

Hydrim C51W



Training Manual

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Description & Cycle Times



The Hydrim C51W Instrument Washer is designed to help you achieve an exceptional level of cleanliness while providing a simplified method of washing dental instruments. There is no need to pre-soak items but cement and composites still need to be removed from instruments. **Note: Burs and handpieces should not be placed in the Hydrim.**

Cycle	Rinse & Hold*	Regular Wash & Dry	Heavy Duty Wash & Dry
Description	Use to prevent soil from drying on instruments and if wash cycle is not immediately desired	Use for moderately soiled loose instruments	Use for heavily soiled instruments or cassettes or if using the cannula post
Wash Temperature	35°C/95°F	50°C/122°F	50°C/122°F
Wash/Rinse Time (min.)**	8 minutes	18 minutes	22 minutes
Dry Time	Not Available	10 minutes (factory preset time). Can be extended to 20 minutes.	10 minutes (factory preset time). Can be extended to 20 minutes.
Water Consumption	6 litres/1.59 gallons	14 liters/3.7 gallons	14 liters/3.7 gallons

* This cycle is not a wash cycle and is not suitable for processing instruments prior to reuse. Always run a wash cycle following the rinse and hold cycle.

** Cycle times depend on the temperature of incoming water. SciCan recommends setting hot water supply temperatures to 55°C/131°F minimum. Colder water will result in longer cycle times.

A bottle of soap will last approximately 25 cycles.

Hydrim® C51w Quick Reference Guide

For best results:

Always use the heavy duty cycle for cassettes, hinged instruments, heavily soiled instruments and the cannula post adapter.

Do not allow instruments to dry for more than one hour prior to processing in the Hydrim.

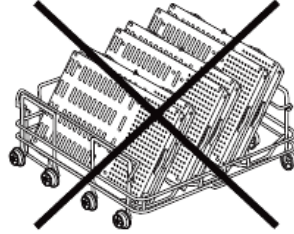
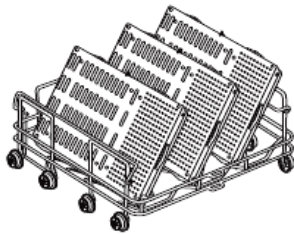
Remove all cement, composite material and amalgam at chairside prior to processing in the Hydrim.

Do not overload cassettes or baskets with instruments. (Follow the manufacturer's guidelines.)

Place hinged instruments in baskets, not cassettes.

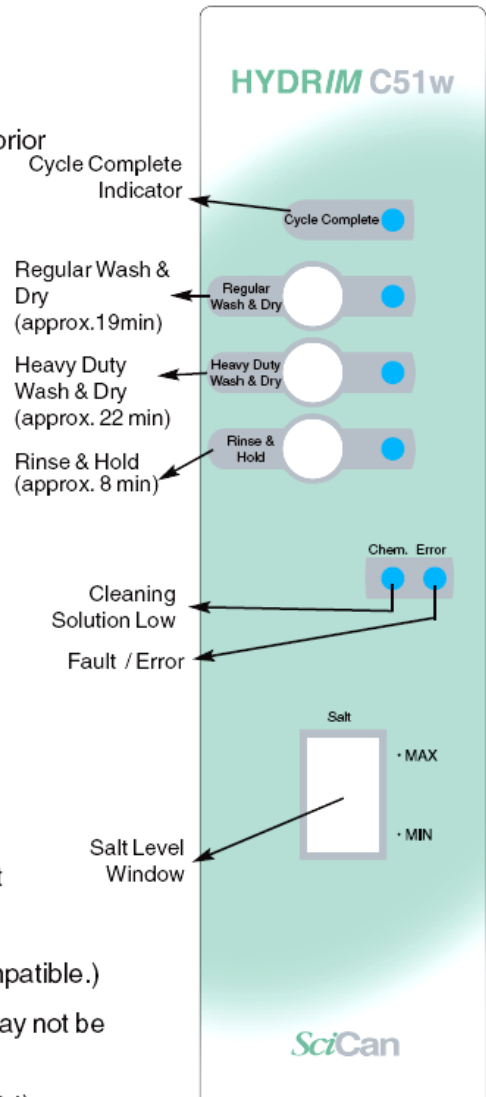
Do not use any detergent or cleaning agent other than HIP Hydrim Cleaning Solution. It is not necessary to soak instruments or cassettes in other detergents prior to placing in the Hydrim.

Place cassettes as indicated, to ensure that fluid fully contacts instruments and cassettes.



Caution:

1. HIP Cleaning Solution (Hydrim Cleaning Solution with Instrument Protection) has been carefully formulated to provide outstanding material compatibility with a wide range of metals and coatings. (Some manufacturers' instruments may not be compatible.)
2. Plastic objects that are not resistant to hot water (65°C / 149°F) may not be suitable.
3. When processing small objects, use the hinged basket (01-108294). Failure to do so will result in small objects being thrown out of the baskets, which may cause damage to the machine.

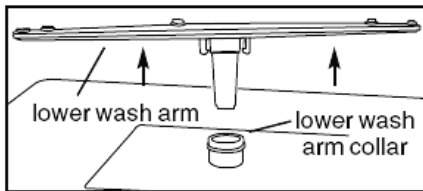
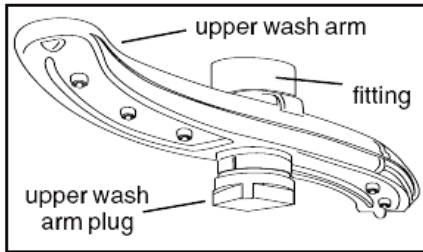
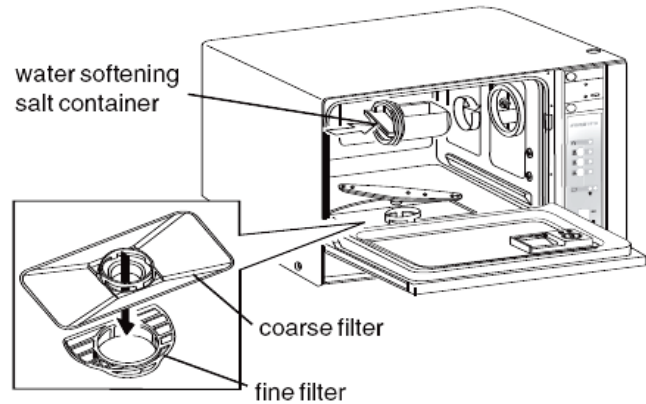


Cycle	Rinse and Hold	Regular Wash	Heavy Duty Wash
Description	Use to prevent soil from drying on instruments and if wash cycle is not immediately desired.	Use for moderately soiled loose instruments.	Use for heavily soiled instruments or cassettes or the cannula post.
Temperature (wash)	35°C / 95°F	50°C / 122°F	50°C / 122°F
Wash / Rinse Time (min.)	8 min.	19 min.	22 min.
Water Consumption	6 litres / 1.59 gallons	17 litres / 4.5 gallons	17 litres / 4.5 gallons

Filter Maintenance:

Inspect the coarse and fine filters **daily** for debris and clean if necessary.

1. Grasp the handle in the center of the coarse filter and turn it 90° counter-clockwise. (To reinsert the coarse filter, turn the handle clockwise.)
2. Remove the coarse filter.
3. Remove the fine filter.
4. Clean both filters by rinsing them in tap water.
5. Re-assemble, ensuring that the filters are locked in place.



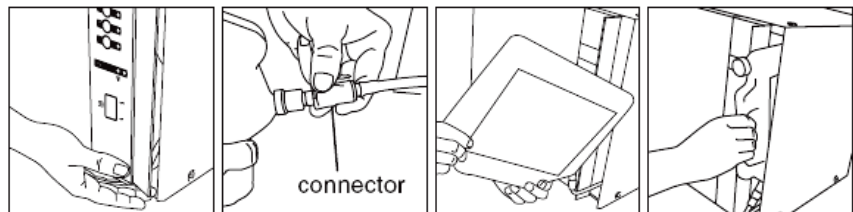
Wash Arm Maintenance:

Inspect the wash arms **weekly** for debris and clean if necessary.

1. Open the unit door and remove the wash rack from the unit.
2. Hold the fitting and unscrew the upper wash arm plug.
3. Remove the upper wash arm.
4. Using two hands, grasp both ends of the lower wash arm on the underside.
5. Pull the lower wash arm upwards.
6. Inspect both sides of the wash arms for debris in the nozzles. Remove the debris where necessary.
7. Rinse both wash arms with tap water.
8. Reassemble the wash arms.

Replacing the Hydrim Cleaning Solution:

When the “cleaning solution low” light is flashing, the Hydrim Cleaning Solution bottle needs to be replaced. Disconnect the old bottle and recycle or discard it. Ensure that the connector is clean and free of residue. Install a new bottle, as shown:



Refilling the Water Softener

Periodically inspect the salt level window. If empty, refill as follows:

1. Fill the water softening salt container with water softening salt.
2. Screw the container back into position.

SciCan

For all service and repair inquiries:

United States: 1-800-572-1211, International: 49-(0) 821 - 278 93400, Canada: 1-800-870-7777

Email: techservice.ca@scican.com

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Hydrim® C51w Installation Instructions

Tools and supplies required to install the Hydrim:

- Slot screwdriver
- Channellocks

Ensure that Hydrim Cleaning Solution (instrument wash chemical) is available. All other supplies are included with the Hydrim unit.

