4. Installation Instructions

To open the wash chamber door, plug in the unit, turn it on and press the unlock symbol.

Alternatively, remove the screw in the kickplate and pull the ring. See section 5.28.

Tools and supplies required for installation:
- Slot screwdriver
- Channel locks

Specifications:

Voltage:	208 – 240 V
Frequency:	60 Hz
Rated load:	2.5 kW
Circuit breaker:	15 A per phase

Height:	850 mm / 33.5”
Width:	600 mm / 23.75”
Depth:	600 mm / 23.75”
Depth with door open:	1200 mm / 47”
Weight:	80 kg / 176 lbs
Max. Running Noise: 78 dBA	

Utility Hook-ups

Hose / Cord	Length / Diameter	Max. Distance Distance from inlet / drain	Water Pressure	Shut-off valve
Hot Inlet	1.9 m / 6 ft. 3/4”	1.5 m / 5 ft.	1-10 bar / 14.5-145 psi	Yes
Cold Inlet	1.9 m / 6 ft. 3/4”	1.5 m / 5 ft.	1-10 bar / 14.5-145 psi	Yes
R/O Inlet	1.9 m / 6 ft. 3/4”	1.5 m / 5 ft.	1-10 bar / 14.5-145 psi	Yes
Drain	1.5 m / 5 ft. 3/4”	—	—	—
Electrical	1.8 m AWG 14-3	—	—	—

Levelling the HYDRIM:

The unit is standing on three supports: rollers (wheels) at the back and two legs at the front.

1. Remove the front kickplate. Push the HYDR*IM* into place while lifting the strap at the front to allow the unit to roll on the rollers.
2. Adjust the front legs as required until the HYDR*IM* is level.
3. The rear two legs are used only if the floor is uneven or cannot provide support to the rollers.
4. Tuck the strap under the machine before replacing the kickplate, so as not to interfere with the exhaust air vents.

Installation:

Installation should be undertaken by a SciCan approved technician. The use of an unapproved installer may invalidate the warranty.

If the HYDR*IM* is installed in a Sterilization Center, the manufacturer of the Sterilization Center should allow a 10mm / 1/2” space at the top, back and both sides of the HYDR*IM*. This will facilitate installation, and service access to the HYDR*IM*.

Do not move the HYDR*IM* into place by maneuvering the open wash chamber door. This may cause to door to become misaligned and leak.

During installation, all consumables should have been added to the machine as appropriate. It is important that this be done before starting the machine.

For safety reasons, do not install the HYDR*IM* without the top cover.

Rear of Unit

4. Installation Instructions

Connecting the water inlet hoses:

Connect the hot and cold water inlet hoses to the hot and cold water supply.

Drain requirements:

Connect the drain hose to the drain outlet. The drain hose can be attached to existing drain lines using a 3.5 cm / 1.5” or larger standpipe / P-trap combination. If the hose is connected directly to the drain line, fittings and adapters should not reduce water flow. The drain hose should be attached to the main drain at a point no more than 1 metre /3 ft. above the base of the HYDR*IM*. A floor drain is acceptable (check local codes).

Electrical requirements:

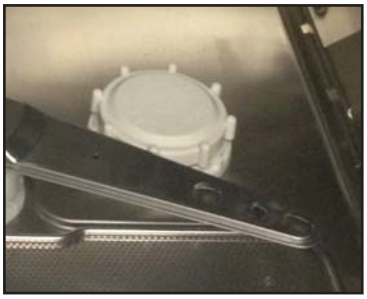
Connect the electrical cord to the power supply. The HYDR*IM* must have a dedicated circuit equipped with a 15A fuse. The outlet must be grounded.

Additional Information:

- The HYDR*IM* unit is heavy. Use a forklift or dolly and exercise caution when moving it.
- The HYDR*IM* should be serviced on site.
- The HYDR*IM* is equipped with an air gap / anti-suction device to prevent backflow of dirty water into the water supply. No other air gap device is necessary.
- If you need to extend the water inlet and drain hoses, ensure that you use commercial grade plumbing hose.
- The maximum length of the drain hose is 3.3 m / 13 ft.

