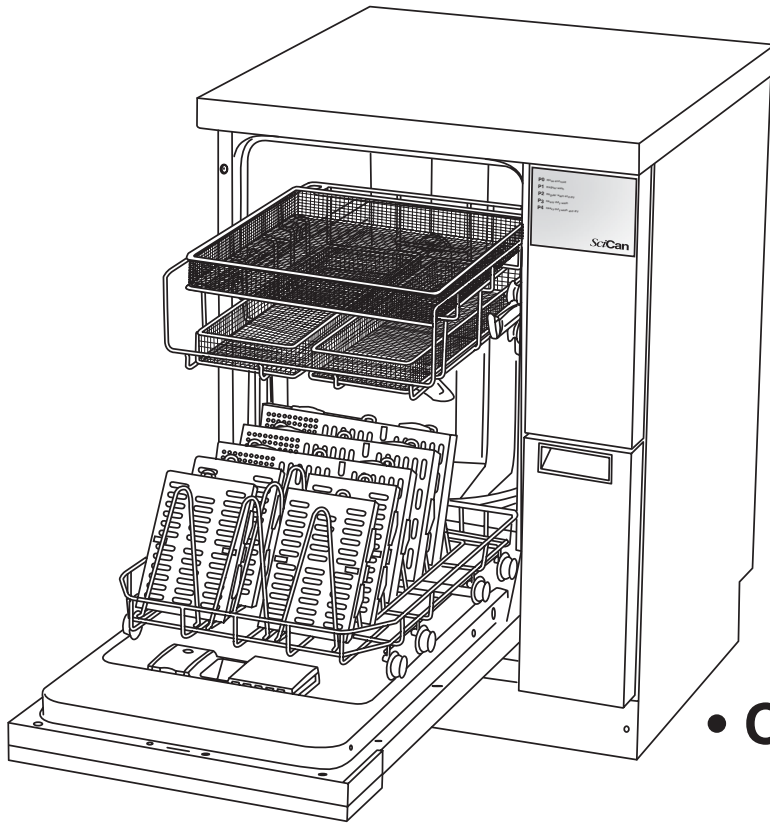


HYDRIM L110w



• Operator's Manual

SciCan

www.scican.com

HYDRIM L110w Operator's Manual 95-108257 Rev. 2.0
Copyright 2003 SciCan. All rights reserved.

Table of Contents

1. Introduction	.2
2. Important Information	.3
3. Disclaimers	.4
4. Installation	.5
4.1 Suggested Installation Configurations	
4.2 Electrical Connection	
4.3 Connection to Water Intake	
4.4 Drainage	
4.5 Disconnecting the Unit	
4.6 Installation Tips	
5. Instructions for Use	.8
5.1 Program Description Chart	
5.2 Instrument Reprocessing Recommendations	
5.3 Inventory of Goods	
5.4 Accessory Configurations	
5.5 Activating the Unit	
5.6 Interrupting a Program	
6. Maintenance	.12
6.1 Hydrim Cleaning Solution	
6.2 Water Softener	
6.3 Rinse-Aid	
6.4 Filters	
6.5 Wash Arms	
7. Troubleshooting	.16
8. Warranty	.19
9. Specifications	.20

Manufactured by:

SciCan

1440 Don Mills Road, Toronto,
ON M3B 3P9 CANADA

Phone: (416) 445-1600

Fax: (416) 445-2727

Toll free: 1-800-667-7733

For all service and repair inquiries:

In Canada / United States: 1-800-870-7777

SciCan Inc.

500 Business Center Drive, Pittsburgh, PA 15205 USA

Phone: (412) 494-0181

Fax: (412) 494-4794

Toll free: 1-800-572-1211

Email (Service and Repair): techservice.ca@scican.com

Email: customer_servicecanada@scican.com

1. Introduction

Congratulations on your selection of the HYDRIM® L110w instrument washer. The Hydrim L110w is designed to complement the STATIM family of autoclaves by quickly and hygienically preparing soiled instruments for sterilization.

To ensure years of safe, trouble-free service, carefully review this Operator's Manual before operating the unit. The Hydrim L110w is suitable only for the applications listed in this user manual. The manufacturer cannot be held responsible for damage caused by improper use.

Operational, maintenance, and replacement instructions must be followed for the product to perform as designed. All trademarks referred to in this manual are the property of their respective owners. Contents of this manual are subject to change without notice to reflect changes and improvements to the Hydrim product.

The Hydrim L110w should only be installed and serviced by a SciCan qualified contractor, as it is an Installation Category 2 device. Before connecting the unit, the installer should check that the voltage and frequency of the electrical supply correspond with the details in the installation instructions. Please note, this unit is completely isolated from the electrical supply only when it is unplugged or the circuit breaker is turned **OFF**. This must be done before any repair work is carried out.

The Hydrim L110w uses exclusively Hydrim Cleaning Solution. The unit will not perform as outlined by SciCan using other cleaning solutions or cleaning products. Using other cleaning solutions or cleaning products may damage the unit, cause excessive foaming and may void the warranty.

