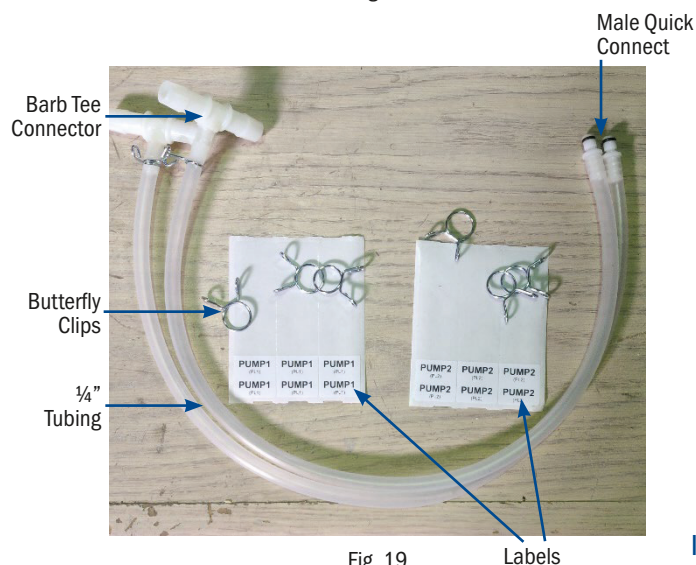


Fig. 19

## INSTALLATION OF CONTROL SYSTEM COMPONENTS (CONTINUED)

### INSTALL ELECTRICAL PLATE & CPU

1. Plug three-prong 120V power supply from control manifold into power strip (Fig. 20) located in component compartment.
2. Connect door lock cable (L1) to control manifold (L1). If Add-On storage Cabinet is present, connect door lock cable (L2) to control manifold (L2).
3. Attach CPU to control manifold mounting plate, typically by sliding standoffs onto the black metal mounting plate to attach.
4. Connect VIDEO cable to CPU.
5. Connect USB cable P1 from control manifold to CPU port on the backside of CPU.
6. Connect CPU power supply (PS) to CPU. This cable is located on the top left-hand side of control manifold.
7. Plug other end of power cable for CPU (PS) into power adapter (PA1). Power cable for CPU is located in the middle of right-hand side of control manifold.
8. Plug RJ45 Ethernet cable located in back of component compartment into Ethernet port located on front of CPU.
9. Plug USB cable (P2) located on left side of control manifold into front of CPU.
10. Connect the Glass Cabinets light power cord (labeled as AUX1) into the AUX1 outlet.
11. If present, Connect the Add-On Cabinets light power cord (labeled as AUX2) into the AUX2 outlet.
12. Obtain power adapter (PA3) and connect the adapter to door lock connector (DL) coming from the top right of the control manifold. Plug power adapter (PA3) into power strip mounted to the back of component compartment.

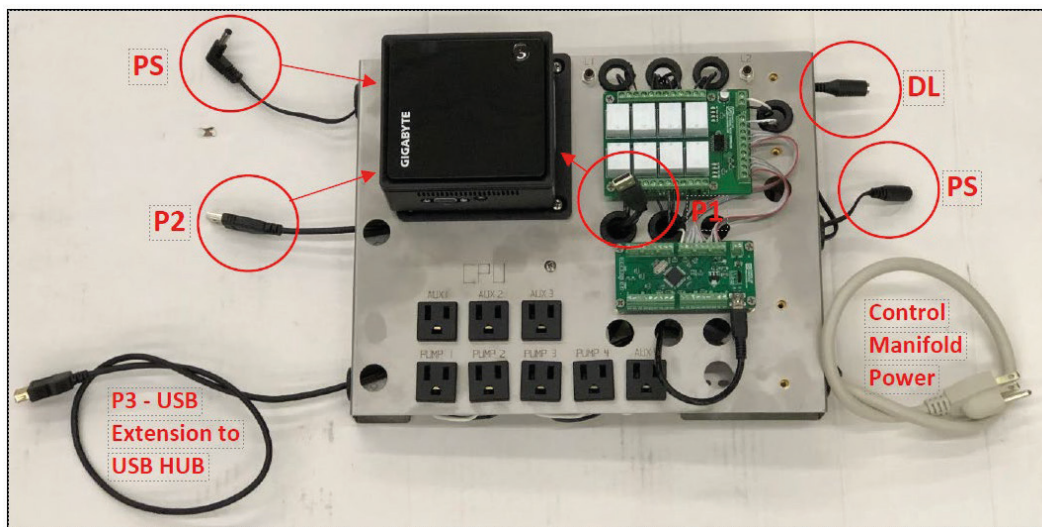


Fig. 20



## INSTALLATION OF CONTROL SYSTEM COMPONENTS (CONTINUED)

### CONNECT CHANNEL PURGE PUMP(S) TO ELECTRICAL PLATE CONTROLS

1. Plug pump power cord into Pump 1 outlet on control manifold (Fig 21). Repeat steps 2 to 4 for channel Channel Purge pumps (if applicable).
2. Please see Dri-Stor Tubing Set for more information.



Fig. 21

### CONNECT ENDOTRACK TOUCHSCREEN TO ELECTRICAL PLATE CONTROLS

1. Plug USB hub (located on component compartment door) into female USB (P3) coming from lower right hand of control manifold (Fig 22).
2. Connect video cable from control manifold into touchscreen.
3. Plug power adapter (PA2) and, as applicable, touch screen keypad.
4. Plug USB cable from barcode scanner (BC) into front open USB slot on CPU.



Fig. 22



Touchscreen keypad remains hanging from the touchscreen on the component door and is only used in situations where there are power issues with the touchscreen.

## APC BATTERY BACK-UP SET UP



The APC Battery Back-Up will be referred to as a UPS (Uninterruptible Power Supply)

1. Open the battery compartment by pressing the tab and sliding the cover out (Fig. 23).
2. Remove the yellow instructions tape attached and pull out the battery halfway from the UPS to access the battery terminal connections (Fig. 24).
3. Using the plastic white tabs, connect the positive female connector (denoted by a '+') on the battery to the positive male connector (Fig. 25).
4. Place the battery back into the UPS and slide the cover back into its original position. Once the cover is on, place the UPS on:  
 SIDE LOAD: The right side of the top shelf inside the component compartment.  
 TOP LOAD: The upper right compartment area (Fig. 26).
5. Plug the UPS's power cord into the component compartment's power bar (Fig. 27).



Fig. 23



Fig. 24



Fig. 25



Fig. 26



Fig. 27

## MAJOR CONTROL BOX INSTALLATION



All power cords and pressure sensor Tubing connections are located on the back of the Major Control Box. Ensure everything is connected before placing the Control Box inside the Component compartment.

### TO THE BACK OF THE MAJOR CONTROL BOX (Fig. 28)

1. Connect the Major Control Box power cord into the outlet labeled POWER.
2. Connect the Glass Cabinets light power cord (labeled as AUX1) into the AUX1 outlet.
3. If present, Connect the Add-On Cabinets light power cord (labeled as AUX2) into the AUX2 outlet.
4. Connect labeled the Channel Purge pressure Tubing to their respective Channel Purge ports on the control box.
5. Connect the Channel Purge Pumps power cords (labeled Pump 1 to Pump 4) to their respective electrical outlets on the Major Control Box
6. Place the Major Control box into the topmost shelf of the component compartment.