Specifications

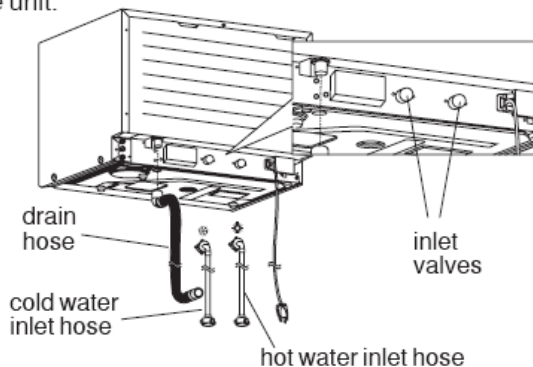
	North America	Europe
Voltage:	208 - 240 V	220 - 240
Frequency:	60 Hz	50 Hz
Rated load:	2 kW	2 kW
Circuit breaker:	10 A per phase	10 A per phase
Dimensions / Mass:		
Height:	475 mm / 18.75"	
Width:	600 mm / 23.75"	
Depth:	460 mm / 18.25"	
Depth with door open:	780 mm / 30.75"	
Weight:	34 kg / 75 lbs	
Running Noise:	60 dBA	

Utility Hook-ups

Hose / Cord	Length / Diameter	Max. Distance Distance from inlet / drain	Water Pressure (optimal)*	Shut-off valve
Hot inlet	1.9 m / 6.2 ft. 2 cm / 3/4"	1.5 m / 5 ft.	1-10 bar / 14.5-145 psi	Yes
Cold inlet	1.9 m / 6.2 ft. 2 cm / 3/4"	1.5 m / 5 ft.	1-10 bar / 14.5-145 psi	Yes
Drain	1.5 m / 5 ft. 2 cm / 3/4"	—	—	—
Electrical	1.8 m / 6 ft. AWG 18-3	—	—	—

* unit will function with water pressure down to 0.5 bar / 7 psi.

NOTE: If this unit is being installed in a location with 240V power supply and the hot water temperature is less than 50°C / 122°F, please attach the enclosed label to the front of the unit.



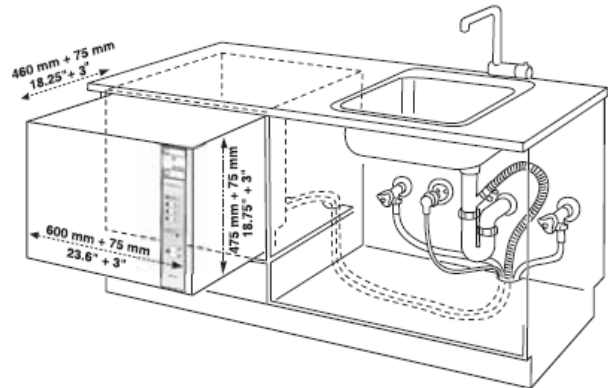
The electrical outlet should not be located directly behind the unit and should be accessible. The power cord must be routed away from the back panel and hot water inlet hose.

Proposed Installation Configurations:

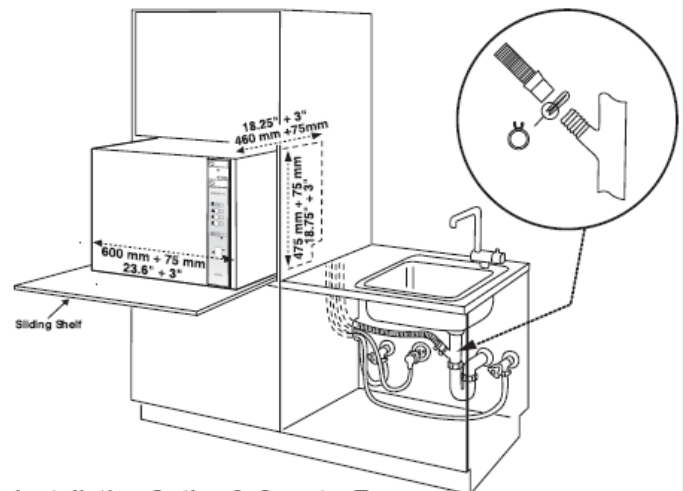
If the Hydrim is installed in a Sterilization Center, the manufacturer of the Sterilization Center should allow a 3" (75 mm) space at the top and sides of the Hydrim. This will facilitate installation, leveling, and service access to the Hydrim.

The cabinetry will need to be vented and allow the air exhaust from the dryer to escape. At least 3" / 75mm of space should be provided behind the rear panel. Do not move the Hydrim into place by maneuvering the open wash chamber door. This may cause the door to become misaligned and leak.

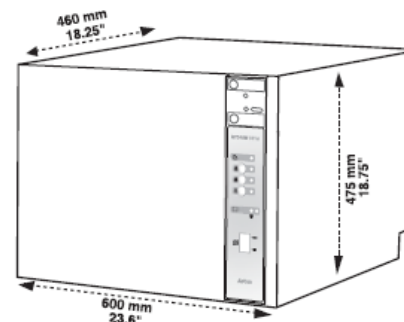
Installation Option 1. Cabinet / Steri Center



Installation Option 2. Sliding Shelf



Installation Option 3. Counter Top



Connecting the water inlet hoses:

Connect the hot water hose (red) to the hot inlet valve on the Hydrim (indicated by a red dot) and the cold water hose (blue) to the cold water inlet valve on the Hydrim (indicated by a blue dot).

The connector with the elbow should be attached to the back of the Hydrim unit. The washer with the screen goes to the water supply connector. Make sure that the inlet valves are free of debris.

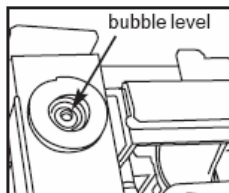
Drain requirements:

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 Hydrim. A floor drain is acceptable (check local codes).

Leveling the Hydrim:

For the unit to function properly, it will need to be correctly leveled. To level the unit, follow these steps:

1. Adjust the legs underneath the unit.
2. Use the leveling bubble on the top right hand side as a guide.
3. When the bubble is in the center, the unit is correctly leveled.



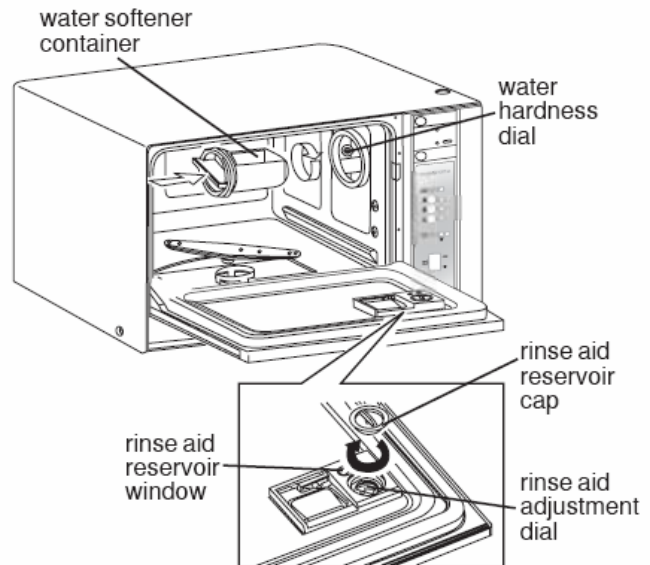
Testing water hardness and setting the water softener (salt):

Hydrim is equipped with a built-in water softening system which needs to be adjusted according to the local water hardness. The Hydrim water test kit includes 3 water hardness test strips in bags. Take a water sample from the location where the machine will be installed. Open one of the bags and remove the test strip. Dip the strip in the water. 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. Adjust the water hardness dial accordingly.

Hardness—ppm	Hydrim C51 setting
0 - 110	0
120 - 360	1
370 - 510	2
520 - 890*	3
> 890	Additional water treatment required

* consider using an additional water treatment

Pour 0.5 litre / 16 oz. of water into the water softener by pouring it into the salt container and inserting it into the chamber wall. Add 0.5 kg / 1.1 lbs. of water softening salt in the same manner. Screw the salt container tightly into the wall of the chamber.



Filling the rinse aid:

Add Stat-Dri Plus to the rinse-aid reservoir until the indicator is dark (reservoir holds 60 ml / 2 oz).

Installation Test:

Install the Hydrim Cleaning Solution bottle.



Turn on the shut-off valves. Run a test cycle, checking for leaks.

Additional Information:

- The Hydrim unit is heavy (34 kg / 75 lbs). Exercise caution when moving it.
- The Hydrim must be properly grounded.
- The Hydrim 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 13 ft. / 3.3 m.

SciCan

For all service and repair inquiries:

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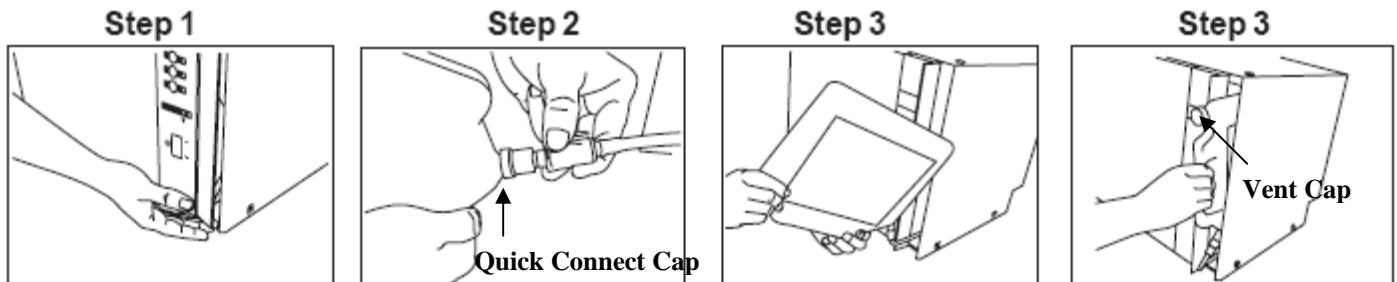
Water Testing, Softening Salt, & Cleaning Solution Installation

The Hydrim is equipped with a built-in water softening system, which needs to be adjusted according to local water hardness. The Hydrim water test kit (part #01-108305S) includes 3 water hardness test strips in bags. Take a water sample from the location where the machine will be installed. Open one of the bags and remove the test strip. Dip the strip in the water. Compare the color on 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. Adjust the water hardness dial accordingly.