Installing the water softener salt:

Unscrew the salt container lid and pour 1 litre / 1 quart of water into the water softener. Add 1 kg / 2.2 lbs of water softening salt in the same manner. Screw the salt container cap on tightly.



Handling and installing the HIP™ cleaning solution

The HIP™ cleaning solution is used in dilute form as a detergent for the cleaning of surgical instruments in the HYDR*IM* range of washers and washer disinfectors. It is a colourless and almost odourless liquid which is completely soluble in water.

The pH range of the concentrated solution is between 9.3 to 9.8 and the solution is therefore alkaline. It is therefore advised that certain precautionary measures are observed when handling and during the loading of the solution into the machine, and when removing and disposing of the empty box.

4. Installation Instructions

Recommended precautionary measures with regard to safe handling of HIP™ cleaning solution.

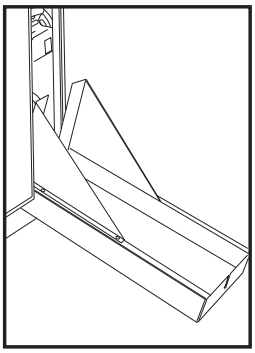
- Always wear undamaged gloves made of natural or butyl rubber, nitrile, or neoprene (Surgical gloves are ideal).
- Always wear eye protection.
- Protect exposed skin on arms.
- If solution is spilled on clothing, remove the item of clothing and wash affected skin with plenty of water, in accordance with the Material Safety Data Sheet requirements.
- Use good industrial hygiene practices in handling this material. When handling, do not eat or drink.
- After handling the product, remove and dispose of gloves and wash hands prior to removing eye protection.
- Do not use the personal protective equipment you use for clinical activities to handle HIP™ products.
- Always ensure that personal protective equipment, if contaminated with HIP™ cleaning solution, is cleaned, or disposed of as appropriate.

For comprehensive data on HIP™ cleaning solution, please visit SciCan.com to view or download a PDF of the Material Safety Data Sheet.

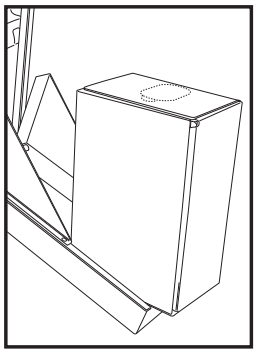
To install the HIP™ cleaning solution box, follow these steps:

Installing Cleaning Solution:

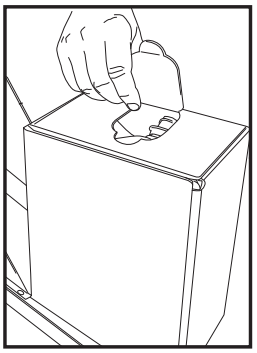
Install HIP™ Cleaning Solution as follows:



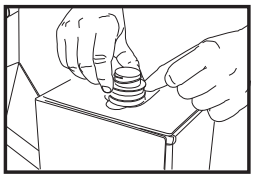
Open the cleaning solution drawer.

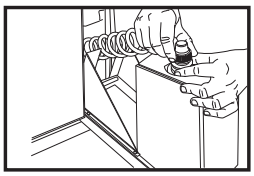


Put a new cleaning solution box into the drawer upside down.

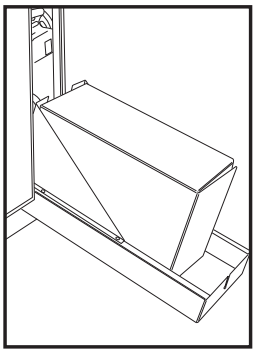


Tear open the tab.





Pull out the spout and remove the protective cap. Connect the hose.



Place the box in the cleaning solution drawer and then close.

Technician Installation Test: Turn on the shut-off valves. Run a cycle, checking for leaks in the plumbing connections.

4. Installation Instructions

Water quality

The quality of the water being used in the HYDR*IM* to clean the instruments is very critical to achieving satisfactory cleaning results and to protecting the instruments and the internal parts of the unit from deterioration.