### TO THE FRONT OF THE MAJOR CONTROL BOX (Fig. 29)

7. Connect the Lock cables (labeled L1) to the L1 port, the Flow sensor cables (labeled F1) to the F1 port, and the Door Sensor cables (labeled D1) to the D1 port.
8. Connect the USB cables (labeled GPIO32 and Relay8) to the USB ports on the front of the control box.
9. If present, connect the Add-On Cabinet sensor cables labeled: L2, F2, and D2 to the respective ports as well.



Fig. 28



Fig. 29



## MAJOR CONTROL BOX INSTALLATION (CONTINUED)

### CONNECT CHANNEL PURGE PUMP(S) TO MAJOR CONTROL BOX

1. Plug pump power cord(s) respective to the Main Cabinet into PL1 (and PL2 if applicable) outlet(s) on the Major control box. Where an Add-On Cabinet is present, plug pump power cord(s) into PR1 (and PR2 if applicable) as well.

### CONNECTING CPU & TOUCHSCREEN TO MAJOR CONTROL BOX

1. Connect the CPU Power supply (labeled as PA1) to the CPU (Fig. 30).
2. Connect the Scanner USB cable, the USB extension cable (labeled as USB 3.0), and the VIDEO cable to the CPU (Fig. 30).
3. Connect the GPIO32 USB cable into one of the 2 USB ports on the back of the CPU (Fig. 31).
4. Connect the RELAY8 USB cable (labeled as RELAY8) to the USB Hub and the female end of the USB Extension cable to the USB Hubs' USB cable (Fig. 32).
5. Connect the CPU power supply (labeled PA1) and Touchscreen Power Supply (labeled PA2) to the "Battery Backup" side of the UPS (Fig. 33).
6. Connect the Major Control Box power cord to the component compartment's power bar.



Fig. 30



Fig. 31

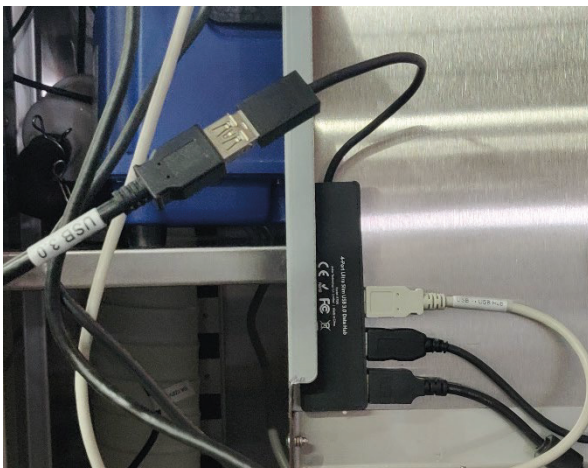


Fig. 32



Fig. 33



## INSTALL HEPA CHANNEL PURGE CONTROL BOX

1. Place the control box on the topmost shelf in the component compartment (Fig. 34).
2. Attach the control box power cable into the back of the control box and plug into the power bar mounted on the back of the component compartment (Fig. 35).
3. Plug the power cable from the Channel Purge air pump(s) into the outlet labeled “PUMP 1” and – in the case of two pumps – the second into “PUMP 2” on the control box.
4. Plug the M8, 4-pin data cable coming from inside the component Cabinet into the M8, 4-pin port on the HEPA Channel Purge control box. For three (3) or four (4) Pump systems two control boxes are required, repeating steps above to install.

Fig. 34

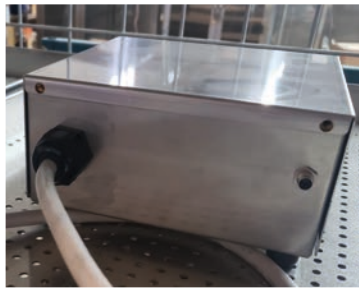


Fig. 35



## INSTALL FINAL HARDWARE

1. Return the component compartment panel/door to a locked position.  
 SIDE-LOAD: Use the 8mm Allen key to secure the panel in place (Fig. 36). Place the 8MM Allen key into the grommet on the top of the Cabinet for storage.  
 TOP-LOAD: Use a Phillips head screwdriver to replace screws to secure the panel in place.
2. Remove the Pre-Filter from its packaging (Fig. 37) and slide it into the slotted channels on top of the component Cabinet (Fig. 38).
3. Place the Removable Drip Tray into the interior base of the Glass Cabinet (Fig 39).
4. Plug Cabinet power into prepared electrical outlet.



Fig. 36

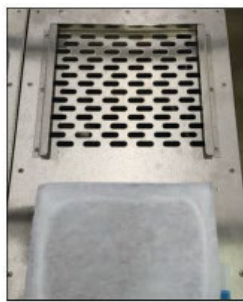


Fig. 37

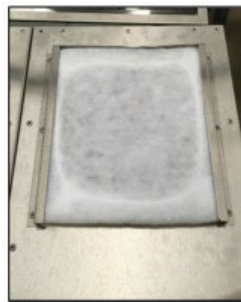


Fig. 38

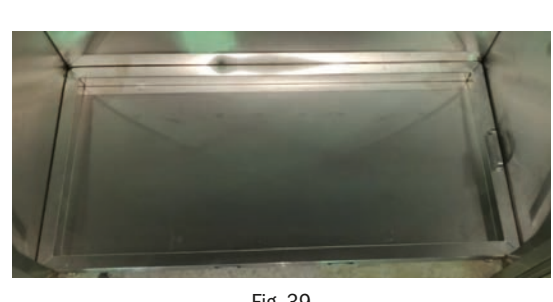


Fig. 39



Your Cabinet is now ready to be turned on. Next you must perform a **Test of Component Functions**, to ensure all components are operational.

## TEST OF COMPONENT FUNCTIONS

### COMPONENT AND LEVELING TEST

1. Check door operation by opening and closing doors completely, verifying smooth operation.
2. Verify door hinges are secure and are not hindering door operation.
3. Verify Cabinet sits level and Cabinet doors sit flush with Cabinet.
4. Verify door magnets are present and come into contact with door strike plates.



If the above can not be confirmed, review the leveling and positioning of the Cabinet and work to adjust as needed to correct.

### HEPA & HEPA CHANNEL PURGE SYSTEM TESTS (V1)

1. Turn the Component Cabinet on, by flipping the on/off switch to the ON position.
2. Check that the component Cabinets' power is ON (indicated by a red light), and that the glass Cabinet storage compartment light bar illuminates.
3. Check that the HEPA Fan is ON and there is airflow into the Glass Cabinet through the duct
4. If Channel Purge systems are Installed, monitor flow from each pump until it is confirmed that air is flowing as a result of each pump connected.

### HEPA & HEPA CHANNEL PURGE SYSTEM TESTS (V2)

1. Turn the Component Cabinet on, by flipping the on/off switch to the ON position.
2. Check that the component Cabinets' power is ON (indicated by a red light), and that the glass Cabinet storage compartment light bar illuminates.
3. Check that the HEPA Fan is ON and there is airflow into the Glass Cabinet through the duct.
4. Open the Glass Cabinet doors and leave them open for 45 seconds. Check that the yellow/right LED light turns on.
5. Step 5: Close the Glass Cabinet doors, and check to ensure that the yellow/red light turns off.
6. If Channel Purge systems are Installed, monitor flow from each pump until it is confirmed that air is flowing as a result of each pump connected.

### TRACKING HEPA & HEPA CHANNEL PURGE SYSTEM TESTS

1. Turn the Component Cabinet on, by flipping the on/off switch to the ON position.
2. Check that the component Cabinets' power is ON (indicated by a red light), and that the glass Cabinet storage compartment light bar illuminates.
3. Check that the HEPA Fan is ON and there is airflow into the Glass Cabinet through the duct.
4. Check that touchscreen turns on, and is responsive to touch, and scanner accessories are showing an active indicator light.