Pay close attention to the symbols that appear in the margins. The following symbols indicate:



a potential hazard to the operator,



a situation or circumstance which may lead to a mechanical failure,

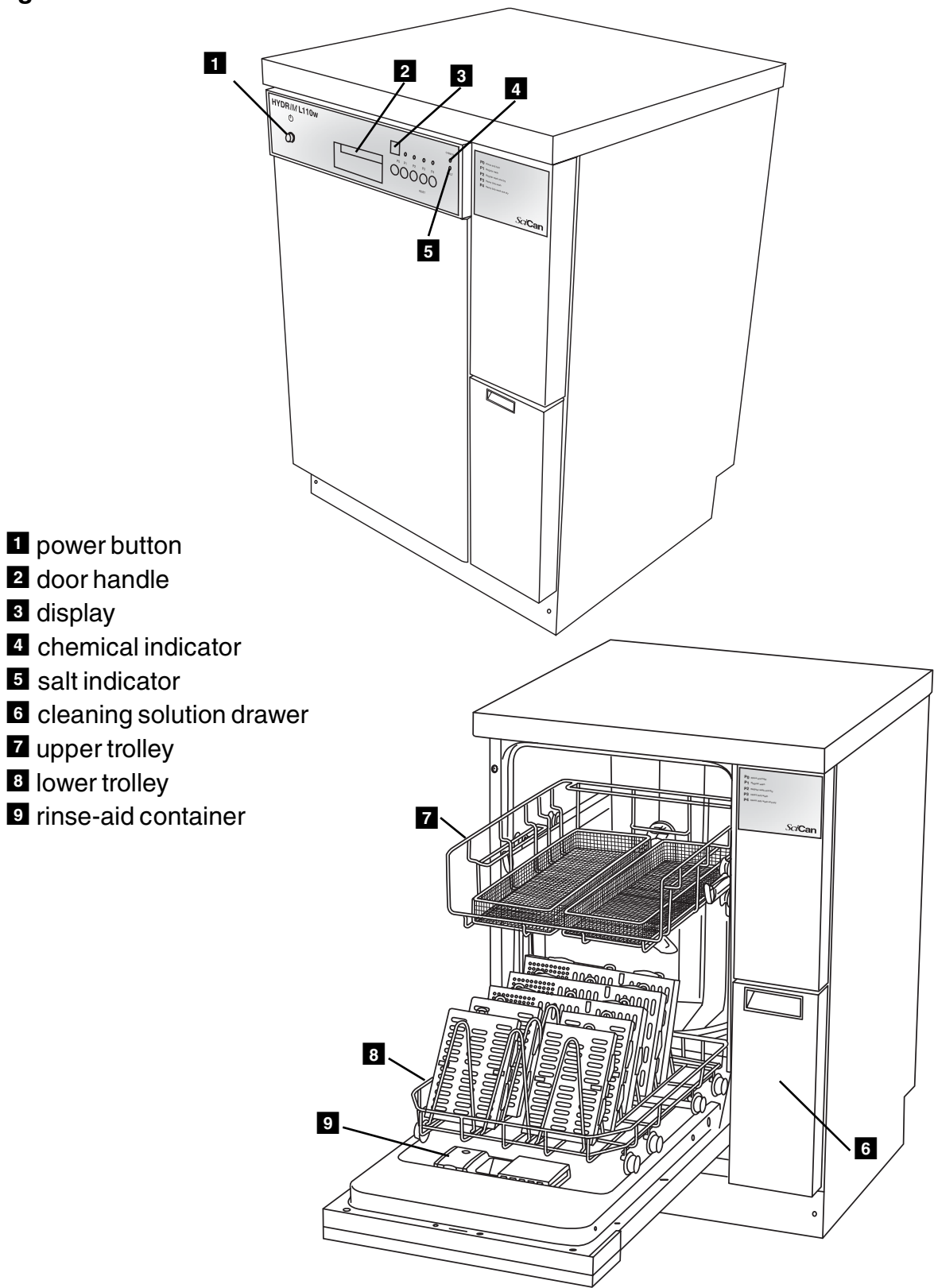


important information.

Hydrim is a registered trademark of SciCan, Division of Lux & Zwingenberger Ltd.

2. Important Information

Figure 1



3. Disclaimers



Do not permit any person other than authorized personnel to supply parts or maintain your Hydrim L110w. SciCan shall not be liable for incidental, special or consequential damages caused by any maintenance or services performed on the Hydrim L110w by unauthorized personnel, or for the use of equipment or parts manufactured by a third party, including lost profits, any commercial loss, economic loss, or loss arising from personal injury.

Never remove the cover of the unit and never insert objects through holes or openings in the cabinetry. Doing so may damage the unit and/or pose a hazard to the operator.

Allow only trained and authorized personnel to operate the unit.

Cleaning solutions may irritate. Avoid contact with eyes and mouth.

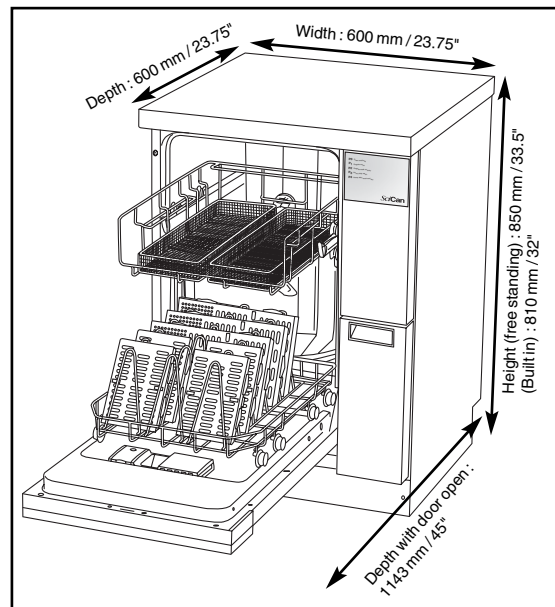
Always turn the unit **OFF** before adding softener salt, adding solutions or performing routine maintenance to the unit. For further information or questions about the Hydrim L110w, contact your authorized dealer.

4. Installation

4.1 Suggested Installation Configurations

The Hydrim L110w should only be installed and serviced by a qualified SciCan contractor, as it is an Installation Category 2 device. The contractor should be experienced in installing equipment that requires electrical hook-up as well as plumbing.

The machine must be installed and leveled correctly for the unit to function as described. All electrical work must be carried out by a qualified electrician and in compliance with all local and national electrical codes.