Hardness – ppm	Hydrim C51 setting
0-110	0
120-360	1
370-510	2
520-890*	3
890>	Additional water treatment required
*Consider using an additional water treatment	

Install Hydrim Cleaning Solution bottle. Be sure quick connect cap on cleaning solution bottle is screwed tight before connecting the quick connect to the bottle.



Note: After bottle is installed loosen vent cap on bottle.

Leveling Hydrim

For the unit to function properly, it will need to be correctly leveled. To level the unit, follow these steps:

1. Adjust the legs underneath the unit.
2. Use the leveling bubble on the top right hand side as a guide.
3. When the bubble is in the center, the unit is correctly leveled.

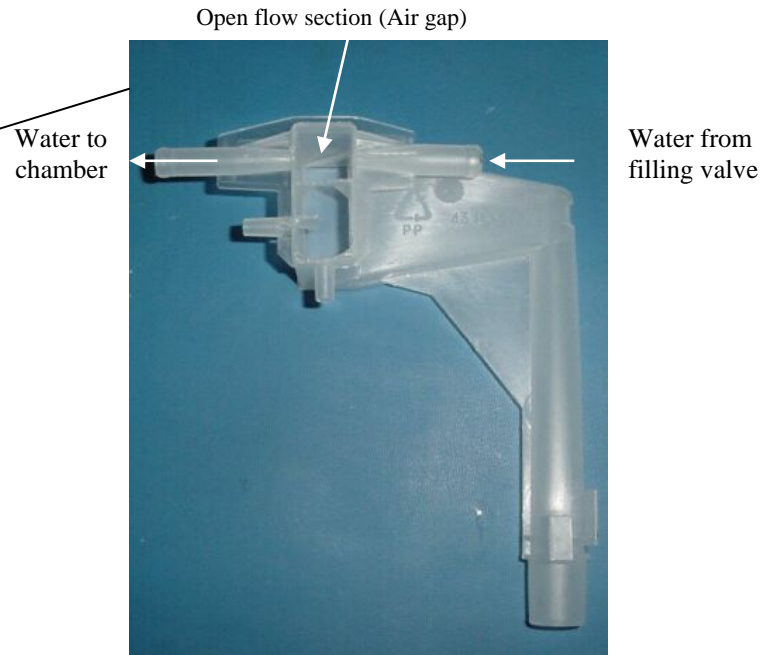
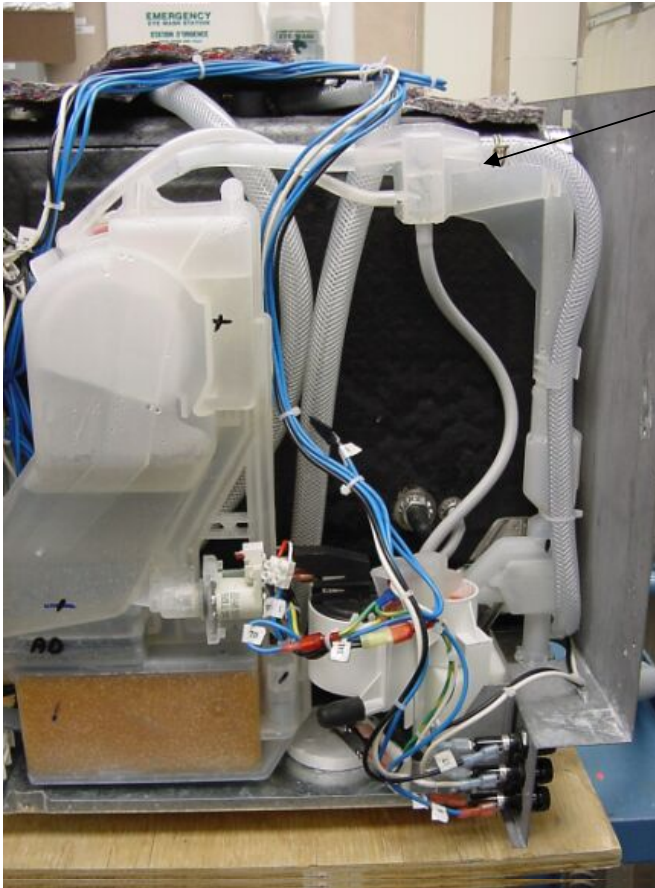


Backflow Protection

Description

Hydrim C51W has a built in air gap system to prevent backflow in the sewage system according to the International Plumbing Code, section 409.2. The water first flows from the filling valve over an open flow section (air gap, shown in figure below) into the water softening system and then to the chamber thus to prevent any possible cross-connection between the washer and the sewage system. Step by step filling system of the Hydrim C51w is explained below.

Operation



1. Water enters into the washer from water system through filling valve.
2. Then it flows into the air gap system with open flow section to prevent backflow. Water enters from first section of open flow section to another section in form of jet. Open flow section length is approximately 20mm. The water pressure must be at least 0.3 bars (4.4 psi) to flow over the open flow section.
3. From the open flow section the water enters into the softening system then into the chamber.

From the above it is clear that the Hydrim C51W filling system is safe and meets the International Plumbing Code requirements.

Fault Codes



E1-Error light flashes once pauses flash once pauses etc.

The chamber does not get hot enough.

1. Check hot water supply.
2. Check the lower recirculation pump is running.
3. Check the heater assembly.

E2-Error light flashes twice pause flashes twice pauses etc.

The chamber does not fill with water.

1. Check water inlet valves and filters.
2. Check chamber full pressure switch.
3. Check overflow switches.

E3-Error light flashes three times pauses flashes three times pauses etc.

The temperature is outside the expected range.

1. Check heater assembly.

E4-Error light flashes four times pauses flashes four times pauses etc.

The chamber does not drain.

1. Check drain hose.
2. Check drain pump.

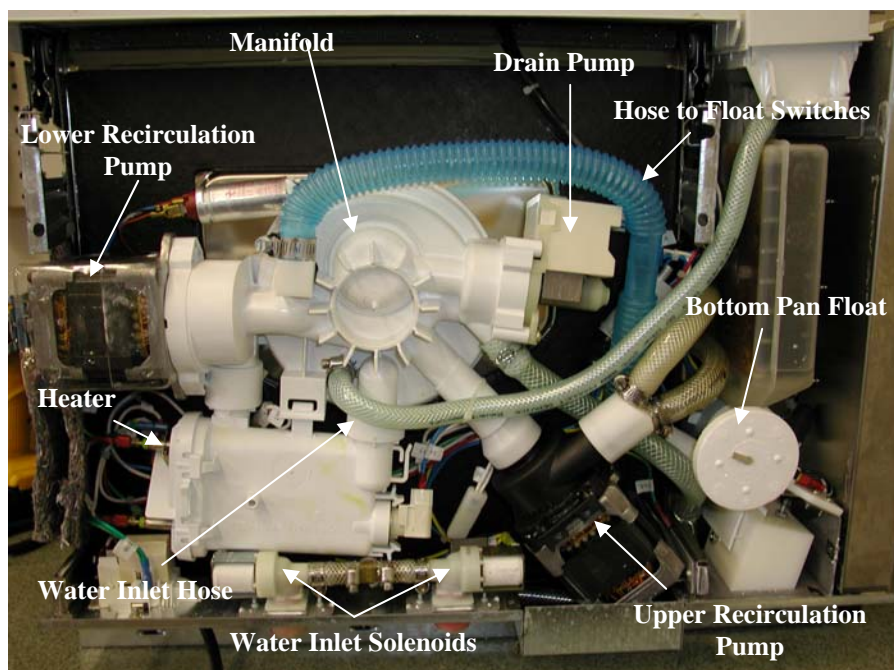
Sequence of Operation with Dryer

Regular & Heavy Duty Wash Cycles

The door must be closed for unit to turn on. There is a mechanical lockout between the door open button and power button. If the door is not closed properly the power button cannot be depressed. When the power button is depressed the power light comes on. **No pumps should be running at this time.** If there is no cleaning solution in the unit the low solution light will flash. Pressing either the regular or heavy-duty cycle button, top button regular wash approx. 18 minutes plus dry, middle button heavy-duty wash approx. 22 minutes plus dry. Cycle times depend on the temperature of the incoming water. At the start of every cycle the drain pump runs for approximately 10 seconds. This will remove any standing water in the manifold. When the drain pump shuts off the manifold and chamber will fill with cold water. Water flows from the cold water inlet solenoid through the anti-siphon waste stack to the water-softening reservoir and into the manifold. When the chamber full pressure switch activates the cold-water solenoid closes and the dosing pump runs for 3 seconds to add cleaning solution to the Prewash. The recirculation pumps run for 2 minutes to rinse the instruments. The unit is then drained and refilled with hot water. When the chamber full pressure switch activates the hot water solenoid shuts off and the dosing pump runs for 11 seconds. The recirculation pumps will then start running and when the water reaches the correct temperature 55°C/131°F the dosing pump will run for 12 seconds. The unit will then wash the instruments for 5 minutes for a regular cycle or 9 minutes for a heavy-duty cycle. When the wash time is complete the unit drains then fills with hot water. The recirculation pumps run for 1 minute. The unit then drains and refills with hot water again and the dosing pump runs for 7 seconds. The recirculation pumps turn on and when the water temperature reaches 60°C/140°F they continue running for 1 minute. The unit will then drain and the air dryer will turn on.

Rinse and Hold

Close the door and turn the power on. Press the rinse and hold button. If there is no cleaning solution in the unit the low solution light will flash. The drain pump runs for approximately 10 seconds. The cold-water solenoid will then open and fill the chamber with cold water. When the full pressure switch activates the cold-water solenoid shuts off and the recirculation pumps turn on for 3 minutes. The unit will then drain and refill with hot water. The dosing pump runs for 3 seconds. The recirculation pumps will turn on and when the water temperature reaches 50°C/122° they continue running for 1 minute. The unit will then drain and the cycle complete light will come on.