## CONFIGURE ENDOTRACK TRACKING SOFTWARE SETTINGS

To complete the install, software settings need to be configured and confirmed for the configuration of the Cabinet, and the supervisor or manager of the department prior to use.

These settings may be altered at any time in the future to meet changing functional needs.

### SETTING DATE/TIME

Go To Supervisor Page

1. From the Main Screen, press the Logo located on the Top Left of the screen.
2. Enter the Access Code to access the Supervisor page (Fig. 40).
3. Adjust the Date and Time as required (Fig. 41) on the **Settings Tab**.
4. Press Save.

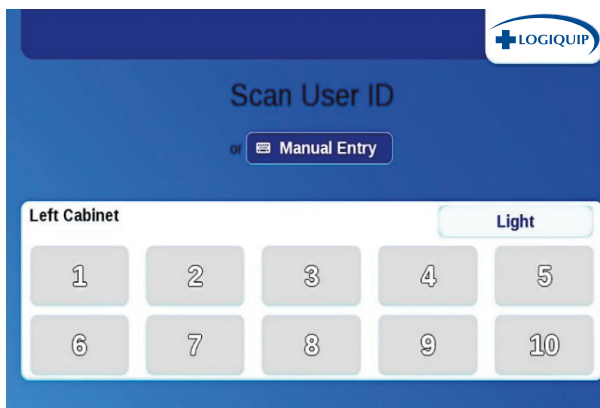


Fig. 40

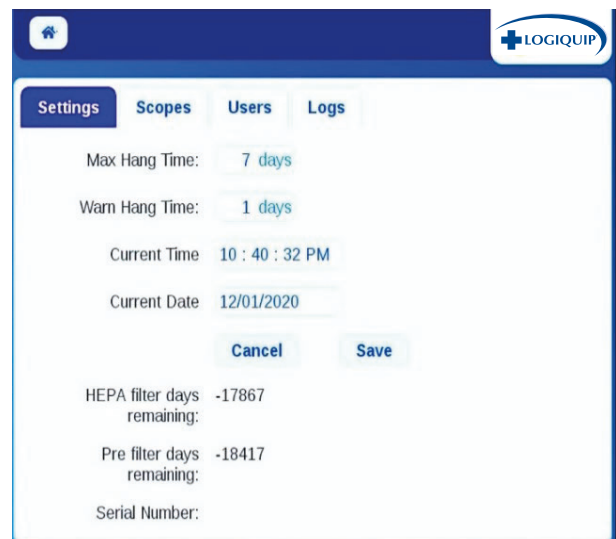


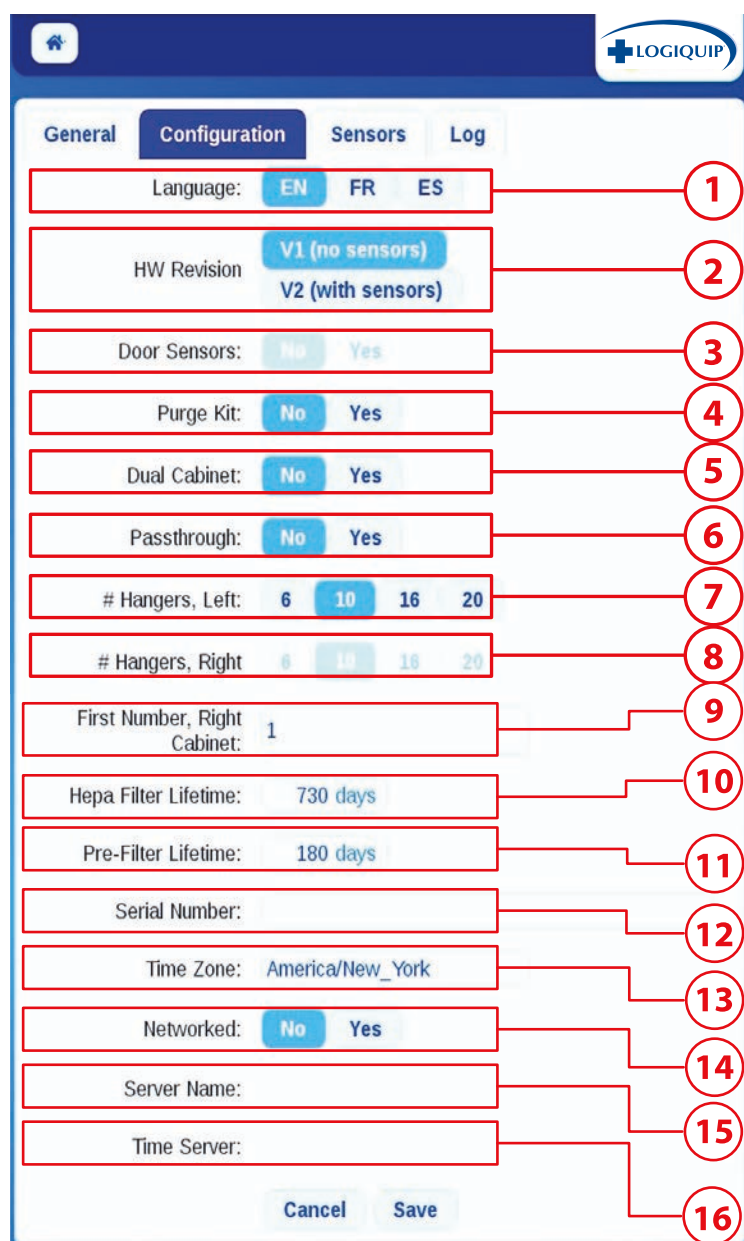
Fig. 41

## CONFIGURE ENDOTRACK TRACKING SOFTWARE SETTINGS (CONTINUED)

### CABINET CONFIGURATION SETTINGS

Set up Cabinet to Required Configuration (Fig. 42)

1. Press the Logo Icon located on the Top Right of the screen, and then enter the Service Page access code.
2. Press the **Configuration** Tab to verify that the settings are correct – if not, set them to the desired settings (see chart below at left for a description of each tab).



The screenshot shows the 'Configuration' tab of the ENDOTRACK software interface. It contains various settings for the cabinet, each with a numbered callout (1-16) pointing to it. The settings include Language, HW Revision, Door Sensors, Purge Kit, Dual Cabinet, Passthrough, # Hangers (Left and Right), First Number (Right Cabinet), HEPA Filter Lifetime, Pre-Filter Lifetime, Serial Number, Time Zone, Networked, Server Name, and Time Server. The 'Cancel' and 'Save' buttons are at the bottom.