4.2 Electrical Connection



This appliance must be correctly grounded! The manufacturer cannot be held responsible for damage or injury caused by incorrect or missing grounding. Before making any connections, check that the voltage shown on the serial number label corresponds to your power supply. The machine is supplied as standard for connection

to a 208-240 V 60 Hz single-phase power supply and is fitted with a power supply cord 1.8m / 6ft. long. It should be connected to the main power supply according to the information below.

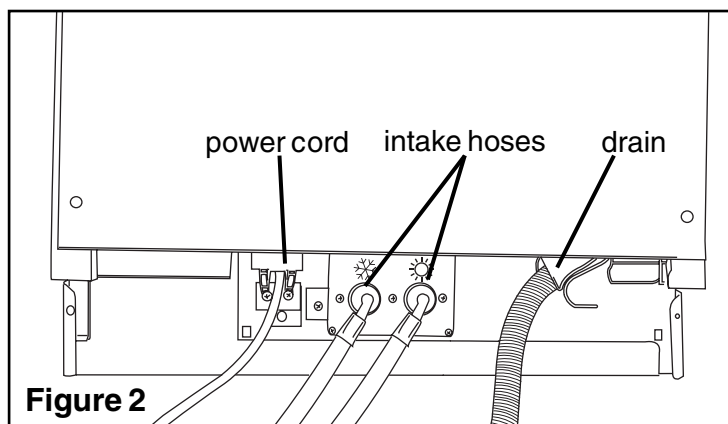


Figure 2

Electrical Connection	
Voltage:	208-240 V
Frequency:	60 Hz
Rated load:	2.5 kW
Circuit breaker:	15 A maximum

If you need to extend the mains connecting lead, do not cut off the plug. Replace the whole cable, which can be disconnected at the junction box on the rear of the unit.

4. Installation cont'd

4.3 Connection to the Water Intake

The unit must be connected to the water supply in accordance with all local and national plumbing codes. SciCan recommends a hard plumbing installation within 1.5m / 5ft. of the unit. If additional distance is necessary, commercial grade plumbing hose must be used to minimize leaks.

Connect the inlet hoses to hot and cold water taps using the enclosed parts and in accordance with the installation instructions.

Water Connection	
Water Pressure:	0.5 - 10 bar / 7 - 145 psi
Water Temperature:	• Cold water less than 30°C / 86°F • Hot water up to 60°C / 140°F

4.4 Drainage

The unit is supplied with a 1.5 m / 5 ft. flexible drain hose with a 2 cm / ³/₄" barb inlet. The hose should not be shortened or attached to any fittings that would cause a reduction in water flow. The drain system is equipped with a non-return valve that prevents dirty water from flowing back into the unit.

The drain hose should not be further than 1.5 m / 5 ft. from a hard plumbing drain. If this is not possible, then commercial grade plumbing hose must be used to minimize leaks.

The hose can be attached to an existing drain line through the use of a 3.5 cm / 1 ¹/₂" or larger stand pipe / P-trap combination. Alternatively, the hose can be connected directly to the existing drain lines, provided any fittings or adapters used do not reduce the water flow. The drain hose should not exceed 3.3 m / 13 ft. in length, or be attached to the main drain at a point higher than 35 cm / 14" above the floor.

4.5 Disconnecting the Unit

To disconnect the unit, follow these steps:

1. Unplug the unit from the mains supply.
2. Turn off the water supply
3. Disconnect the drain and water intake hoses.
4. Pull out unit and carefully withdraw hoses at the same time.

4. Installation cont'd

4.6 Installation Tips

1	Obtain the hardness of water using the enclosed test-strips, or from the local water utility. You need this information to adjust the water softener dial in the unit according to the operator's manual, section 6.2.
2	<p>The installation site needs to be inspected and prepared in advance. An electrician and/or a plumber may be required for this.</p> <ul style="list-style-type: none">a) A level, water-resistant surface, preferably close to the sink for easy access to the hot and cold water and the drain, is recommended for installation site.b) Holes may need to be drilled into the cabinet to route the hot and cold water hoses, drain tube and power cord to the supplies.c) The supply hoses provided with the unit are 2 m / 6.5 ft long with 2 cm / $\frac{3}{4}$" garden hose female fittings. The hot and cold water lines must have taps with corresponding male fittings. A water pressure of 0.5-10 bar (7-145 psi) is required. Make sure that the hot and cold water hoses are connected to their respective inlet connectors (not reversed) at the back of the unit.d) The flexible drain tube provided with the unit is 1.5 m / 5 ft long with a barb inlet, inner diameter of 2 cm / $\frac{3}{4}$". It should be connected to a drain point no more than 35 cm / 14" above the floor.e) If the unit cannot be installed close to the sink, the water hoses and the drain may need to be extended. Any additional necessary tube, connector and fitting should be procured prior to installation. Please note that the drain tube should not exceed 3.3 m / 13 ft. Make sure that the extension hoses for cold and hot water can withstand the water line pressure.f) The Hydrim L110w is constructed with an air gap / anti-siphoning device on the inlet hoses and drain hose. No additional air gap / anti-siphoning device is necessary.g) A power outlet of 208-240 V, 60 Hz with proper grounding is required for the unit. The power cord of the unit is 1.8 m / 6 ft long.
3	The Hydrim washer is very heavy. Seek assistance if moving it.
4	When connecting the water hoses, the connector with the elbow connects to the back of the unit. The washer with the screen goes into the connector in the other end of the hose.
5	Make sure that the voltage and frequency of the power outlet are the same as specified on the label of the unit.
6	Make sure that Hydrim cleaning solution, water softening salt (if required), and rinse-aid are available.
7	Once installed, turn the water taps to the open position, ensure the unit is plugged in to the power supply, and run a program. Check the water and drain connections at both ends for leaks.