Cover Removal



Figure 1

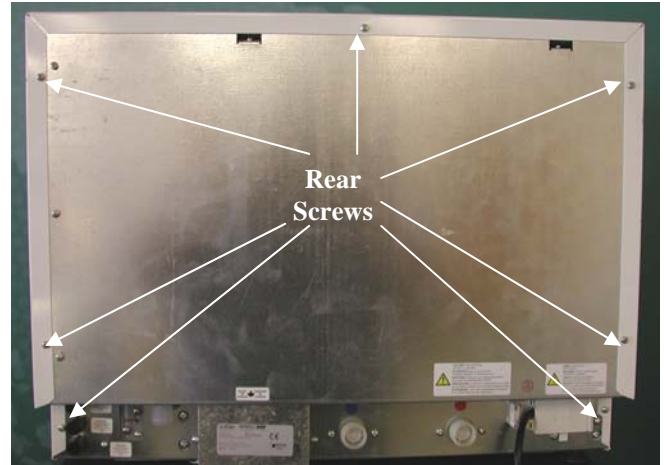
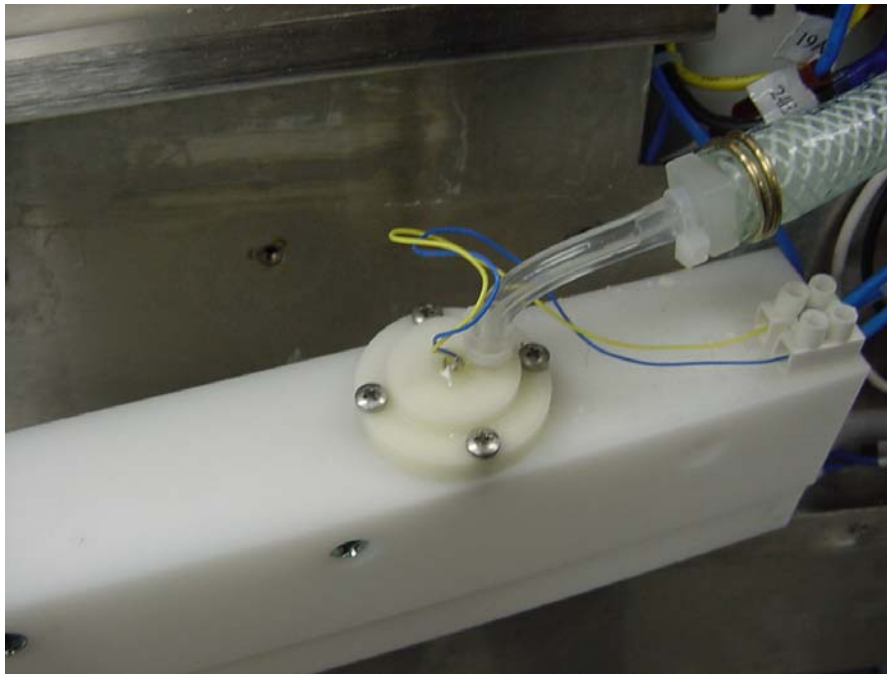


Figure 2

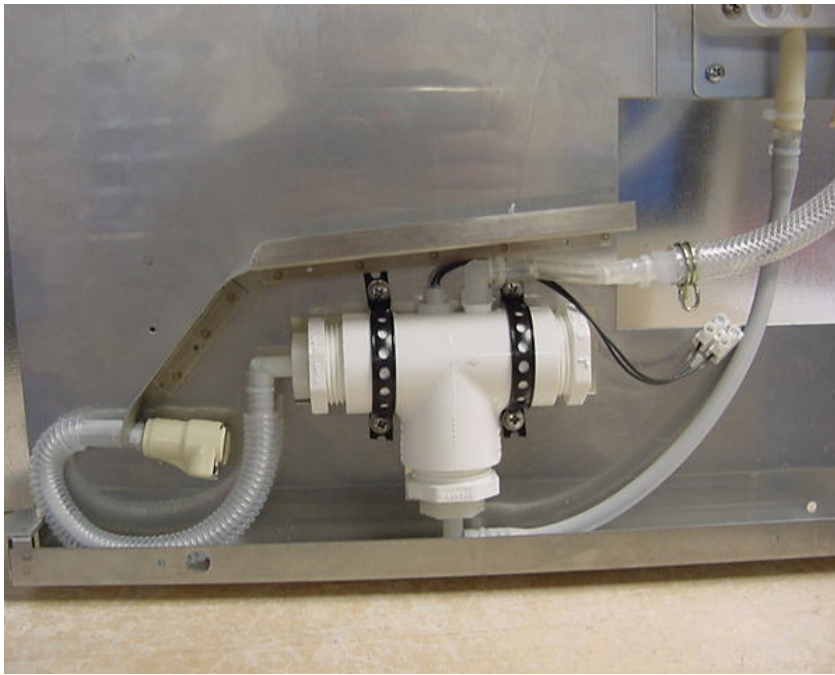
1. Power OFF the unit and disconnect the power cord.
2. Remove 2 screws and white caps on the right side of the cover.
3. Remove 2 screws and white caps on the left side of the cover.
4. Remove 6 Philips flat head machine screws on the inside front of the unit, 4 on the top, 2 on the left (figure 1).
5. Remove 7 Philips washer screws, in the rear of the unit, 1 on top, 3 on the right, 3 on the left (figure 2).
6. Gently pull out on the cover sides and lift.
7. Remove the insulation on the top and sides.

Dosing Reservoir (Serial #HxxxDFxxxx & Older)



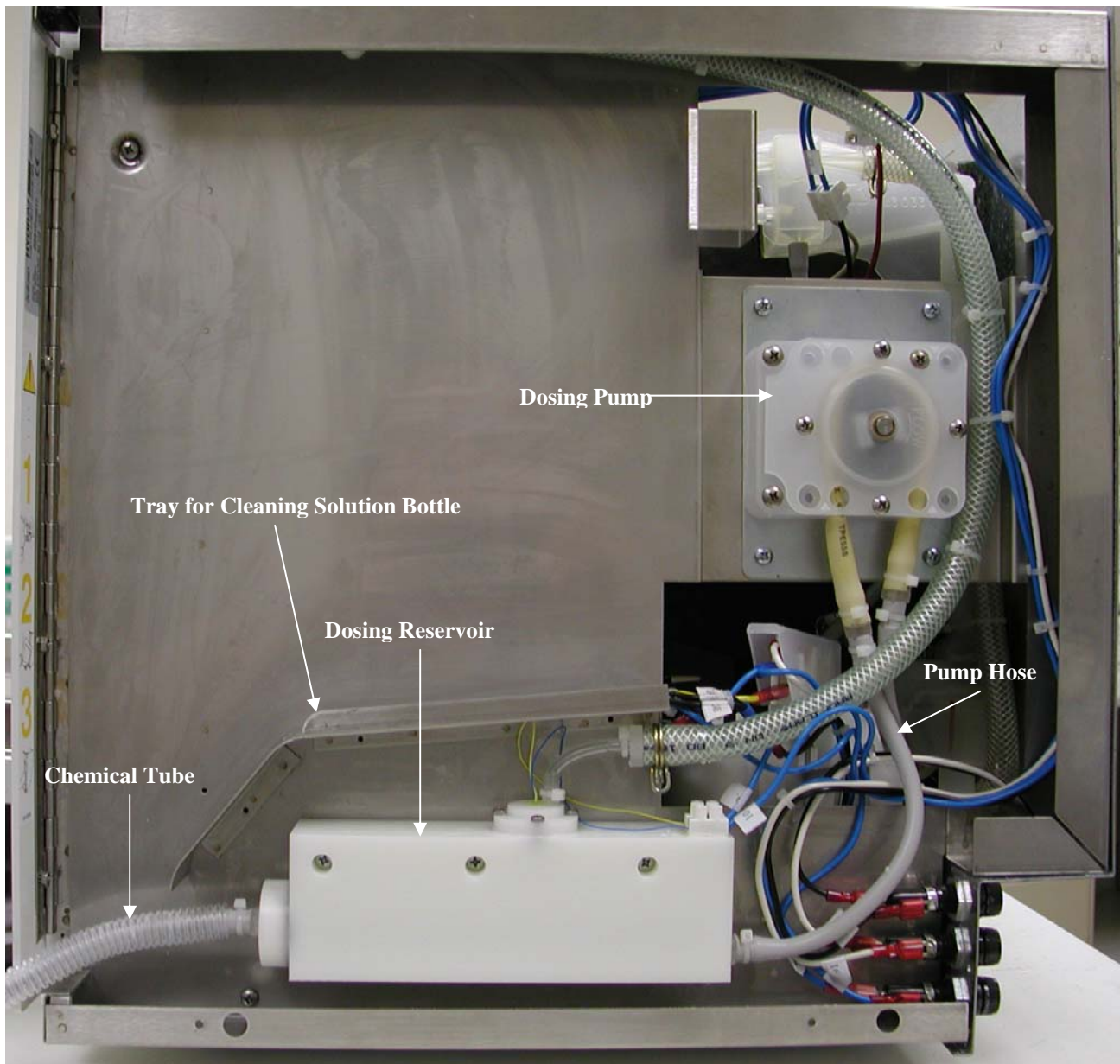
When the cleaning solution light starts flashing this is an indication that the cleaning solution bottle is empty. When the bottle is not empty check to make sure the bottle vent cap is loose. If the light still flashes, there may be a problem with the dosing reservoir. Disconnect the blue and yellow wires from the sensor, at the terminal block. Install a jumper wire where the wires were connected. If the solution light continues to flash you have a problem with the control module. If the solution light turns OFF when the jumper wire is installed the problem is with the dosing reservoir. Remove the 4 screws holding the sensor to the reservoir and remove the float from inside the hole. Connect an ohmmeter to the blue and yellow wires and touch the float to the bottom of the sensor. Your meter should read less than 1 ohm. If the reading is bad order a new dosing reservoir upgrade kit (part #01-109058S), if the reading is good replace the float (part #01-108351S) and flush the main block of the dosing reservoir.