Fig. 42

#	BUTTON	DESCRIPTION
1	Language	Change language from English (EN), French (FR) and Spanish (ES)
2	HW Revision	Change Cabinet Revision for Cabinets with and without sensors
3	Door Sensor	Turn Door sensors ON/OFF (V2 Cabinets)
4	Channel Purge Kit	Turn Channel Purge option ON/OFF
5	Dual Cabinet	Set to 'YES' for Add-On Cabinets
6	Pass-Through	Set to 'YES' for Pass-Through models
7	# Hangers, Left	Set the number of scopes for the Main Cabinet (Left)
8	# Hangers, Right	Set the number of scopes for the Add-On Cabinet (Right)
9	First Number, Right Cabinet	Set the starting number for the Add-On Cabinet
10	HEPA Filter Lifetime	Set HEPA Filter timer (days) Default: 730 Days
11	Pre-Filter Lifetime	Set Pre-Filter timer (days) Default: 180 Days
12	Serial Number	Set a 4-Digit Serial Number to access Service Page (The default Serial Number is set to '1111')
13	Time Zone	Set the Time Zone. Only Enabled if Networked is set to "Yes" [Pending Future Update]
14	Networked	Enable/Disable online connectivity [Pending Future Update]
15	Server Name	Enter Serer Name. Only Enabled if Networked is set to "Yes" [Pending Future Update]
16	Time Server	Enter Time of Server. Only Enabled if Networked is set to "Yes" [Pending Future Update]

## CONFIGURE ENDOTRACK TRACKING SOFTWARE SETTINGS (CONTINUED)


### SETTING & RESETTING HEPA & PRE-FILTER TIMERS

Go to the General Tab, and press the 'Reset the HEPA Filter' and 'Rest Pre-Filter' buttons (Fig. 43).

	Reset the HEPA Filter and Pre-Filter timers after installation to initialize.
	Reset the HEPA Filter and Pre-Filter timers after filter changes to restart countdown.

1. Go to the **General Tab**, and press the 'Reset the HEPA Filter' and 'Rest Pre-Filter' buttons.

### ADDING/REMOVING USERS & SCOPES

	There are two methods for entering new users and scopes into the software; Manually entering new Users and Scopes, and importing a digital list from another device.
---	--

### MANUALLY ADD NEW USER

1. From the Main Screen, press the Logo Icon located on the Top Right of the screen and then enter the Supervisor Page access code.
2. To add new users, press the **User Tab** to begin (Fig. 44).
3. Press the "Add New" button on the right side of the screen (Fig. 44).
4. Enter User ID under "ID" by using the keypad on the screen (Fig. 45).
5. Enter the users name under "Name" by using the keypad on the screen and then press Enter (Fig. 46).
6. The newly added User will appear on the list. Repeat steps 1-5 to add more users.

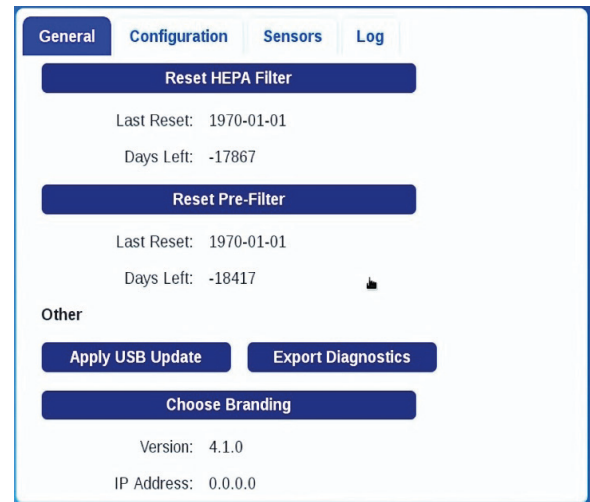


Fig. 43



Fig. 44

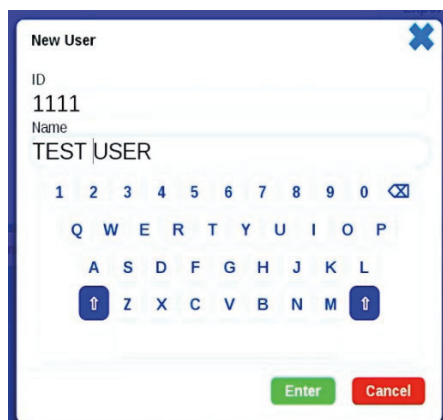


Fig. 45

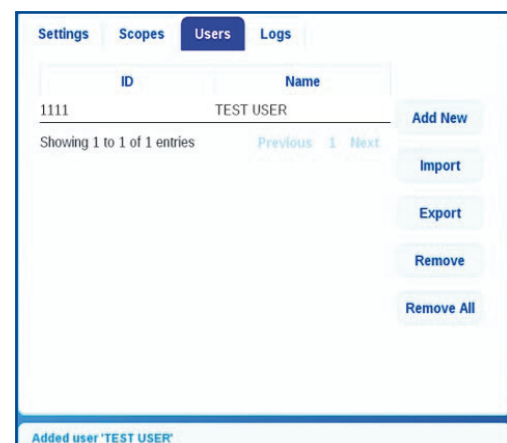


Fig. 46

## CONFIGURE ENDOTRACK TRACKING SOFTWARE SETTINGS (CONTINUED)

### MANUALLY ADD NEW SCOPE

1. To add new scopes, press the **Scopes Tab** to begin (Fig. 47).
2. Press the “Add New” button on the right side of the screen.
3. Enter Scope ID under “ID” by using the keypad on the screen (Fig. 48).
4. Enter the scope model under “Model” by using the keypad on the screen and then press Enter or scan the barcode or RFID chip (Fig. 49).
5. The newly added Scope will appear on the list.  
Repeat steps 1-4 for all necessary scopes.

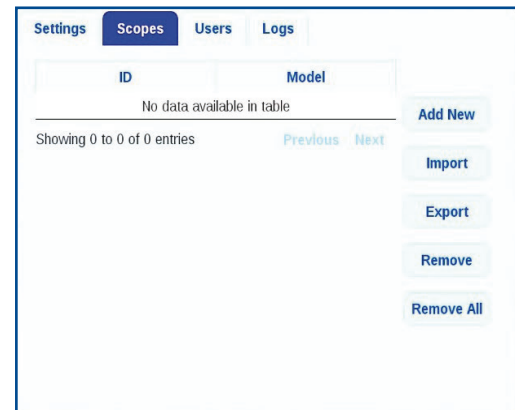


Fig. 47

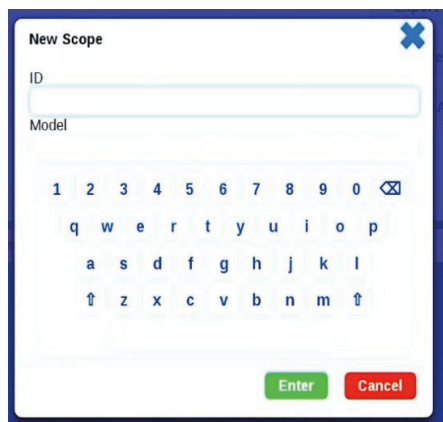


Fig. 48

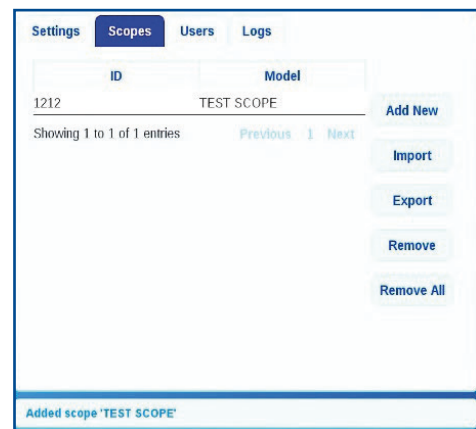


Fig. 49

### EXPORT USER & SCOPE LIST

1. Plug a USB Flash Drive (formatted to FAT32) into the USB Port.
2. Go to the **Users Tab** and press the Export button to export the Users List (Fig. 50).
3. Go to the **Scopes Tab** and press the Export button to export the Scopes List (Fig. 51).