5. Instructions for Use

5.1 Program Description Chart

The program duration and consumption details are shown in the chart below:

Program	Wash Temperature	Time*	Water Usage
P0 - Rinse and Hold	30°C / 86°F	8 minutes	4 L / 1 gallon
P1 - Regular wash	50°C / 122°F	20 minutes	12 L / 3 gallons
P2 - Regular wash with dry	50°C / 122°F	30 minutes	12 L / 3 gallons
P3 - Heavy duty wash	50°C / 122°F	30 minutes	16 L / 4 gallons
P4 - Heavy duty wash with dry	50°C / 122°F	40 minutes	16 L / 4 gallons

* Actual cycle time will vary depending on incoming water temperature and pressure

P0 should be used to keep instruments moist when they will not be washed within one hour

P1 and P2 should be used to wash instruments in baskets

P3 and P4 should be used to wash instruments in cassettes, hinged instruments, and heavily soiled instruments

5.2 Instrument Reprocessing Recommendations

When used correctly, the Hydrim L110w is effective for the removal of debris on instruments that may result in the insulation of microorganisms during a terminal sterilization. Prior to inserting your instruments into the Hydrim, consult the manufacturer's reprocessing instructions.

All critical and semi-critical instruments can be considered clean after processing in the Hydrim L110w. Critical instruments: used to penetrate soft tissues or bone, for example forceps, scalpels, and scissors. Non-critical instruments: devices that come into contact only with unbroken skin. Non-critical instruments can be terminally processed in the Hydrim L110w.

Examples of instruments suitable for washing in the Hydrim L110w include: Stainless steel scalers, spatulas, hemostats, evacuation tips, scissors, forceps. All other instruments should have the following properties: heat resistance to a temperature of up to 90°C / 194°F and corrosion resistance in the presence of heat and alkalinity.

Also, when assessing instrument suitability with Hydrim Cleaning Solution, reference these guidelines:

- Good quality stainless steel instruments are suitable for processing with Hydrim Cleaning Solution.

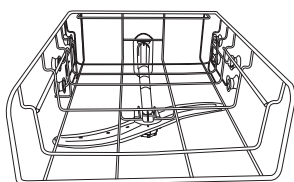
5. Instructions for Use cont'd

- Carbon steel is not suitable for processing in Hydrim Cleaning Solution. Examples of carbon steel are Hartzell tips and burs.
- Stainless steel instruments that have working tips made of other materials may not be suitable for processing in Hydrim Cleaning Solution. Check with the manufacturer of the instrument for the material.
- Stainless steel instruments that are chrome plated are not suitable for processing in Hydrim Cleaning Solution. Mechanical rotating instruments such as burs, grinders and root canal instruments are not suitable for processing in Hydrim Cleaning Solution.
- Dental handpieces, microkeratomes, phaco tubing, fiberoptics and electrical equipment should not be processed in the Hydrim.
- The high heat retention capacity of stainless steel allows for fast drying. Plastic has a lower heat retention capacity, thus needing a longer drying time.
- Rhodium-coated specula should be arranged so that their surfaces do not suffer any damage. Not all specula with glass are suitable for machine treatment.
- SciCan recommends that all hinged instruments be placed in open baskets in the Heavy Duty cycle.
- When processing small objects in the Hydrim use the basket with hinged lid (SciCan part number 01-108294). Failure to do so will result in small objects being thrown out of the baskets, which may cause damage to the machine.
- Please ask the instrument manufacturer's advice on the suitability for processing complicated instruments in this washer.
- Remove any residual debris (e.g. cement, resin) prior to placing instruments in the unit. It is not necessary to routinely rinse instruments under running water.
- Plastic objects that are not resistant to hot water are not suitable. Highly absorbent materials such as sponges or towels should not be placed in the unit.

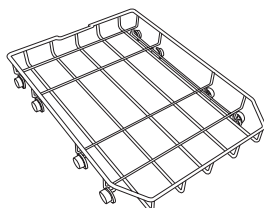
5.3 Inventory of goods

When you receive your Hydrim L110w packing carton, the items listed below will be included :

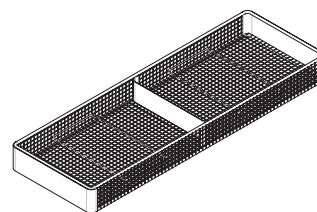
Standard items



Upper trolley
Part number 15553.20

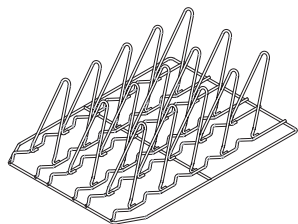


Lower trolley
Part number 15554.10

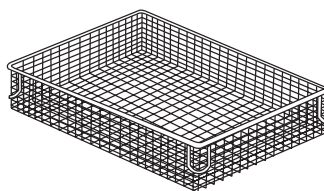


Long basket (3 pcs) for upper rack
Part number 01-108232

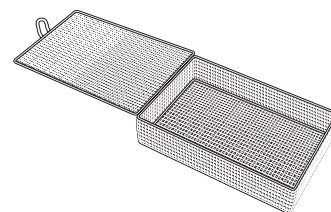
5. Instructions for Use cont'd



Rack for 5 cassettes for lower trolley
Part number 01-108231



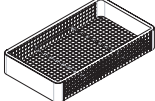


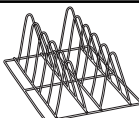

Statim 2000 basket
Part number 01-107240



Basket with hinged lid
Part number 01-108294

The following items are optional, allowing you to customize the Hydrim L110w to your needs:

	Large basket Part number 01-108210 350 mm X 368 mm X 64 mm (13.75" X 14.5" X 2.5")
	Statim 5000 basket Part number 01-107241 373 mm X 178 mm X 42 mm (14.75" X 7" X 1.75")
	Hygiene basket Part number 01-108298