Dosing Reservoir (HxxxDGxxxx & Newer)



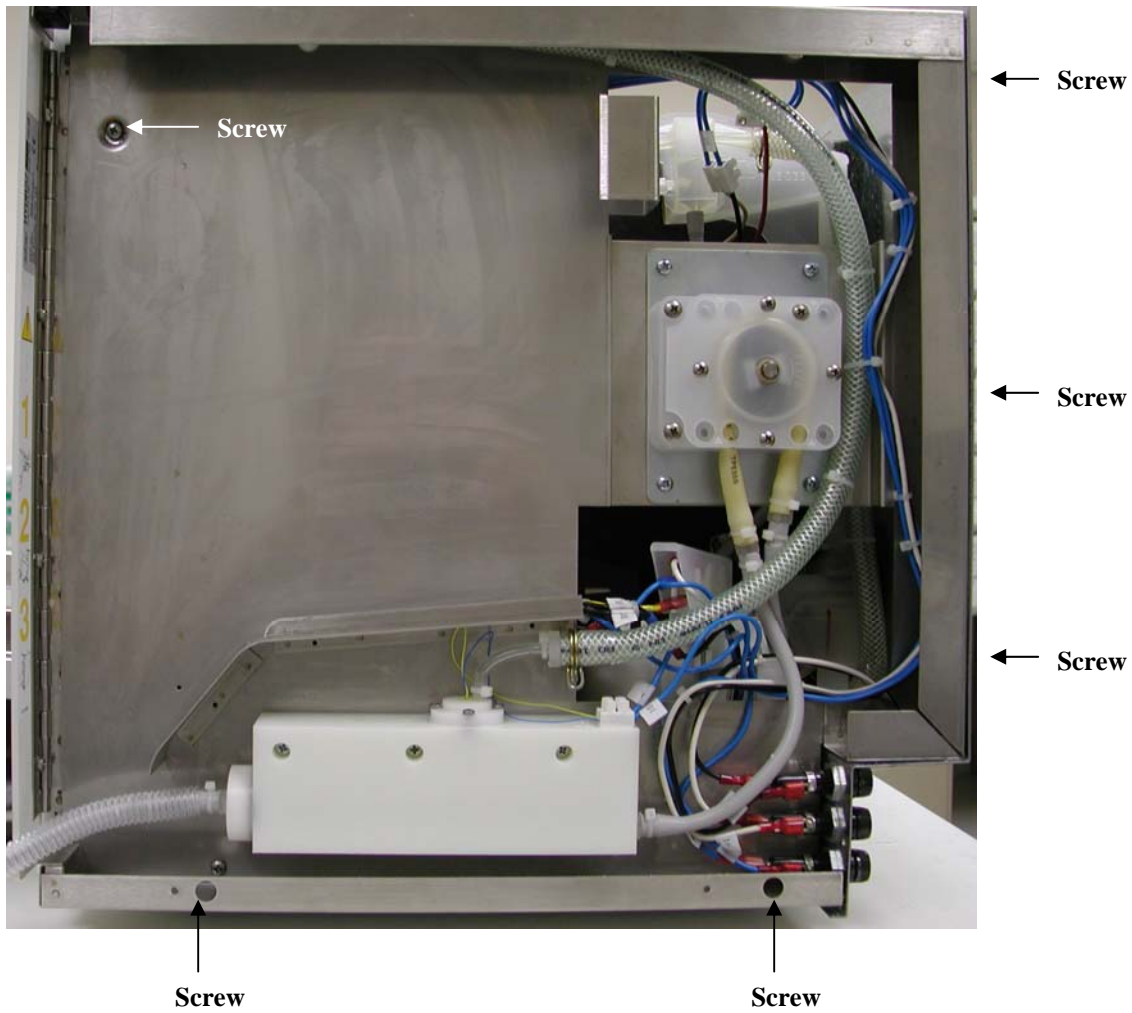
When the cleaning solution light starts flashing this is an indication that the cleaning solution bottle is empty. When the bottle is not empty check and make sure the bottle vent cap is loose. If the light still flashes, there may be a problem with the dosing reservoir. Disconnect the 2 black wires from the float switch, at the terminal block. Install a jumper wire where the wires were connected. If the solution light continues to flash you have a problem with the control module. If the solution light turns OFF when the jumper wire is installed the problem is with the dosing reservoir. Replace the dosing reservoir (part #01-108253S).

Dosing Pump & Reservoir Operation



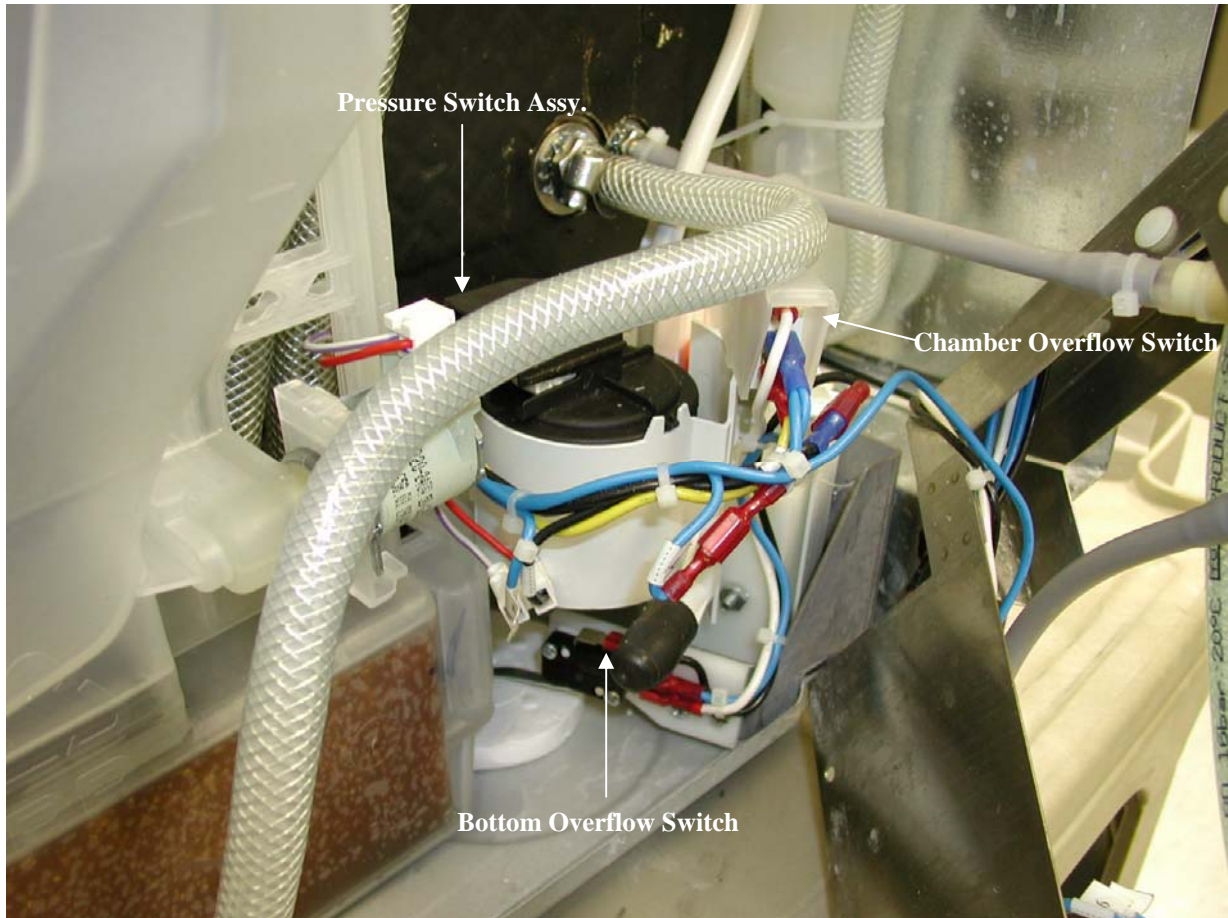
When the chamber full switch activates and the water temperature reaches 45°C the dosing pump turns ON and runs for 31 seconds. The dosing pump is a peristaltic pump and it draws solution from the dosing reservoir through the pump hose into the chamber.

Panel Removal to Access Microswitches



The Hydrim C51W has 3 microswitches, which control the recirculation pumps and the drain pump. They are located on the right side of the unit behind the panel, which holds the cleaning solution bottle. To remove the panel there is one screw in the upper left corner, 2 screws along the bottom and 3 screws in the back.

Microswitches Location & Operation



Pressure Switch Assembly-When the chamber is full of water the pressure switch will activate.

Chamber Overflow Switch- If the chamber over fills the chamber overflow switch will activate and turn ON the drain pump.

Bottom Overflow Switch-If the unit leaks and the bottom tray fills with water the bottom overflow switch will activate and turn ON the drain pump.

Kickplate Removal & Checking Bottom Pan for Water

Open chamber door

Insert small straight-slot screwdriver under bottom left side of door open switch (Figure 1).

Lift up gently and remove door open actuator.



Figure 1



Figure 2

Push down on tab under down open actuator and pull out the top of the control panel facia (Figure 2).

When the top of the facia is pulled out push down gently to disconnect bottom of facia (Figure 3).



Figure 3



Figure 4

Remove four Torx 20 screws from inside down frame (Figure 4).

Start to close the door and pull out on the bottom of the door facia. Lift door facia up to release from top.