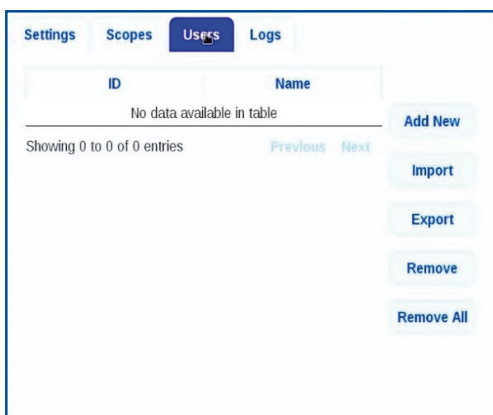


Fig. 50

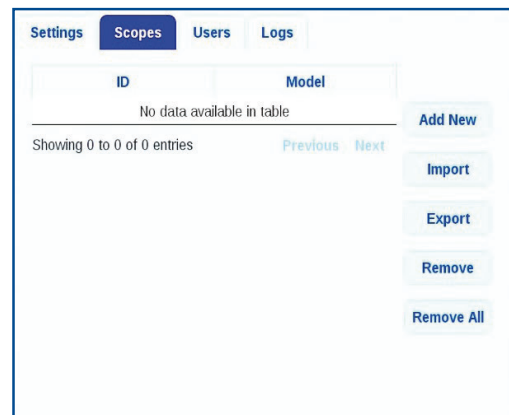


Fig. 51



## CONFIGURE ENDOTRACK TRACKING SOFTWARE SETTINGS (CONTINUED)

### IMPORTING USER & SCOPE LIST

1. From the Main Screen, press the Logo Icon located on the Top Left of the screen.
2. Enter the Access Code to access the Supervisor page.
3. Plug a USB Flash Drive (formatted to FAT32) with the required User and Scope list into the USB Port.
4. Press the **Scopes Tab** and then press the Import button to import the list of scopes (Fig. 51).
5. Press the **Users Tab** and then press the Import button to import the list of users (Fig. 52).

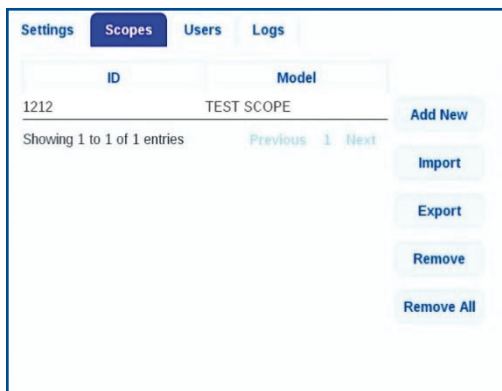


Fig. 51

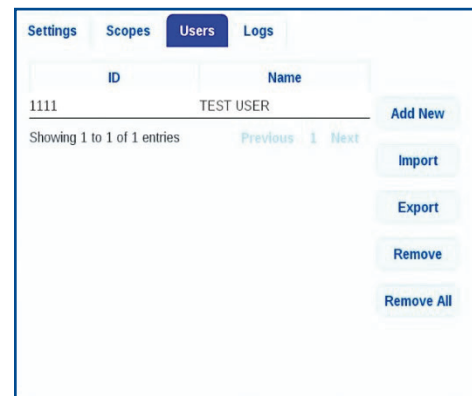


Fig. 52

### CREATING SCOPE LIST FILE FROM SCRATCH

1. Create a new text file using a text editor such as Notepad (Windows) or TextEdit (Mac) (Fig. 53).
2. Save the file as "Scope.csv" (without quotations) (Fig. 54).
3. On the first line enter the following: "Scope Type,Serial Number" and then press the Enter key.
4. Enter each Scope ID and Scope Model on a new line using the following format "ScopeModel,ScopeID". Ensure that there are no spaces after the comma.
5. Exit the text editor and save any changes made.

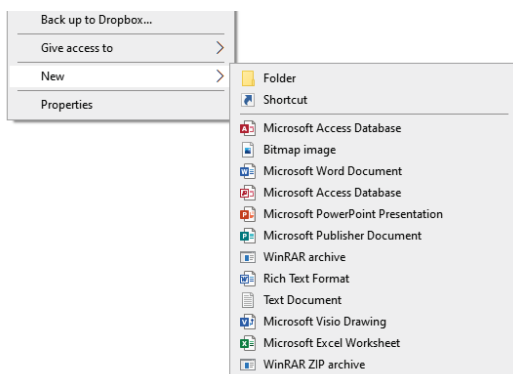


Fig. 53

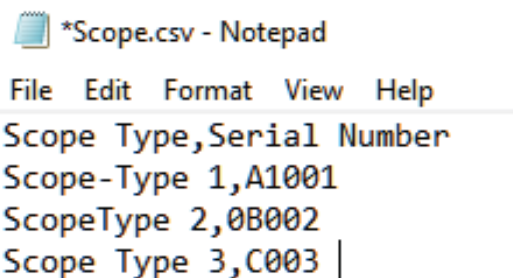


Fig. 54

## CONFIGURE ENDOTRACK TRACKING SOFTWARE SETTINGS (CONTINUED)

### CREATING A USER LIST FILE FROM SCRATCH

1. Create a new text file using a text editor such as Notepad (Windows) or TextEdit (Mac) (Fig. 55).
2. Save the file as "Scope.csv" (without quotations) (Fig. 56).
3. On the first line enter the following: "Scope Type,Serial Number" and then press the Enter key.
4. Enter each Scope ID and Scope Model on a new line using the following format "ScopeModel,ScopeID". Ensure that there are no spaces after the comma.
5. Exit the text editor and save any changes made.

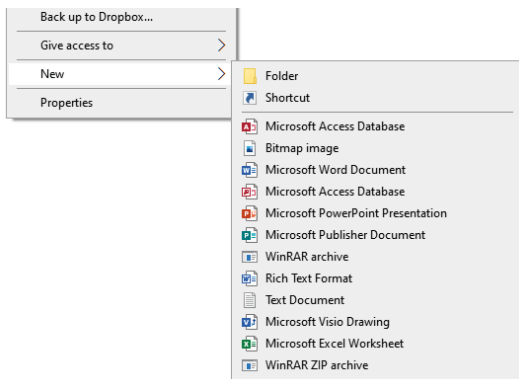


Fig. 55

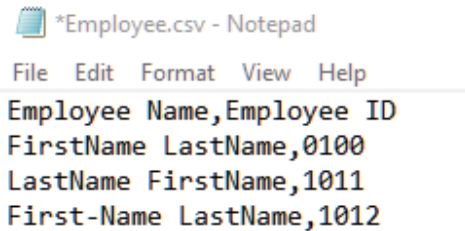


Fig. 56

### FORMATTING A USB FLASH DRIVE TO FAT32

#### Format USB to FAT32



Formatting a non-FAT32 USB Drive will erase all files saved on the USB. Save all existing files onto another device prior to formatting.

1. Plug a USB Flash Drive into your devices USB port.
2. Once the USB has been recognized, right click on the USB drive, and then click on 'Format' (Fig. 57)
3. Change the "File System" to FAT32 and then press Start to format the USB to FAT32 (Fig. 58).
4. Copy/Cut the Employee.csv and Scope.csv files to the formatted USB (Fig. 59), and then safely Eject the USB (Fig. 60).

