Retrofitting Harloff Scope Cabinets with Dri-Scope Aid®

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HARLOFF
CLINICAL STORAGE BY CAPSA HEALTHCARE

To view more information about Harloff scope cabinets, visit us online at
https://www.harloff.com/product-category/scope-cabinets/

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Preparation for Install

- Clean out the scope cabinet
  Remove power (if applicable) and completely empty the cabinet. Remove ALL endoscopes, fittings, etc.

- Prepare the required tools
  - Socket drive (w/ 1/4", 5/16" sockets)
  - Allen wrench or hex driver (5/32")
  - Phillips screwdriver (#2 and #3) or a power drill/driver

- Prepare the applicable mounting hardware kit
  - Pump/Manifold Mounting Kit 401998-326
  - Tubing Strips Mounting Kit 401998-327
  - Power Supply Mounting Kit 401998-328

PLEASE NOTE: When securing electrical cables, make sure to leave some slack when pulling and coiling. Too much tension will, over time, pull securements away from the scope cabinet wall.

IMPORTANT: Keep all protective caps on the components until you are ready for final hook-up to the tubing in order to prevent debris from inadvertently falling into the modules.

Pump Installation

1. Every Harloff scope cabinet is equipped with a pump mounting plate installed in the top left inside corner of your cabinet. Locate this pump mounting plate (shown to the right) and then locate the pre-drilled mounting hole locations installed into this plate.

2. Screws (1/4 - 20 x 1/2) are already included in each mounting hole and can be unscrewed and used for pump installation. Once located, use a Phillips screwdriver (#3) or a power drill/driver to remove the screws from the four pump mounting plate locations.

2. Lift your 1840 Series Ceiling Pump from Dri-Scope Aid® into the cabinet with the interface panel facing forward and the electrical connections facing to the right. Line up the pump's mounting brackets with the pre-drilled screw holes.

3. Using a Phillips screwdriver (#3) or a power drill/driver, attach the pump with the provided screws into all four corners until the pump is loosely supported (shown to the right).

4. Tighten each of the fours screws until hand tight.

Manifold Verification

IMPORTANT: Prior to installation, you will want to verify that the manifold you received is the correct model for your scope cabinet.

• SC8024 (24” wide) & SC8030 (30” wide) scope cabinet models will require the 23 Series Manifold from Dri-Scope Aid® (measuring 23” wide), which come with either a five or ten port system.

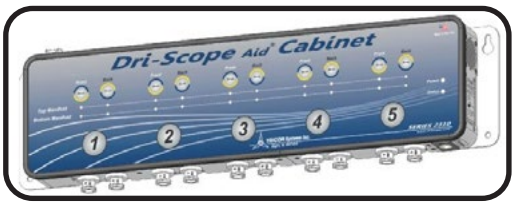
Verify that the amount of ports on your system matches the capacity of scopes you wish to dry in your cabinet at one time.

• SC8036 (36” wide) & SC8044 (44” wide) scope cabinet models will require the 33 Series Manifold from Dri-Scope Aid® (measuring 33” wide), which come with either an eight or sixteen port system.

Verify that the amount of ports on your system matches the capacity of scopes you wish to dry in your cabinet at one time.

If you purchased a single manifold system, follow the installation instructions only for the top manifold. However most Dri-Scope Aid® installations include two manifolds, a top mounted manifold and a bottom mounted manifold.

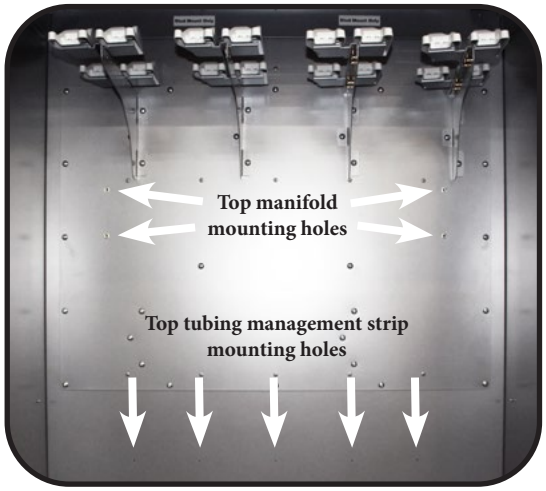
23 Series Manifold with five ports



23 Series Manifold with ten ports

33 Series Manifold with eight ports

33 Series Manifold with sixteen ports



Manifold Installation

1. Locate the pre-drilled mounting hole locations installed into the rear of your scope cabinet. There are four holes drilled below the scope holders, designed for the top manifold, and four holes drilled below the scope guides (cord management plate), designed for the bottom manifold. For the tubing management strips, there are five holes drilled below the top manifold location and five holes drilled below the bottom manifold location.