Drinking water typically contains many dissolved solids. The amount of dissolved solids greatly depends on the local natural geological conditions and they can cause stains, spots and corrosion on instruments and on the internal parts of the HYDR*IM*. Among others, Iron, Manganese, Chloride, and Calcium Carbonate ($CaCO_3$) are the dominant dissolved solids that affect the cleaning results when using a washer.

Iron and Manganese can cause orange and brown or black stains on the instruments and on the internal parts of the HYDR*IM*. Chloride is usually responsible for causing stains, spotting, pitting and scaling. If the instruments or the inner parts of the HYDR*IM* L110w G4, such as the chamber, show any of these spots or stains, a water test may be required to determine the cause. The installation of a water treatment system may be required to reduce the amount of dissolved solids in the water and to improve the cleaning performance of the HYDR*IM*.

Calcium Carbonate is the principle cause of water hardness and leaves white spots or scales. The HYDR*IM* is equipped with a built-in water softening system that must be adjusted according to the local water hardness. Please see the next section of this manual for recommended regeneration settings.

Before using the HYDR*IM*, SciCan recommends testing the water and recording the results for water hardness, pH value, and water conductivity for future reference.

IMPORTANT: The HYDR*IM*'s water softening system reduces the water hardness by taking out Calcium Carbonate. If your water testing results show that your water hardness is outside the unit's range of adjustment, or if other dissolved solids in the water cause stains or deposits on the instruments or chamber, an external water treatment system may be required.

4. Installation Instructions

Testing water quality

The HYDR*IM* L110w G4 is equipped with a built-in water softening system that must be adjusted according to the local water hardness. To read local water hardness, proceed as follows:

1. The water test kit included with your HYDR*IM* contains three water hardness test strips in bags. Take a water sample from the location where the machine will be installed.
2. Open one of the bags, remove the test strip and dip it into the water.
3. Compare the color of the strip with the chart on the back of the bag Determine the water hardness according to the chart on the water test kit envelope.
4. Power the unit on and select the Settings key from the main menu.
5. Go to the Setup Menu and select “Set Regeneration”.
6. Using the up and down arrows, set the water softener regeneration level according to the water hardness table in this section. If your water hardness falls between two settings, select the higher setting.
7. Unscrew the water softener container lid from the bottom right of the chamber and pour at least 1.0 litres (0.26 gal) of water into the water softener container. Then fill the salt container to the top (maximum 1 kg/ 2.2 lbs.) with salt. Close by screwing the lid **tightly** back into place and run a complete cycle with no instruments. An improper seal can lead to corrosion.

Water Hardness Conversion and salt regeneration levels

	°dH	US GPG	PPM (mg CaCO3 / Litre)	Regen.
Typically No Treatment Necessary (values from 18-143)	1	1.0	18	1
	2	2.1	36	
	3	3.1	54	
	4	4.2	71	
	5	5.2	89	
	5.6	5.8	100	
	6	6.3	107	2
	6.2	6.4	110	
	7	7.3	125	
	8	8.3	143	
May Require External Treatment (values from 150-535)	8.4	8.8	150	3
	9	9.4	161	
	10	10.4	178	
	10.1	10.5	180	
	11	11.5	196	
	11.2	11.7	200	4
	11.8	12.3	210	
	12	12.5	214	
	13	13.6	232	
	14	14.6	250*	
	15	15.6	268	5
	16	16.7	286	
	16.8	17.5	300	6
	17	17.7	303	
	18	18.8	321	
	19	19.8	339	
	19.6	20.5	350	7
	20	20.9	357	
	20.2	21.0	360	
	21	21.9	375	
	22	22.9	393	
	22.4	23.4	400	
	23	24.0	411	
	24	25.0	428	
	25	26.1	446	
	25.2	26.3	450	8
	26	27.1	464	
	27	28.2	482	
	28	29.2	500	
	28.6	29.8	510	
	29	30.2	518	
	30	31. 3	535	
External Treatment Required (values >535)	≥30.3	≥31.6	≥540	Additional Water Treatment Required

*Please note: The water test strip is only accurate up to 250 ppm. If the reading on the test strip exceeds 250 ppm and/or if the location in which the HYDR*IM* is installed has known water quality problems, having a more detailed and accurate water test done by a test lab is strongly recommended.