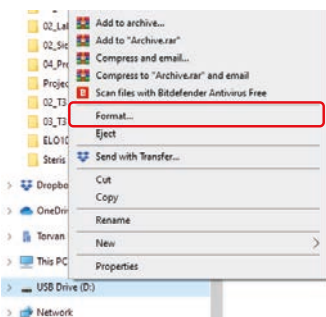


Fig. 57

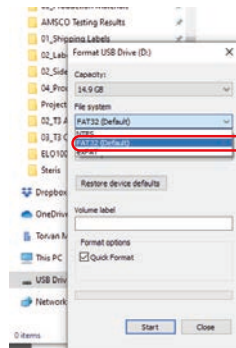


Fig. 58

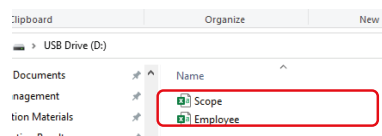


Fig. 59

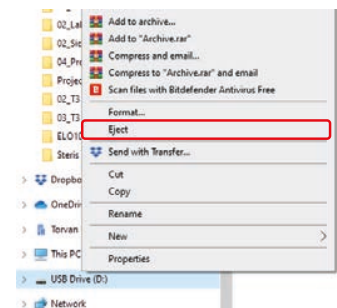


Fig. 60



## CONFIGURE ENDOTRACK TRACKING SOFTWARE SETTINGS (CONTINUED)

### REMOVE ALL USERS

1. From the Main Screen, press the Logo Icon located on the Top Left of the screen.
2. Enter the Access Code to access the Supervisor page.
3. Press the **Users Tab** and then press the 'Remove All' button (Fig. 61).
4. Press **Remove All** to remove all users (Fig. 62)

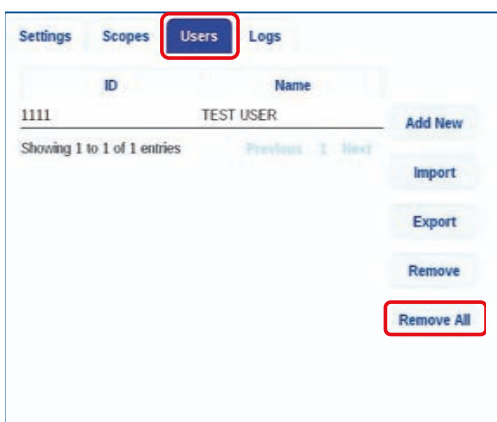


Fig. 61

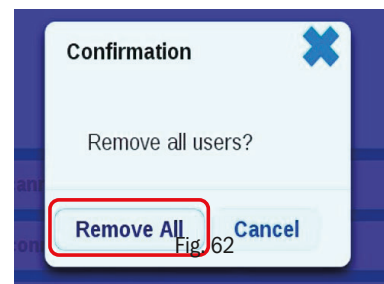


Fig. 62

### REMOVE ALL SCOPES

1. From the Main Screen, press the Logo Icon located on the Top Left of the screen.
2. Enter the Access Code to access the Supervisor page.
3. Press the **Scopes Tab** and then press the 'Remove All' button (Fig. 63).
4. Press **Remove All** to remove all scopes (Fig. 64).

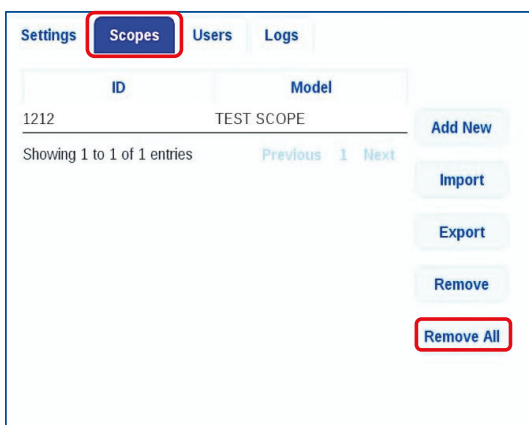


Fig. 63

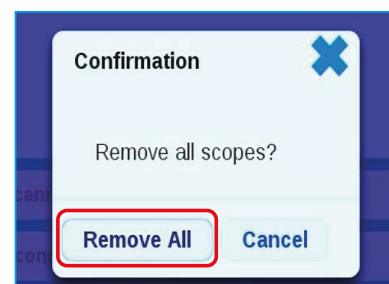


Fig. 64

## CONFIGURE ENDOTRACK TRACKING SOFTWARE SETTINGS (CONTINUED)

### REMOVING A USER AND/OR A SCOPE

#### REMOVE USER AND/OR SCOPE

1. From the Main Screen, press the **Logo Icon** located on the Top Left of the screen.
2. Enter the Access Code to access the Supervisor page.
3. Press the **Users Tab** and then select the user that you would like to remove from the list.
4. Press the “Remove” button to remove the individual user from the list.
5. Press the **Scopes Tab** and then select the scope needs to be removed from the list.
6. Press the “Remove” button to remove the individual scope from the list.



A confirmation box will appear if the “Remove All” button has been pressed accidentally.

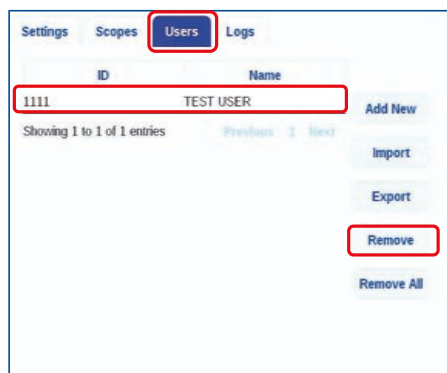


Fig. 65

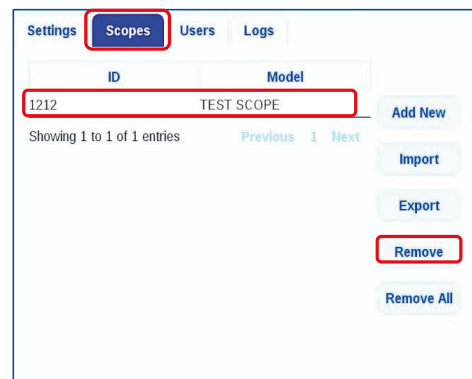


Fig. 66



#### WARNING:

Prior to Using Your Drying Cabinet you MUST CLEAN AND SANITIZE. Please refer to the Dri-Stor Use & Care Guide pages 14-18 for detailed cleaning instructions.

## TROUBLESHOOTING INFORMATION (CONTINUED)

### ADJUSTING HINGE

The leveling of a Cabinet can cause a variety of issues. The issues affect the door locks, door operation, and Cabinet functionality. Below is a list of the frequent issues that are caused because Cabinet is not being level.

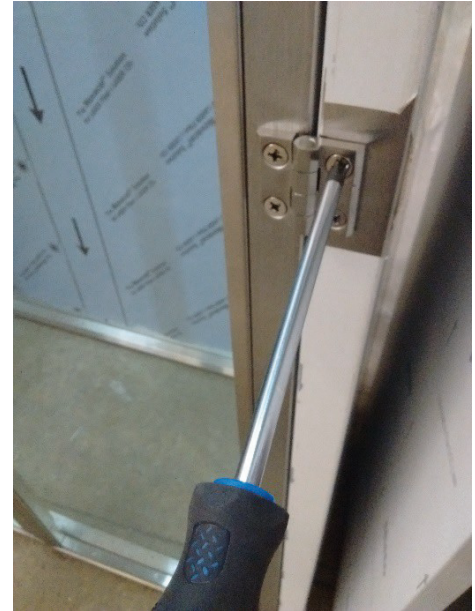
This applies to the Storage Cabinet. Minor adjustments can be made to the Cabinet hinges to address door and door lock function.

TOOLS REQUIRED: Phillips screwdriver

1. Partially unscrew hinge needing adjustment using a Phillips screwdriver.
2. Manually adjust hinge to left or right.
3. When hinge is in desired position re-tighten all screws.