2. Screws are already included in the rear wall, which can be unscrewed and used for installation. Each manifold is mounted via four (#3) screws (eight total) and each cord management plate is mounted via either three or five (#2) sheet metal screws depending on the width of your cabinet. Once located, use a Phillips screwdriver or a power drill/driver to remove the screws from the four top manifold locations, the four bottom manifold locations, the top tubing management strip locations and the bottom tubing management strip locations.

3. There is a sticker on the top manifold and bottom manifold identifying them. Locate both stickers, then set aside the bottom manifold for now.

4. Line up the top manifold mounting brackets with the pre-drilled screw holes. Make sure that the manifold has the correct side up (text readable, pump outlets on the bottom).

5. Using a Phillips screwdriver or a power drill/driver, attach the manifold with the provided (#3) screws into all four corners until the manifold is loosely supported.

6. Tighten each of the fours screws until hand tight.

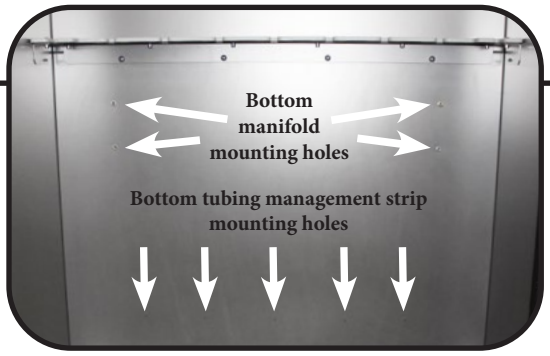
7. Repeat this process with the bottom manifold.

8. The tubing management strips are interchangeable but should be mounted with the tubing notches oriented at the top. Begin with the top mounting location by lining up the mounting holes of one of the tubing management strips over the pre-drilled screw holes.

9. Using a Phillips screwdriver or a power drill/driver, attach the tubing management strip with the provided (#2) sheet metal screws until all mounting holes are used. We recommend starting with the middle mounting hole and working your way out. Tighten each screw.

10. Repeat this process with the bottom tubing management strip.

11. Once installation of the pump, manifold(s) and tubing management strips is complete, completely clean the inside of the cabinet before proceeding.



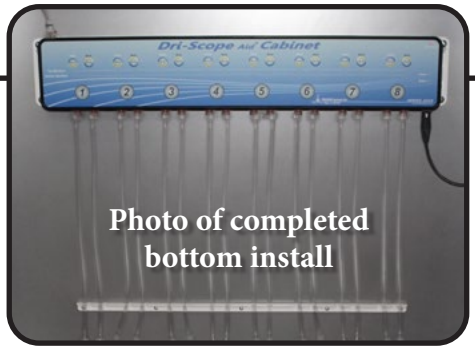
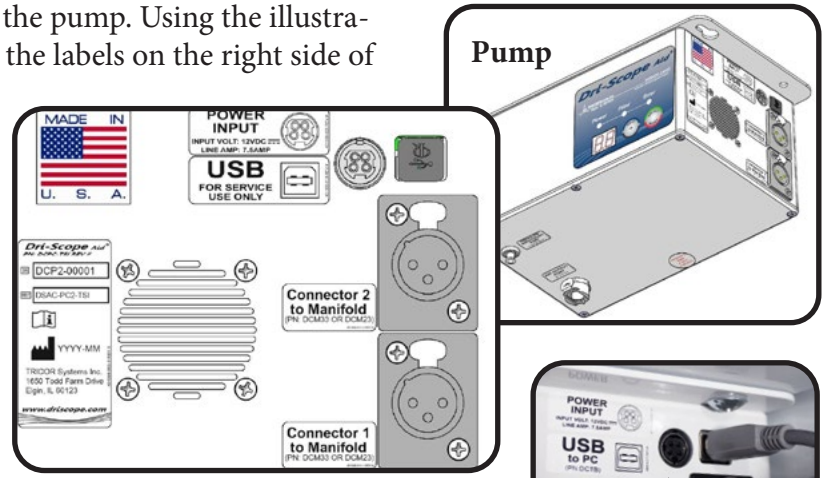


Photo of completed bottom install

Electrical Connections

1. Electrical power runs through the pump. Using the illustrations to the right, locate and find the labels on the right side of the pump for the following connection points:

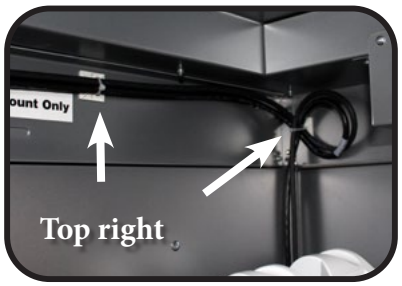
- Power Input (this delivers power to the pump)
- Connector 1 to Manifold (this delivers power to the top manifold)
- Connector 2 to Manifold (this delivers power to the bottom manifold)



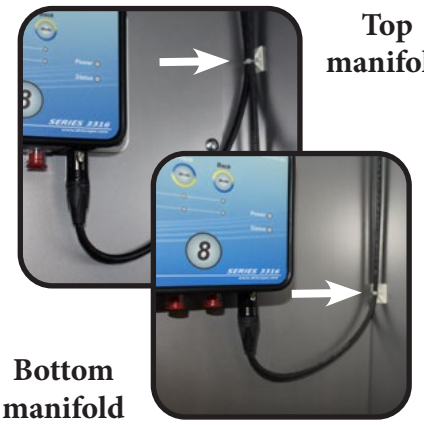
2. From the outside of the cabinet, thread the power supply output cord through the eyelet (shown to the right) located at the inside top rear of the cabinet. For some models, this rear eyelet may need knocked out of the rear wall before use. Then plug this cord into the "Power Input" connector on the pump. The other end of this cord should be plugged into a wall outlet ONLY AFTER all other cables are connected and the cabinet is ready to begin service.

Power input and cord

3. Two interface cables of different lengths are included with your Dri-Scope Aid® system. Connect the shorter cable to the "Connector 1 to Manifold" plugin located on the pump. Connect the other end into the top manifold. For both manifolds, the plugin is located on the manifold bottom on the right side.



4. Connect the longer interface cable into the "Connector 2 to Manifold" plugin located on the pump. Connect the other end into the plugin on the bottom manifold.



Top manifold

Bottom manifold

5. You will need to secure all cables to prevent them from interfering with the scope drying process. Using the adhesive backed tie-mount and cable ties, neatly secure any dangling cords in the manner of your preference. Our recommended cord setup is shown in the images to the right.

Tubing and Filter Installation

HEPA filter

Flamingo Tubing

1. Your retrofitting package includes the following components:

- HEPA air filter
- Flamingo tubing (with a "Y" split in it)
- Standard Cetacea tubing (with plastic screws on both ends)
- Cetacea "F" tubing (with a plastic screw on only one end)

Begin by removing all of these items from their packaging.

2. Locate the "Air Output Port" on the pump and insert the top of the HEPA air filter inside it. It should click securely into the port without requiring force.

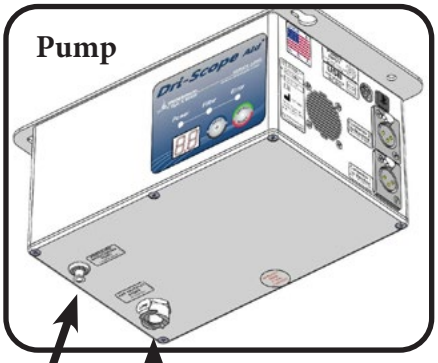
Standard Cetacea Tubing

Cetacea "F" Tubing

3. Insert the top of the Flamingo tubing (above the "Y" split) into the bottom of the HEPA air filter. It should also click securely into the filter without requiring force.

4. Locate the small tube near the top of the Flamingo tubing (above the "Y" split). Screw the end of this tube into the "Pressure Monitoring Port" on the bottom of the pump.

5. Locate the "Air Input Port" on the top manifold, located on the top left. Insert the short end of the "Y" split of the Flamingo tubing into this port. It should also click securely into the filter without requiring force.



6. Locate the "Air Input Port" on the bottom manifold. Thread the the longer end of the Flamingo tubing through the corner notch in the cord management plate, then insert it into the port in the bottom manifold. The Flamingo tubing should be fully attached now.

7. Remove the red protective caps from the bottom ports of both the top and bottom manifolds.

8. Attach the standard Cetacea tubing to any bottom port of the top manifold, by screwing the end of the tubing into the manifold until hand tight. Repeat this for each top manifold port.

9. Attach the Cetacea "F" tubing to any bottom port of the bottom manifold, by screwing the end of the tubing into the manifold until hand tight. Repeat this for each bottom manifold port.