	Rack for 5 large cassettes for upper trolley Part number 01-108230
	Rack for Hinged Instruments Part number 15793.00

5.4 Accessory Configurations

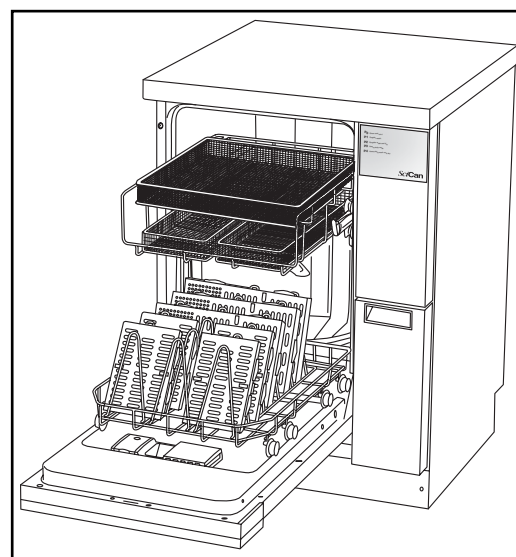
Upper trolley :

1. 2 x long basket
2. Long basket and 2 x basket with hinged lid
3. 2 x Statim 2000 basket
4. Statim 2000 basket and 2 x hygiene basket
5. Statim 5000 basket and 2 x hygiene basket
6. Cassette rack for 5 large (8" x 11") cassettes

For configurations 1 - 5, the large basket can be placed on the top layer of the upper trolley.

Lower trolley :

1. Cassette rack for 5 large (8" x 11") cassettes
2. 2 x long basket
3. Large basket
4. 3 x Statim 2000 basket
5. 2 x Statim 2000 basket and 1 x hygiene basket
6. Statim 2000, Statim 5000 and hygiene basket

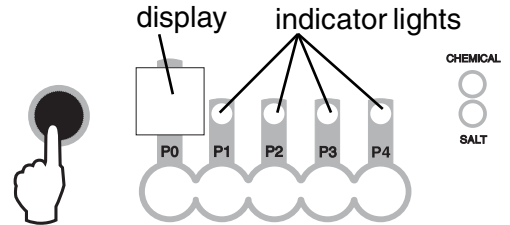


5. Instructions for Use cont'd

5.5 Activating the Unit

Prior to activating the unit, follow these steps:

1. Set the power button to **ON**.
2. Select the appropriate program (P0-P4).
 - The display will show the selected program
 - The program then starts automatically.
 - During the program, the display alternates between the cycle selected (eg. P3) and the approximate time remaining in the cycle. The indicator light for the selected program is lit.
3. The program has ended when “00” appears in the display and the buzzer sounds for 10 seconds.
4. After the program has ended :
 - Set the power button to **OFF** and open the door
 - Remove the instruments from the unit



5.6 Interrupting a Program

NOTE: Interrupting a program is not recommended. If you need to interrupt a program, the instruments will be processed again to ensure proper washing. To interrupt a program, set the power button to **OFF** to stop the water circulation. The indicator lights will go out. Open the door. Make the desired changes to the instruments in the washer. When the unit is powered **ON** again, the display will show “00”. At this point, the operator has two choices:

1. Within 10 seconds after powering the unit **ON**, the operator can select a new cycle and the Hydrim L110w will run that cycle
2. If a new cycle is not selected, the unit will re-start the previous cycle from the beginning. This ensures that instruments are properly washed.

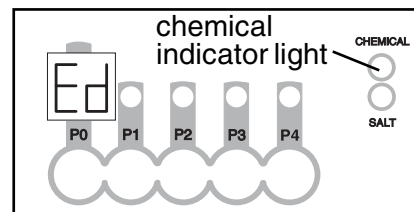
NOTE: If the cycle is interrupted during the drying phase, it is considered complete and the Hydrim L110w will not restart automatically as described in (2) above.