NOTE: To adjust door upward or downward, partially unscrew all three hinges and re-tighten when the hinge is in the desired location.

NOTE: In some instances, use of a spacer may be recommended. The spacer should be a flat washer that will fit a ¼" diameter bolt.



### HARDWARE VISUAL TROUBLESHOOTING IDENTIFICATION TABLE

IDENTIFY TROUBLE	TROUBLE SHOOTING STEPS
Door does not fully close at top and bottom, or has difficult time closing.	<ul style="list-style-type: none"> <li>• Increase gap between door and door frame at bottom most hinge.</li> <li>• Insert spacers behind all hinges to move door away from door frame.</li> </ul>
Rubbing between bottom of door near hinge and bottom of door frame.	
Top of right door is sticking out.	<ul style="list-style-type: none"> <li>• Raise back left Cabinet leg.</li> <li>• Lower front left Cabinet leg.</li> <li>• Raise front right Cabinet leg.</li> <li>• Lower back right Cabinet leg.</li> </ul>
Top of left door is too high or is rubbing against top of door frame.	
Top of right door is too low.	
Bottom of the right door is sticking out.	
Top of right door is too high.	<ul style="list-style-type: none"> <li>• Lower front right Cabinet leg.</li> <li>• Raise back right Cabinet leg.</li> <li>• Lower back right Cabinet leg.</li> <li>• Raise front left Cabinet leg.</li> </ul>
Top of the left door is too low.	
Scopes are touching back of Cabinet or each other.	
Doors are flat against door frame, but door tops are not aligned.	<ul style="list-style-type: none"> <li>• Adjust both front/back legs depending on direction Cabinet needs to be leveled.</li> <li>• Rotate each leg an equal amount to maintain Cabinet level.</li> </ul>
Entire Cabinet is leaning to left/right.	<ul style="list-style-type: none"> <li>• Verify Cabinet is leveled correctly left/right.</li> <li>• Adjust door hinges left/right.</li> </ul>
Level tool shows Cabinet is leaning to left/right.	
Scopes are touching sides of Cabinet or each other.	
Entire Cabinet is leaning forward or backward.	
Leveling tool shows Cabinet is leaning forward or backward.	
Doors are rubbing against each other when opening or closing the door.	<ul style="list-style-type: none"> <li>• Move doors apart by adjusting one or more door hinges. Start with middle hinge first.</li> </ul>

## TROUBLESHOOTING INFORMATION (CONTINUED)

### TROUBLESHOOTING HEPA CABINET LED LIGHT NOTIFICATIONS

Users/supervisors may use the following information and steps within the scope of approved/operating instructions only. Contact LogiQuip Customer Support prior to action outside the scope of operating instruction in all cases.

NOTIFICATION	INTENDED COMMUNICATION	TROUBLESHOOTING STEPS
Solid Amber LED Light	HEPA Pre-filter is due to be replaced within scheduled maintenance	<ul style="list-style-type: none"> <li>Schedule replacement HEPA pre-filter</li> <li>Follow Control Instruction to Reset Timer</li> </ul>
Solid Red LED Light	HEPA filter is due to be replaced within scheduled maintenance.	<ul style="list-style-type: none"> <li>Schedule replacement of HEPA filter.</li> <li>Follow Control Instruction to Reset Timer</li> </ul>
Flashing Amber LED Light	Door sensor (D1 or D2) detects door open for longer than 45 seconds.	<ul style="list-style-type: none"> <li>Close Cabinet door</li> <li>Adjust door sensor bracket as needed to align micro-switch with door</li> <li>Follow instruction to level Cabinet</li> <li>Verify door sensor connection at control box</li> <li>Replace door switch</li> </ul>
Flashing Red LED Light	Main airflow sensor detects little or no airflow.	<ul style="list-style-type: none"> <li>Remove any obstruction or impediment to air flow between component Cabinet and storage Cabinet</li> <li>Verify main HEPA filter fan assembly switch is turned on in bottom of component Cabinet</li> <li>With main HEPA filter fan assembly turned on, verify voltage at fan</li> <li>If voltage present and fan is still not turning, replace HEPA filter fan</li> <li>Verify connection of airflow sensor to control box.</li> <li>Verify airflow between component Cabinet and storage Cabinet</li> <li>If airflow is present, replace sensor</li> </ul>

NOTIFICATION	INTENDED COMMUNICATION	TROUBLESHOOTING STEPS
HEPA Filter Expiring Soon	There is 14 days or less to HEPA filter counter.	<ul style="list-style-type: none"> <li>Schedule replacement of HEPA filter.</li> </ul>
HEPA Filter Expired	HEPA filter needs replaced.	
Pre-Filter Expiring Doon	There is 14 days or less to the pre-filter counter.	<ul style="list-style-type: none"> <li>Schedule replacement of HEPA pre-filter.</li> </ul>
Pre-Filter Expired	HEPA pre-filter needs replaced.	
Invalid Serial Number	Software does not have a valid serial number set up in service mode.	<ul style="list-style-type: none"> <li>Input correct serial number in service mode.</li> <li>CPU issue. Replace CPU.</li> </ul>
Communications Hardware Not Connected	CPU does not recognize communication from GPIO board for longer than five seconds.	<ul style="list-style-type: none"> <li>USB connection issue. Repair USB connection.</li> <li>Board failure. Replace board.</li> <li>CPU failure. Replace CPU.</li> </ul>
Relay Module Not Connected	CPU does not recognize communication from relay board for longer than five seconds.	
Input Scanner Not Connected	CPU loses communication with scanner.	<ul style="list-style-type: none"> <li>USB connection issue. Repair USB connection.</li> <li>Barcode scanner failure. Replace barcode scanner.</li> <li>CPU failure. Replace CPU.</li> </ul>
Secondary Input Scanner Not Connected	CPU loses communication with a secondary scanner.	
Door #1 Alarm	Door switch (D1) detects door open for longer than 45 seconds on main storage Cabinet.	<ul style="list-style-type: none"> <li>Close Cabinet door.</li> <li>Verify door switch is plugged into control.</li> <li>Verify Cabinet is level. Adjust level.</li> </ul>

## TROUBLESHOOTING HEPA CABINET LED LIGHT NOTIFICATIONS (CONTINUED)

Users/supervisors may use the following information and steps within the scope of approved/operating instructions only. Contact LogiQuip Customer Support prior to action outside the scope of operating instruction in all cases.