Caution: Metal edges of door are very sharp use care when lifting door facia.

Remove insulation under door facia.



Figure 5

Remove two Torx 20 screws from Kickplate and remove Kickplate (Figure 5)

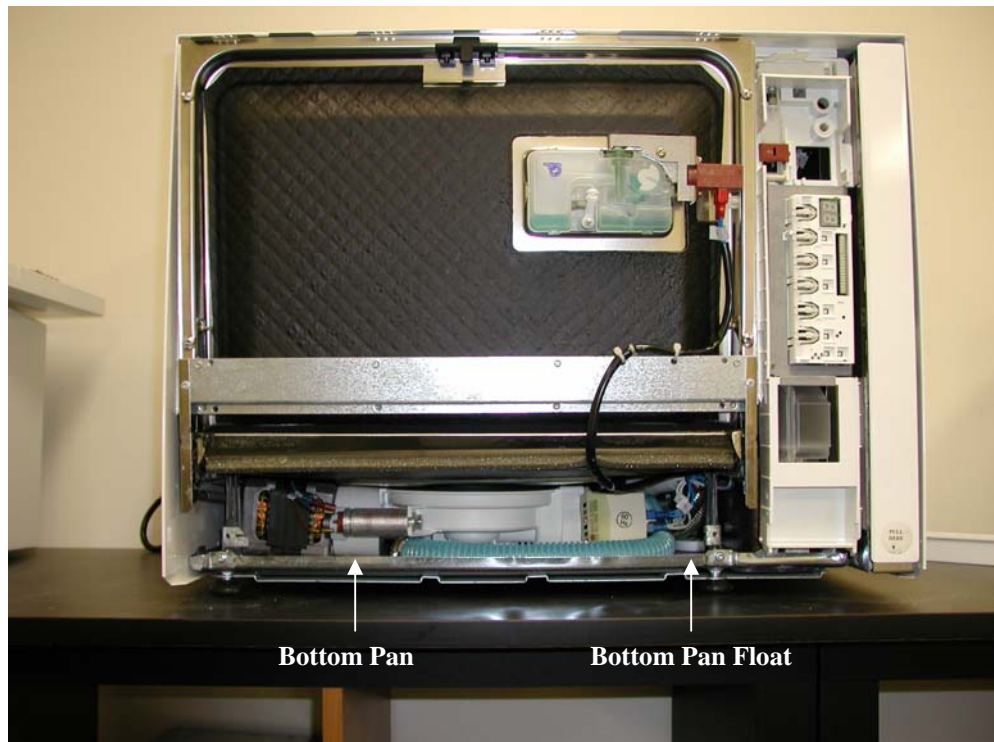
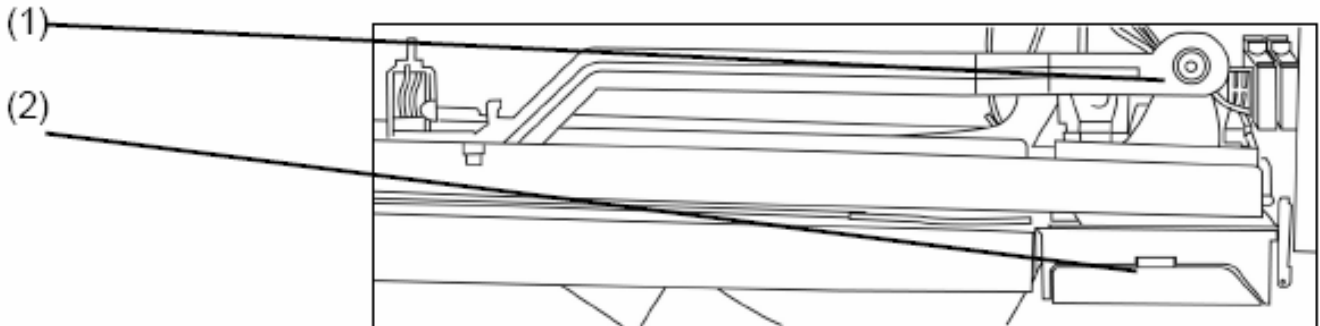


Figure 6

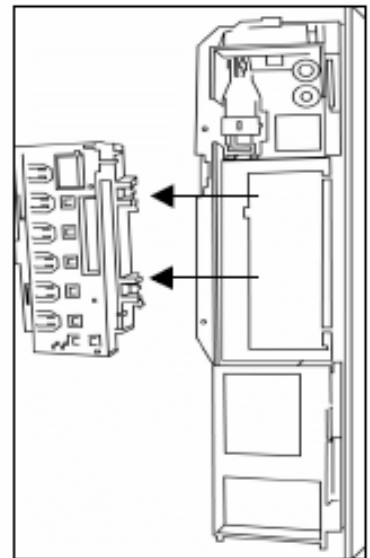
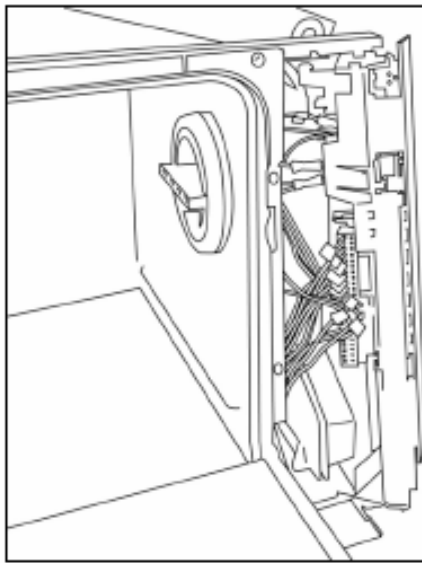
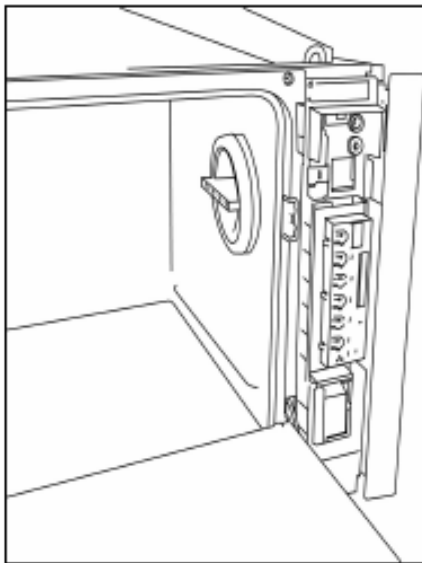
Check bottom pan for water (Figure 6).

Controller Replacement

1. Turn the unit off and unplug from the wall outlet.
2. Remove the cleaning solution container, the top cover and the chemical bracket.
3. Disconnect the door interlock (1). Top view of unit without cover.

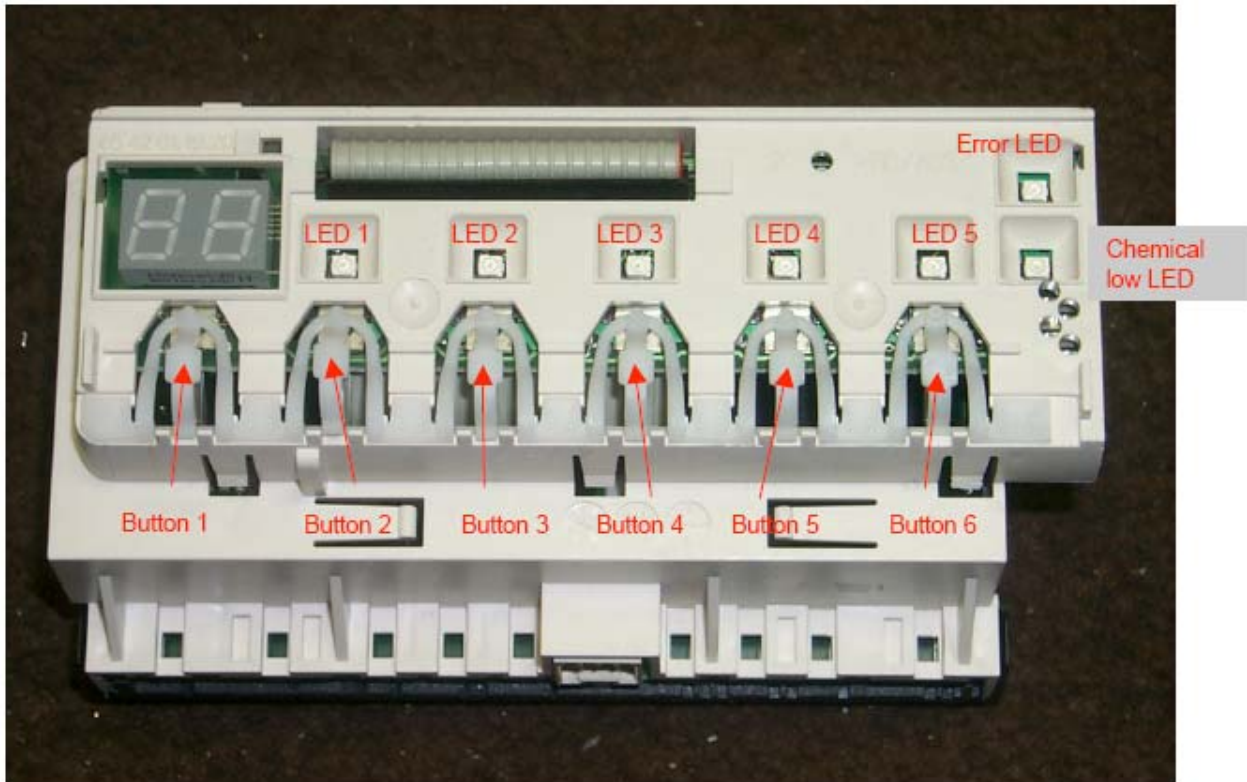


4. Open the door.
5. Remove the control panel facia by inserting a flat head screwdriver into (2).
6. Remove the two Phillips machine screws from the front of the unit, and the Plastite screw from inside the door on the controller side.
7. Remove the controller from the unit.