6. Maintenance

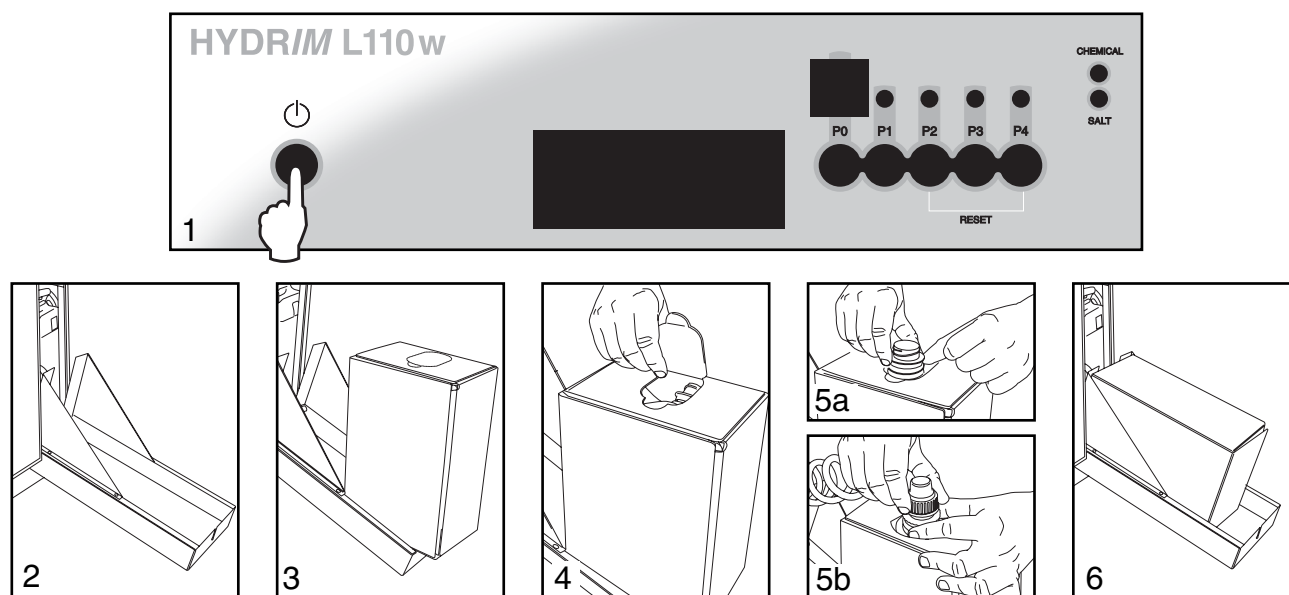
6.1 Hydrim Cleaning Solution

The Hydrim L110w uses exclusively Hydrim Cleaning Solution. The unit will not perform as outlined by SciCan using other cleaning solutions or cleaning products. Also, using other cleaning solutions or cleaning products may damage the unit, cause excessive foaming and may void the warranty.

When the chemical indicator light shines continuously, and Ed appears on the display, the solution level is low and the container is in need of replacement. The cycle is aborted at this point. Each cleaning solution container will last approximately 45 cycles. To avoid spillage, replace the solution container only when the chemical indicator light is on. Also, be sure to wear gloves.



To order additional Hydrim Cleaning Solution, contact your local SciCan dealer.



To replace the cleaning solution container, follow these steps:

1. Power off machine
2. Open the cleaning solution drawer.
3. Put a new cleaning solution box into the drawer upside down.
4. Tear open the tab.
- 5a. Pull out the spout and remove the protective cap.
- 5b. Connect the hose by screwing the connector tightly.
6. Place the box in the cleaning solution drawer and then close.

6. Maintenance cont'd

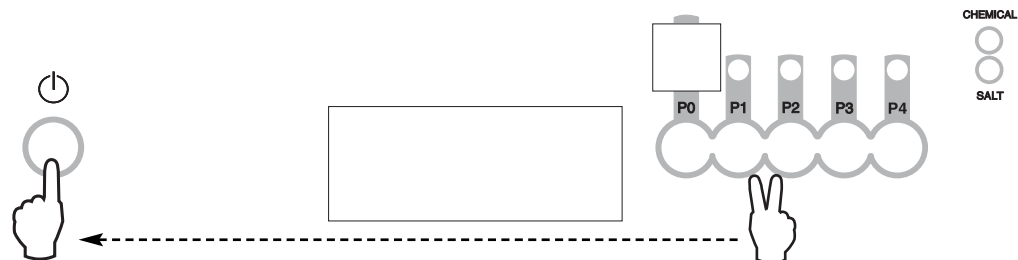
6.2 Water Softener

The Hydrim L110w has an integrated water softening system. Since Hydrim Cleaning Solution has sufficient softening properties to minimize water spots, residual soap, scale and calcium build-up, the Hydrim L110w is shipped with the softening salt setting at 0. If you are in an area where the water hardness is higher than normal, the use of water softening salts and rinse-aid may improve the cleaning results.

To use the water softening system, you will first need to determine the hardness of your local tap water. Please use the enclosed water test strips, or contact your local water utility. Once you are aware of the hardness, you can identify the setting from the following table:

ppm	qpq	°dH	°fH	°Clarke	mmol / l	Hydrim L110w setting
0 - 110	0 - 6.5	0 - 6	0 - 11	0 - 8	0 - 1.1	0
120 - 140	7 - 8	7 - 8	12 - 15	9 - 10	1.2 - 1.4	1
150 - 180	8.5 - 10.5	9 - 10	16 - 17	11 - 12	1.5 - 1.8	2
190 - 210	11 - 12	11 - 12	18 - 21	13 - 15	1.9 - 2.1	3
220 - 290	12.5 - 17	13 - 16	22 - 29	16 - 20	2.2 - 2.9	4
300 - 370	17.5 - 21.5	17 - 21	30 - 37	21 - 26	3.0 - 3.7	5
380 - 540	22 - 31.5	22 - 30	38 - 54	27 - 38	3.8 - 5.4	6
550 - 890	32 - 52	31 - 50	55 - 89	39 - 62	5.5 - 8.9	7

To change the water softener setting, follow these steps:



1. Press and hold the P1 and P2 buttons simultaneously
2. Turn the power button **ON**, before releasing the P1 and P2 buttons. The display will show the actual water softener setting value.
3. Adjust by pressing P0 for down and P1 for up. Default value is 0.
4. Set the power button to **OFF**. The new setting is stored in the unit memory.



In areas with hardness greater than 890 ppm, additional water treatment may be required. Contact a local water treatment company to advise on how to install an external water softening system.

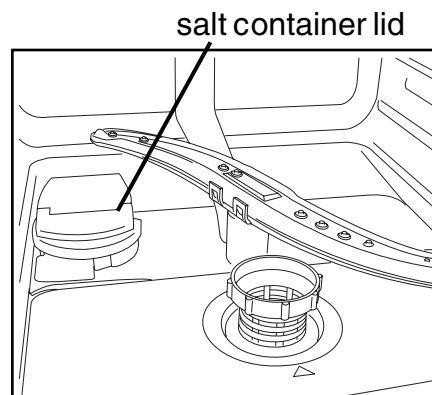
NOTE: Do not pour cleaning solution into the container for salt. This will destroy the water softener.

6. Maintenance cont'd

If you have set the water softener to any setting above 0, the SALT indicator flashes when you need to refill the salt container.

To add water softening salts, follow these steps:

1. Open the salt container lid.
2. Upon first use of the Hydrim L110w, pour approximately 1 litre (1 quart) of water into the salt container. It is not necessary to add water during subsequent refills of the salt container.
3. Using the accompanying salt jug, fill the salt container to the top (maximum of 1 kg / 2.2 lbs.)
4. Close the salt container lid.