NOTIFICATION	INTENDED COMMUNICATION	TROUBLE SHOOTING STEPS
Door #2 Alarm	Door switch (D2) detects door open for longer than 45 seconds on Add-On storage Cabinet.	<ul style="list-style-type: none"> <li>Door switch out of alignment. Adjust door switch with shims.</li> <li>Door switch failure. Replace door switch.</li> </ul>
Left Fan Sensor Low	Fan airflow sensor (F1) reading average value drops to under 300 to main storage Cabinet.	<ul style="list-style-type: none"> <li>Turn HEPA filter fan power switch ON.</li> <li>Turn power bar ON.</li> <li>Replace 5A Cabinet fuse.</li> <li>Repair wire/connection.</li> <li>Replace HEPA filter/pre-filter or VOC filter.</li> <li>Replace HEPA filter fan.</li> <li>Inspect hose/connections for leaks. Replace hose/secure connections as needed.</li> <li>Verify connection of airflow sensor to F1 to control box.</li> <li>Replace sensor as needed</li> </ul>
Right Fan Sensor Low	Fan airflow sensor (F2) reading average value drops to under 300 to Add-On storage Cabinet.	
This Page is Not Working	CPU has an internal communication error.	<ul style="list-style-type: none"> <li>Hold power button on CPU down until reset option appears on touchscreen.</li> <li>Hard reset CPU by holding down power button on CPU unit CPU turns off.</li> <li>Press button again to power CPU.</li> <li>If this fails to correct the issue, call LogiQuip Customer Support.</li> </ul>
Left Channel Purge 1 Sensor Low	Channel Purge sensor (PL1) does not detect pressure or a change in pressure when Channel Purge Pump 1 is activated.	<ul style="list-style-type: none"> <li>Verify Tubing is connected to Channel Purge pump and sensor.</li> <li>Verify Channel Purge Tubing is not kinked or damaged.</li> <li>Check Channel Purge Tubing and air manifolds for air leaks.</li> <li>Verify operation of Channel Purge pump.</li> <li>Sensor failure. Replace sensor.</li> </ul>
Left Channel Purge 2 Sensor Low	Channel Purge sensor (PL2) does not detect pressure or a change in pressure when Channel Purge Pump 2 to main storage Cabinet is activated.	
Right Channel Purge 1 Sensor Low	Channel Purge sensor (PR1) does not detect pressure or a change in pressure when Channel Purge Pump 1 to Add-On storage Cabinet is activated.	
Right Channel Purge 2 Sensor Low	Channel Purge sensor (PR2) does not detect pressure or a change in pressure when Channel Purge Pump 2 to Add-On storage Cabinet is activated.	
Network Server Error	Cabinet is unable to connect to server.	<ul style="list-style-type: none"> <li>Verify Ethernet cable is connected to Cabinet and facility.</li> <li>Verify Ethernet cable is plugged into CPU.</li> <li>Verify with facility Ethernet port is active.</li> </ul>
Scope Import File Not Found	CPU does not recognize a valid scope file to import.	<ul style="list-style-type: none"> <li>Verify scope file is saved on USB as Scope.csv</li> <li>Verify Scope.csv file is saved on USB and not saved into a folder on USB.</li> </ul>
Scope CSV File Could Not Be Imported	CPU recognizes CSV file but there is an issue with the file.	<ul style="list-style-type: none"> <li>Scope.csv file is corrupted.</li> <li>Copy and paste scope csv file into a new file and save as Scope.csv.</li> </ul>
Scope File Failed To Export	Scope file fails to export from CPU.	<ul style="list-style-type: none"> <li>Insert a USB into available USB port.</li> <li>Use a different USB port.</li> <li>Use a different USB.</li> </ul>
User Import File Not Found	CPU does not recognize a valid user file to import.	<ul style="list-style-type: none"> <li>Verify user file is saved on USB as Employee.csv.</li> <li>Verify Employee.csv file is saved on USB and not saved into a folder on USB.</li> <li>Employee.csv file is corrupted. Copy and paste user CSV file into a new file and save as Employee.csv.</li> </ul>
User Csv File Could Not Be Imported.	CPU recognizes CSV file but there is an issue with the file.	<ul style="list-style-type: none"> <li>Employee.csv file is corrupted. Copy and paste user CSV file into a new file and save as Employee. csv.</li> </ul>
User File Failed To Export.	User file fails to export from CPU.	<ul style="list-style-type: none"> <li>Insert a USB into available USB port.</li> <li>Use a different USB port.</li> <li>Use a different USB.</li> </ul>

## TROUBLESHOOTING HEPA CABINET LED LIGHT NOTIFICATIONS (CONTINUED)

Users/supervisors may use the following information and steps within the scope of approved/operating instructions only. Contact LogiQuip Customer Support prior to action outside the scope of operating instruction in all cases.

NOTIFICATION	INTENDED COMMUNICATION	TROUBLE SHOOTING STEPS
Unknown Scope Scan '%s'	A scope barcode that is not in Cabinet library is scanned.	<ul style="list-style-type: none"> <li>Manually enter scope barcode number into Cabinet scope library.</li> <li>Review scope library and verify scope is listed. If scope is not listed, load scope barcode scope library.</li> </ul>
Unknown Scope Entry '%s'	A scope ID that is not in Cabinet library is manually entered.	<ul style="list-style-type: none"> <li>Scan scope barcode.</li> <li>Review scope library and verify scope is listed. If scope is not listed, load scope barcode into Cabinet library.</li> </ul>
Unable To Add New Scope: No Scan Code	Supervisor is trying to add a new scope and does not enter a valid scope ID.	<ul style="list-style-type: none"> <li>Enter a scope with valid scope ID.</li> </ul>
Unable To Add New Scope: Scan Code In Use	Supervisor is trying to add a new scope and scope ID is already in Cabinet library.	<ul style="list-style-type: none"> <li>Change scope ID to an unused ID.</li> </ul>
Unable To Add New User: No Scan Code	Supervisor is trying to add a new user and does not enter a valid user ID.	<ul style="list-style-type: none"> <li>Enter a user with a valid User ID.</li> </ul>
Unable To Add New User: Scan Code In Use	Supervisor is trying to add a new user and user ID is already in Cabinet library.	<ul style="list-style-type: none"> <li>Change User ID to an unused ID.</li> </ul>
Unknown User Scan	A user barcode that is not in Cabinet library is scanned.	<ul style="list-style-type: none"> <li>Manually enter user ID.</li> <li>Review user library and verify user ID is listed. If user is not listed, load user ID into Cabinet library.</li> </ul>
Unknown User Entry	A user ID that is not in Cabinet library is manually entered.	<ul style="list-style-type: none"> <li>Scan user ID.</li> <li>Review scope library and verify user ID is listed. If user ID is not listed, load user ID into Cabinet library.</li> </ul>
Activity File Failed To Export	Activity log fails to export from CPU.	<ul style="list-style-type: none"> <li>Insert USB into available USB port.</li> <li>Use a different USB port.</li> <li>Use a different USB.</li> </ul>
No Activity To Export	No new activities have been recorded since last report.	<ul style="list-style-type: none"> <li>Perform new activity for the logs.</li> <li>CPU issue. Reboot CPU.</li> </ul>
Export Task Already Running	Export button is pressed while Cabinet is exporting a file.	<ul style="list-style-type: none"> <li>Allow export to finish.</li> </ul>



### LIMITED 5-YEAR WARRANTY

LogiQuip products are covered by a Limited 5-Year Warranty from date of receipt against defect in materials or workmanship under normal use and service, excluding Electronic components, Cart Covers, Custom Products, LogiCell Tambour Doors, Label Holders, and Casters. During this period, LogiQuip will, in its sole discretion, repair defects in materials or workmanship that existed when the product was received or replace the product. Visit [LogiQuip.com/Warranty](https://www.logiquip.com/Warranty) for more details.

### CUSTOMER SERVICE

If you have any problems with your Dri-Stor Cabinet, please contact our Customer Service Department at:

PHONE: **(800) 665-3760**

EMAIL: [CustomerSupport@LogiQuip.net](mailto:CustomerSupport@LogiQuip.net)

### ABOUT US

Healthcare exclusive since 1992, LogiQuip's Inventory Management Solutions are designed for Healthcare Professionals looking for a better way to manage supply chain tasks. With Expert Advice, Innovative Solutions, and 360 Service that doesn't stop after the sale, LogiQuip's sole purpose is to ensure Healthcare Professionals have the supplies they need when they need them. Partnering with you to design and implement the right solutions, we give you time back to focus on what's important; Patient Care.