8. Remove the wiring harness from the back of the controller.
9. Pop the controller out of the bracket.
10. Insert the new controller making sure that all four corner tabs snapped into place.
11. Replace all parts in reverse order.

Hydrim C51W without Dryer Checking & Programming Software Version 1.11



The Hydrim C51W software has been upgraded to allow for use of the HIP Hydrim Cleaning Solution with enhanced instrument protection properties. The HIP solution is dosed differently than previous Hydrim Cleaning Solutions. The new software allows you to select between the dosing required for the original system and the dosing required for the HIP solution (see Dosing Settings Table below).

By pressing various combinations of buttons, it is possible to enter special cycles. To use these cycles, hold the two buttons indicated and power the unit on.

1. The controller consists of six buttons. Buttons 3, 4 and 5 are used to start the programs (Regular Wash, Heavy Duty Wash, Rinse & Hold). If a program is interrupted and the unit is powered off, when the unit is powered on, if no cycle button is pressed within 10 seconds the previous interrupted cycle should restart.
2. By pressing buttons 5 and 6 when the unit is powered on the unit enters setup mode. By pressing button 3 the user can select among:
 - i. **“software revision”**: the first digit will display “r” followed by the first digit of the revision number and then the last two digits. (For example if the revision is 1.10 then it will display r1 followed by 10).
 - ii. **“cycle count”**: the display will show “cc” followed by the first two digits of the cycle counter and then the last two digits. (For example if the cycle count is 1234 then it will display cc, followed by 12, followed by 34).
 - iii. **“last error”**: the display will show the last error “Ex” (where x is the error number).

- iv. **“wash dosing setting”**: the display will show “c2” followed by the dosing setting. Selection of setting 0 or 1 can be made with button 1. Setting 0 is for HIP solution. **If setting 1 (non HIP solution) is selected “prewash dosing setting” and “rinse dosing setting” will not be available. When button 3 is pressed unit will go directly to test mode.**
- v. **“prewash dosing setting”**: the display will show “c1” followed by the dosing setting. Selection of 0, 1 or 2 can be made with button 1. Setting 1 is the default value for HIP solution. **If “wash dosing setting” is set to 1 (non HIP solution) this setting is not available.**
- vi. **“rinse dosing setting”**: the display will show “c3” followed by the dosing setting. Selection of 0, 1, 2 or 3 can be made with button 1. Setting is 2 is the default value for HIP solution. **If “wash dosing setting” is set to 1 (non HIP solution) this setting is not available.**

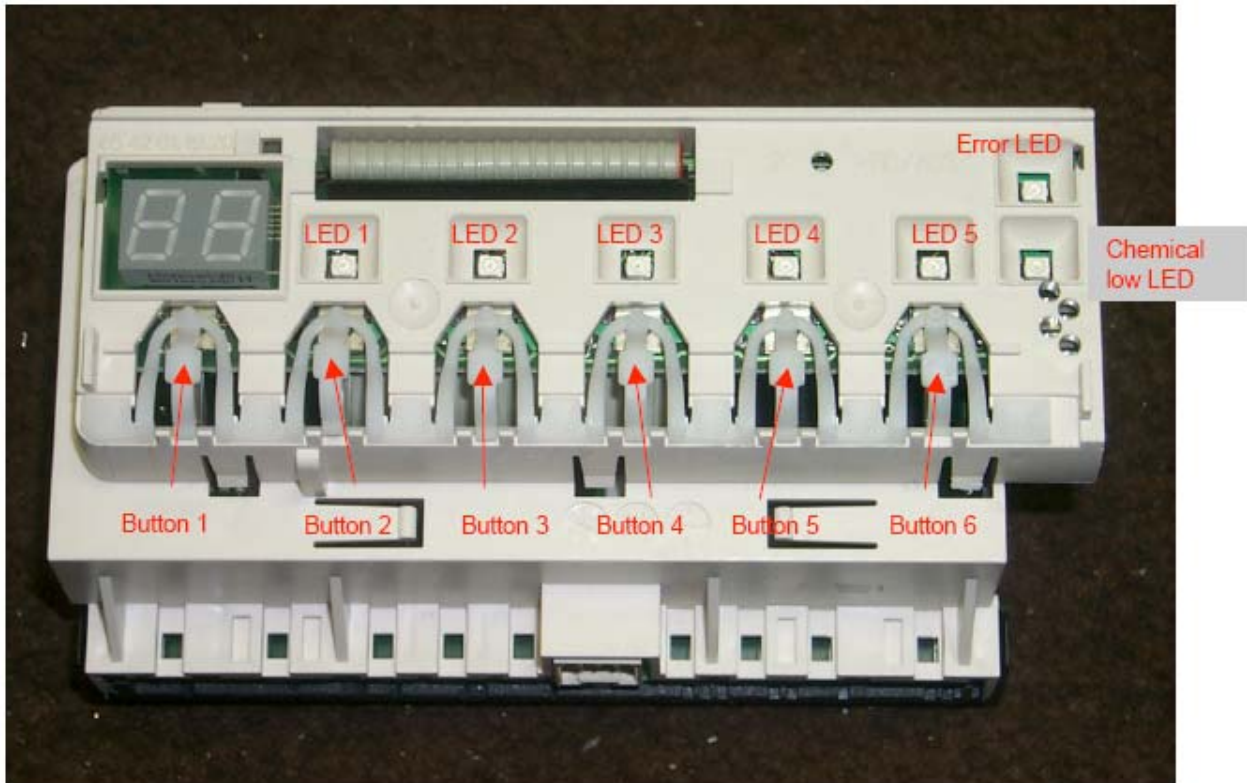
Dosing Settings Table

Setting	Regular or pH neutral HCS chemical	HIP chemical
Wash setting “c2”	1	0
Prewash setting “c1”	N/A	1
Rinse setting “c3”	N/A	2

Note: Do not use settings other than those shown without consulting the SciCan service department.

- vii. **“test mode”**: the display will show “tx” (where x is the test number). Selection of test number can be made with button 1 (up) or button 2 (down). To start the selected test, press button 3. To move to ix select “t0”.
 1. Starts cold water valve for 10 seconds.
 2. Starts hot water valve for 10 seconds.
 3. Starts dosing pump for 33 seconds.
 4. Starts rinse aid valve for 30 seconds.
 5. Starts regeneration valve for 30 seconds.
 6. Starts circulation pumps for 30 seconds.
 7. Starts drain pump for 30 seconds.
 8. Starts dryer motor for 30 seconds and dryer heater for 20 seconds.
- ix. **“EEPROM reset”**: Pressing button 1 will reset EEPROM values to the default ones. Pressing buttons 1 & 2 will reset cycle counter.

Hydrim C51W with Dryer Checking & Programming Software Version 2.02



By pressing various combinations of buttons, it is possible to enter special cycles. To use these cycles, hold the two buttons indicated and power the unit on.

1. The keyboard consists of six buttons. Buttons 3, 4 and 5 are used to start programs 1, 2 and 3. Whenever a program is interrupted and the unit is powered off, when the unit is powered on, if no cycle button is pressed within 10 seconds the previous interrupted cycle should restart.
2. By pressing buttons 5 and 6 when the unit is powered on the unit enters setup mode. By pressing button 3 the user can select among:
 - i. **“software revision”**: the first digit will display “r” followed by the first digit of the revision number and then the last two digits. (For example if the revision is 102 then it will display r1 followed by 02).
 - ii. **“cycle count”**: the display will show “cc” followed by the first two digits of the cycle counter and then the last two digits. (For example if the cycle count is 1234 then it will display cc, followed by 12, followed by 34).
 - iii. **“last error”**: the display will show the last error “Ex” (where x is the error number).
 - iv. **“drying time”**: the display shows “dt” followed by the actual value of the drying time. Adjustment from 0 to 20 minutes can be made with button 1 (down) and button 2 (up).

- v. **“wash dosing setting”**: the display will show “c2” followed by the dosing setting. Selection of setting 0 or 1 can be made with button 1. Setting 0 is for HIP solution. **If setting 1 (non HIP solution) is selected “prewash dosing setting” and “rinse dosing setting” will not be available. When button 3 is pressed unit will go directly to test mode.**
- vi. **“prewash dosing setting”**: the display will show “c1” followed by the dosing setting. Selection of 0, 1 or 2 can be made with button 1. Setting 1 is the default value for HIP solution. **If “wash dosing setting” is set to 1 (non HIP solution) this setting is not available.**
- vii. **“rinse dosing setting”**: the display will show “c3” followed by the dosing setting. Selection of 0, 1, 2 or 3 can be made with button 1. Setting is 2 is the default value for HIP solution. **If “wash dosing setting” is set to 1 (non HIP solution) this setting is not available.**