After the salt has been added to the unit, the softening salt indicator will initially remain lit. The indicator will turn off when the salt solution has become sufficiently concentrated.

6.3 Rinse Aid

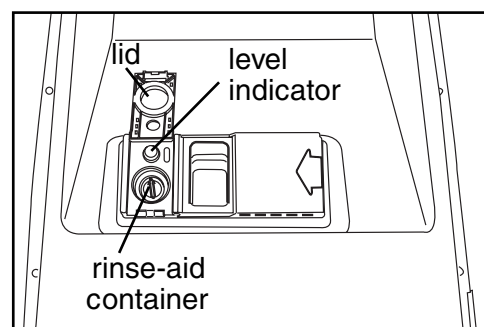
SciCan recommends the use of Stat-Dri Plus rinse aid.

The purpose of rinse aid is to prevent the formation of watermarks on the instruments. Although Hydrim Cleaning Solution minimizes water spots, use of rinse-aid will further reduce this occurrence.

When the chemical indicator light flashes, you will need to refill the rinse-aid container.

To fill the rinse-aid container, follow these steps:

1. Fold back the lid of the rinse aid container.
2. Pour the rinse-aid into the rinse-aid container until the level indicator darkens.
3. Close the lid ensuring you that you hear it snap.



Adjusting the rinse aid dial can vary the amount of rinse-aid added. The rinse aid dial has initially been set to "3.5". Do not alter the setting of the rinse aid dial unless streaks or water marks are found on the instruments.

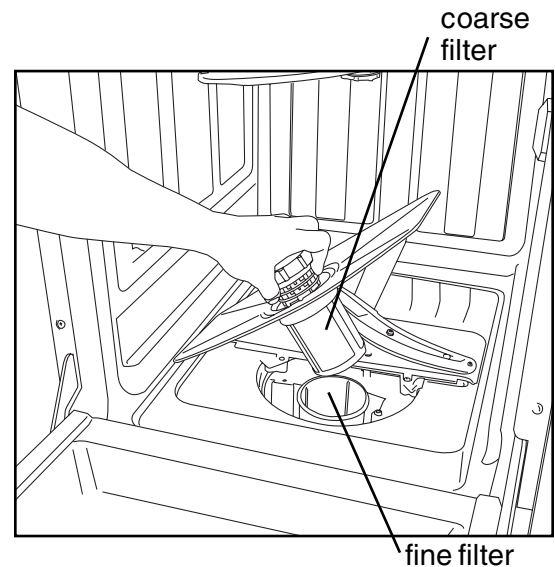
6. Maintenance cont'd

6.4 Filters

The filters prevent large particles in the water from reaching the pump. These particles may occasionally block the filters.

To ensure the filters are debris free, follow these steps:

1. Check the filters daily for debris and remove if necessary.
2. After undoing the coarse filter, the fine filter can be removed. Remove any debris from the filter cavity and rinse the filters under running water.
3. Insert the filter units and tighten the coarse filter.

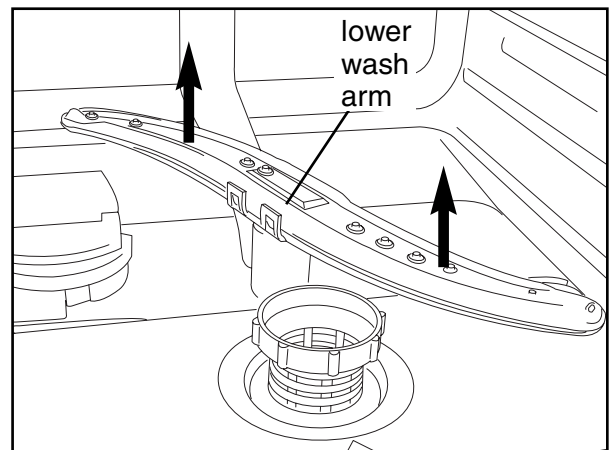
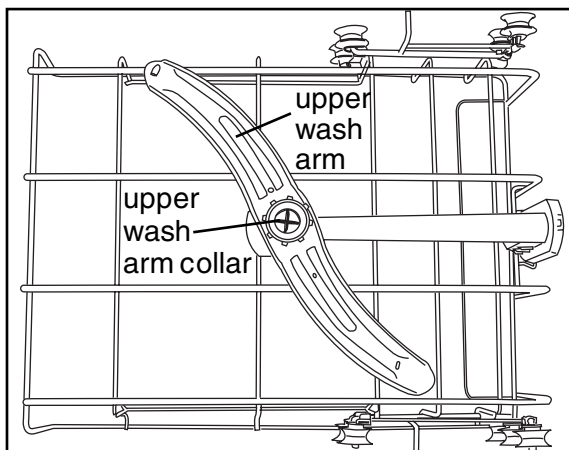


6.5 Wash arms

Debris can block the nozzles in the wash arms and the arm mountings.

To make sure they are kept free of debris, follow these steps:

1. Inspect the nozzles and wash arms weekly for blocked holes due to debris.
2. Pull the lower arm upwards and lift off.
3. Unscrew the upper wash arm collar and remove the upper wash arm.
4. Clean both wash arms under running water.
5. Refit the wash arms. Ensure that the lower wash arm has locked into place and the upper one is screwed tight.




7. Troubleshooting

Here is a list of cycle faults that may appear on the LED.