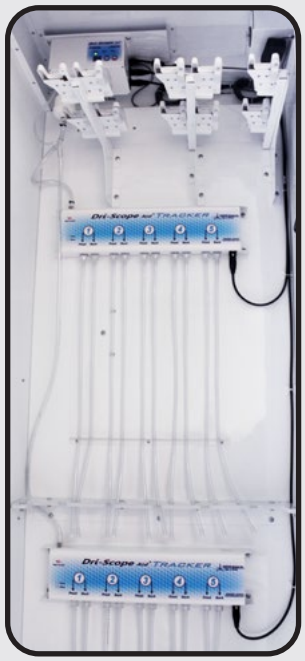
10. Secure all Cetacea tubing by threading them through notches in the tubing management strips.

Different endoscopes use different types of single-use connectors. Please reach out to Dri-Scope Aid® at techsupport@driscope.com or 847-742-5542 to receive a quotation for the connectors or to answer any questions about the install/in-service/preventative maintenance.

Dri-Scope Aid® Cabinet

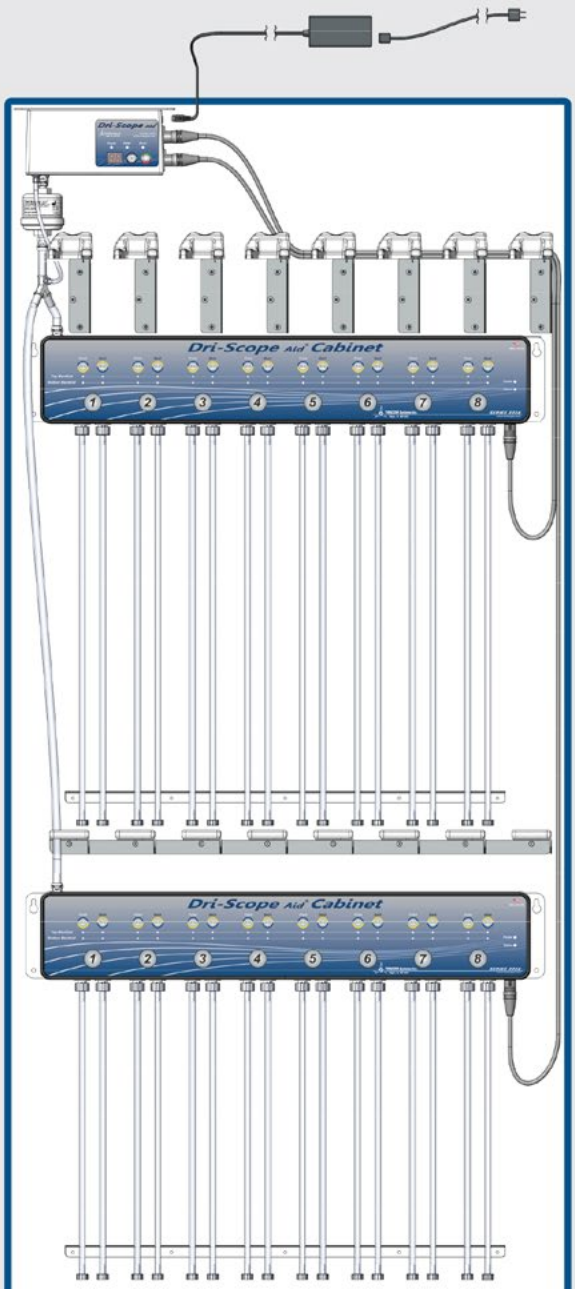
Design Features

- Designed for ceiling mount applications
- Dries up to 16 endoscopes
- Adaptable to fit most cabinets



Finished upgrade for a 10 scope cabinet

Not to scale. Generic cabinet layout shown.



Typical Installation

Components Shown Include			QTY	-F QTY
Item #	Part Number	Description		
#1	DCPC-	Series 1840 Ceiling-Mount Pump	1	1
#1	DCRC-	Series 1840 Ceiling-Mount Regulator	1	1
#2	DCM3316-TSI	Series 3316 Manifold	2	2
#3	401998-146	Medical Power Supply + 6' AC Cord	1	1
#4	401998-147-12	Optional 12' AC Cord	0	0
#5	401998-235-70	70" Manifold Interface Cable	1	1
#5	401998-235-112	112" Manifold Interface Cable	1	1
#6	401998-110	Series 33 Tubing Management Strip	2	2
#7	401998-303	HEPA Filter, Short	1	1
#8	DS-300-49-14	Flamingo "2" Tubing	1	1
#9 Top	DS-325-25-8	Cetacea Tubing Set of 8, 25" Length	2	2
#9 Bottom	DS-325-18-8	Cetacea Tubing Set of 8, 18" Length	2	0
#9 Bottom	DS-335-18-8	Cetacea "F" Tubing Set of 8, 18" Length	0	2