Fault #	Problem	Effect	Solution
E0	Heat Exchanger filling problem.	The unit fails to fill the heat exchanger in 300s.	• Open the water shut-off valves.
E1	Water heating failure.	Improper wash, cycle aborted.	• Call for a SciCan technician.
E2	Chamber filling failure.	Improper wash, cycle aborted.	• Check for water intake obstruction. • Call for a SciCan technician if water intake is normal.
E3	Chamber temperature reading failure.	Improper wash, cycle aborted.	• Call for a SciCan technician.
E4	Water evacuation failure.	Cycle interrupted.	• Check the fine and coarse filters for obstruction. • Call for a SciCan technician if filters clean.
E6	Serial transmission failure.	Unit functionality failure, cycle aborted.	• Call for a SciCan technician.
Ed	Dosing system failure.	Improper wash, cycle aborted.	• Replace detergent bottle and restart cycle. • If error persists, call for a SciCan technician.
E8	Water inlet temperature reading failure.	Improper wash, cycle aborted.	• Replace detergent bottle and restart cycle. • Call for a SciCan technician.
E9	Program timeout.	Program fails to end in 3 hours.	• Call for a SciCan technician.
EF	Flow error	Cleaner flow meter error.	• Call for a SciCan technician.

7. Troubleshooting cont'd

Here is a list of common occurrences and their corresponding solutions.

Problem	Cause / Solution
Unit does not start up. 	<ul style="list-style-type: none"> Fault with fuse in mains electricity supply. Plug not inserted into wall outlet. Unit door not closed properly. Water tap is not turned on properly. <p>Caution: Repairs should be carried out by a skilled and qualified specialist. Improper repairs can lead to considerable equipment damage as well as danger to the user.</p>
Lower wash arm rotates with difficulty.	<ul style="list-style-type: none"> Wash arm is blocked by small debris. See Section 6.5
Water remains inside the unit after the program has ended.	<ul style="list-style-type: none"> Blockage or kink in drain. Pump is jammed. Filters are blocked. See Section 6.4.
Unusual amount of foam is created.	<ul style="list-style-type: none"> Normal dishwashing liquid has inadvertently been poured into the Rinse Aid container. Instruments have been soaked in a cleaning solution other than Hydrim Cleaning Solution.
Unit stops suddenly during a cycle.	<ul style="list-style-type: none"> Cut in electricity supply to unit. Check circuit breaker. Water leakage in the Hydrim. Call a SciCan technician.
Knocking sound can be heard while washing is taking place.	<ul style="list-style-type: none"> A wash arm is knocking against the items inside the unit.
Rattling sound can be heard while washing is taking place.	<ul style="list-style-type: none"> The items have not been properly placed in the unit.
Knocking sound coming from the intake valves.	<ul style="list-style-type: none"> This is caused by the way the water pipes have been laid and has no effect upon the way the unit functions. There is no remedy for this.
Drying performance has decreased.	<ul style="list-style-type: none"> The air filter may need to be changed. Call a SciCan technician.

7. Troubleshooting cont'd

Debris is found on the instruments.	<ul style="list-style-type: none">• The unit was not loaded properly. Water jets could not reach all surfaces.• The instrument cassettes or baskets were overloaded.• There were too many cassettes or baskets in the unit.• The selected program was not appropriate for the load.• The wash arms are obstructed.• The nozzles in the wash arms are obstructed by debris.• The filters are obstructed by debris.• The filters have been incorrectly fitted in the unit.• The waste water pump is jammed.
White stains are left on the instruments.	<ul style="list-style-type: none">• Although water is quite hard, no salt has been put into the unit. See Section 6.2.• Water softener was set too low. See Section 6.2.• Lid on salt container is not closed properly.
Instruments have not been properly dried.	<ul style="list-style-type: none">• The selected program did not include the drying function.• Amount of rinse aid was set too low. See Section 6.3.• Items removed from the unit too soon.
Smears are found on the instruments.	<ul style="list-style-type: none">• Amount of rinse aid set too high. See Section 6.3

8. Warranty

Limited Warranty

For a period of one year, **SciCan** guarantees that the **Hydrim L110w**, when manufactured by **SciCan** in new and unused condition, will not fail during normal service due to defects in material and workmanship that are not due to apparent abuse, misuse, or accident.

In the event of failure due to such defects during this period of time, the exclusive remedies shall be repair or replacement, at **SciCan's** option and without charge, of any defective part(s), provided **SciCan** is notified in writing within thirty(30) days of the date of such a failure and further provided that the defective part(s) are returned to **SciCan** prepaid.

This warranty shall be considered to be validated, if the product is accompanied by the original purchase invoice from the authorized **SciCan** dealer, and such invoice identifies the item by serial number and clearly states the date of purchase. No other validation is acceptable. After one year, all **SciCan's** warranties and other duties with respect to the quality of the product shall be conclusively presumed to have been satisfied, all liability therefore shall terminate, and no action or breach for any such warranty or duty may thereafter be commenced against **SciCan**.

Any express warranty not provided hereon and any implied warranty or representation as to performance, and any remedy for breach of contract which, but for this provision, might arise by implication, operation of law, custom of trade or course of dealing, including any implied warranty of merchantability or of fitness for particular purpose with respect to all and any products manufactured by **SciCan** is excluded and disclaimed by **SciCan**. If you would like to learn more about **SciCan** products and features, visit our website at www.scican.com.

9. Specifications

External Dimensions:	Height (free standing)	850 mm / 33.5"
	Height (built in)	810 mm / 32"
	Width	600 mm / 23.75"
	Depth	600 mm / 23.75"
	Depth with door open	1143 mm / 45"
Chamber Dimensions:	Height	609 mm / 24"
	Width	388 mm / 15.25"
	Depth	483 mm / 19"
Weight:		85 kg / 187 lbs
Running Noise:		50 dB
Plumbing:	Supply Hoses (hot / cold water connection)	2 cm / ¾" garden hose female fitting
	Flexible Drain Hose	2 cm / ¾" barb inlet
Electrical Consumption:	North America	208 - 240 V 60 Hz 15 A
	Rated Load	2.5 kW
Other:	Pollution Degree	2
	Installation category	II
	Maximum	
	relative humidity	80 % for temp up to 31°C / 88°F 50 % for temp up to 40°C / 104°F