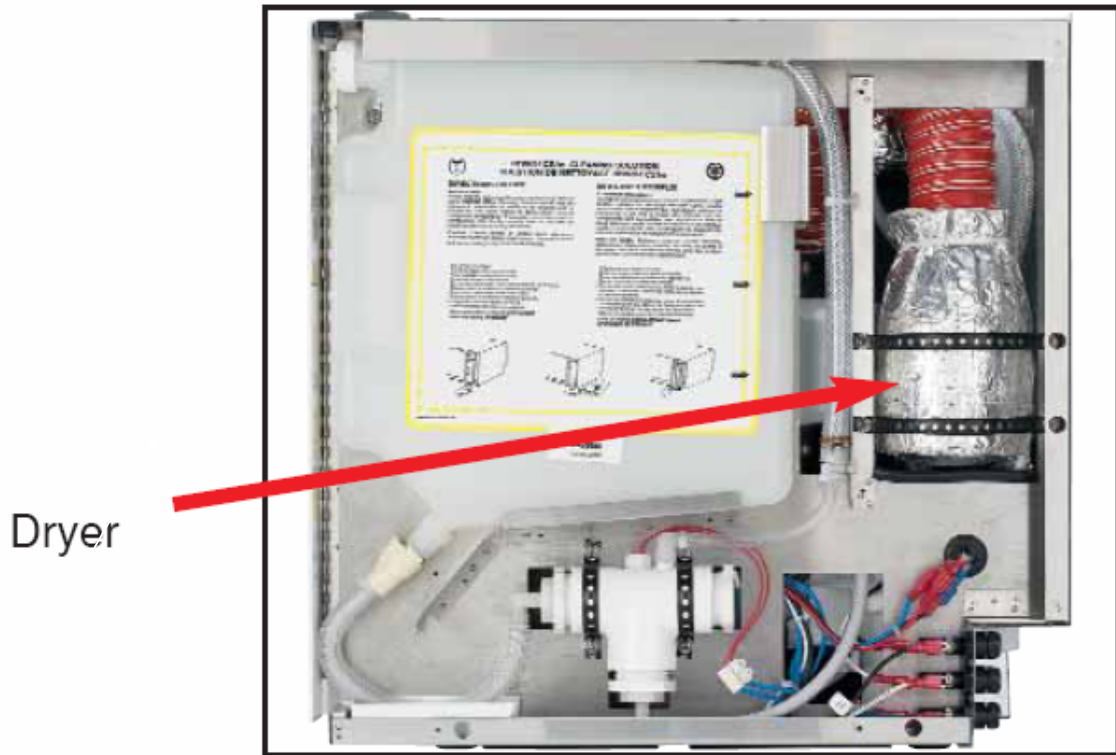
Dosing Settings Table

Setting	Regular or pH neutral HCS chemical	HIP chemical
Wash setting “c2”	1	0
Prewash setting “c1”	N/A	1
Rinse setting “c3”	N/A	2

- viii. **“test mode”**: the display will show “tx” (where x is the test number). Selection of test number can be made with button 1 (up) or button 2 (down). To start the selected test, press button 3. To move to ix select “t0”.
 1. Starts cold water valve for 10 seconds.
 2. Starts hot water valve for 10 seconds.
 3. Starts dosing pump for 33 seconds.
 4. Starts rinse aid valve for 30 seconds.
 5. Starts regeneration valve for 30 seconds.
 6. Starts circulation pumps for 30 seconds.
 7. Starts drain pump for 30 seconds.
 8. Starts dryer motor for 30 seconds and dryer heater for 20 seconds.
- ix. **“EEPROM reset”**: Pressing button 1 will reset EEPROM values to the default ones. Pressing buttons 1 & 2 will reset cycle counter.

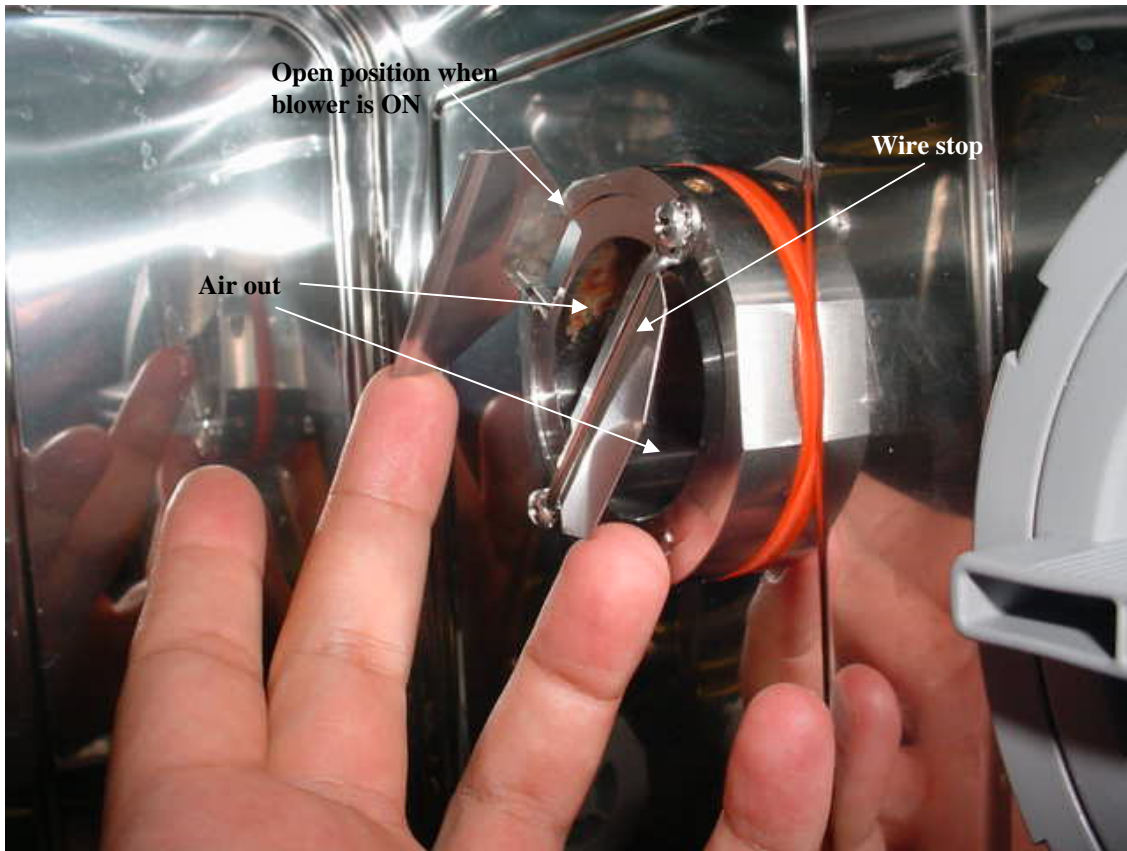
Hydrim C51 with Dryer Location & Air Flow

Drying is added at the end of the cycle and will start automatically. Drying time is factory set at 10 minutes, and can be adjusted from 0 to 20 minutes.



The non-return feature is built in the air inlet where two pivoted flaps keep the air entry point closed all the time. When the blower is turned ON, the air pressure opens the flaps allowing the air to flow in. The angle of opening and the flap position and orientation direct the airflow so it covers the entire chamber, for even drying in all areas.

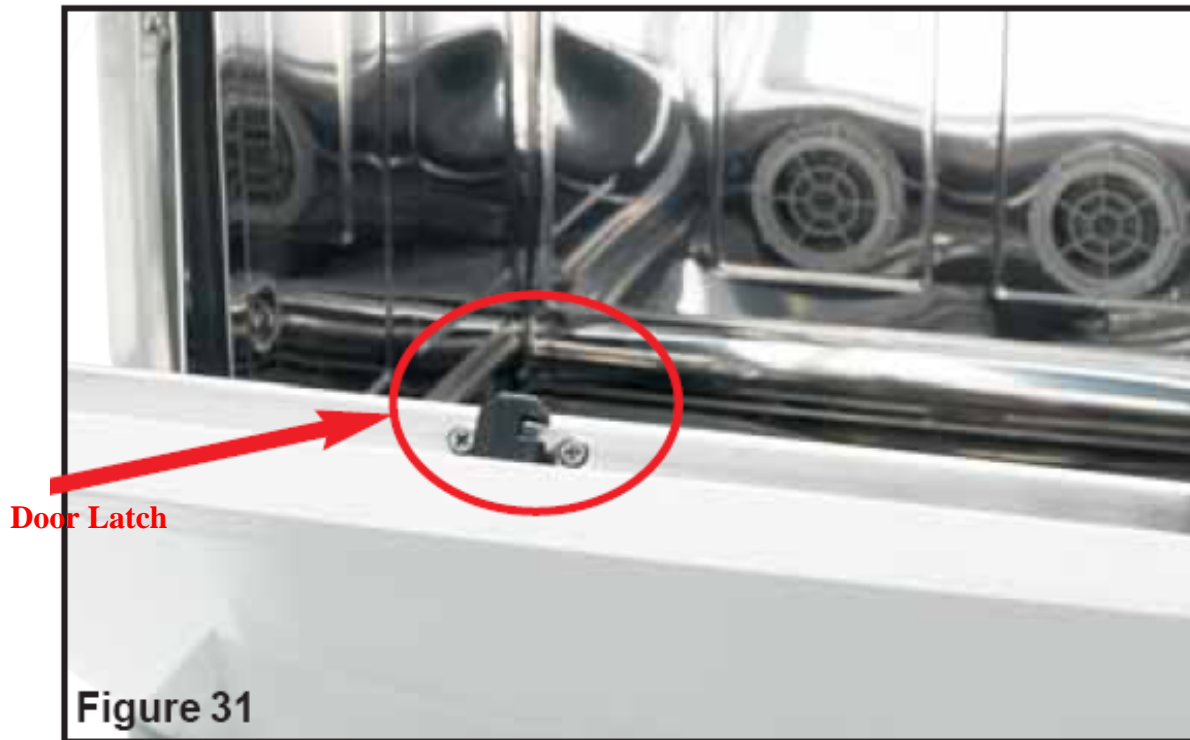




The flaps are opened under the air pressure. The wire across stops the lower flap, determining the airflow direction. The upper flap is completely open. The inlet is also mounted angled to direct the flow to the bottom-front part of the chamber

Water Leaking from Door during Cycle

1. Make sure unit is level.
2. Check adjustment on door latch. Loosen two screws and slide the door latch in or out to adjust.



Removing Water from the Hydrim C51w Prior to Servicing

When conducting service or repairs on the Hydrim C51w, the unit will need to be turned upside down. Prior to doing this, water should be removed from the unit as follows:



Use a syringe and some flexible tubing to suck the water out from the area under the filters.



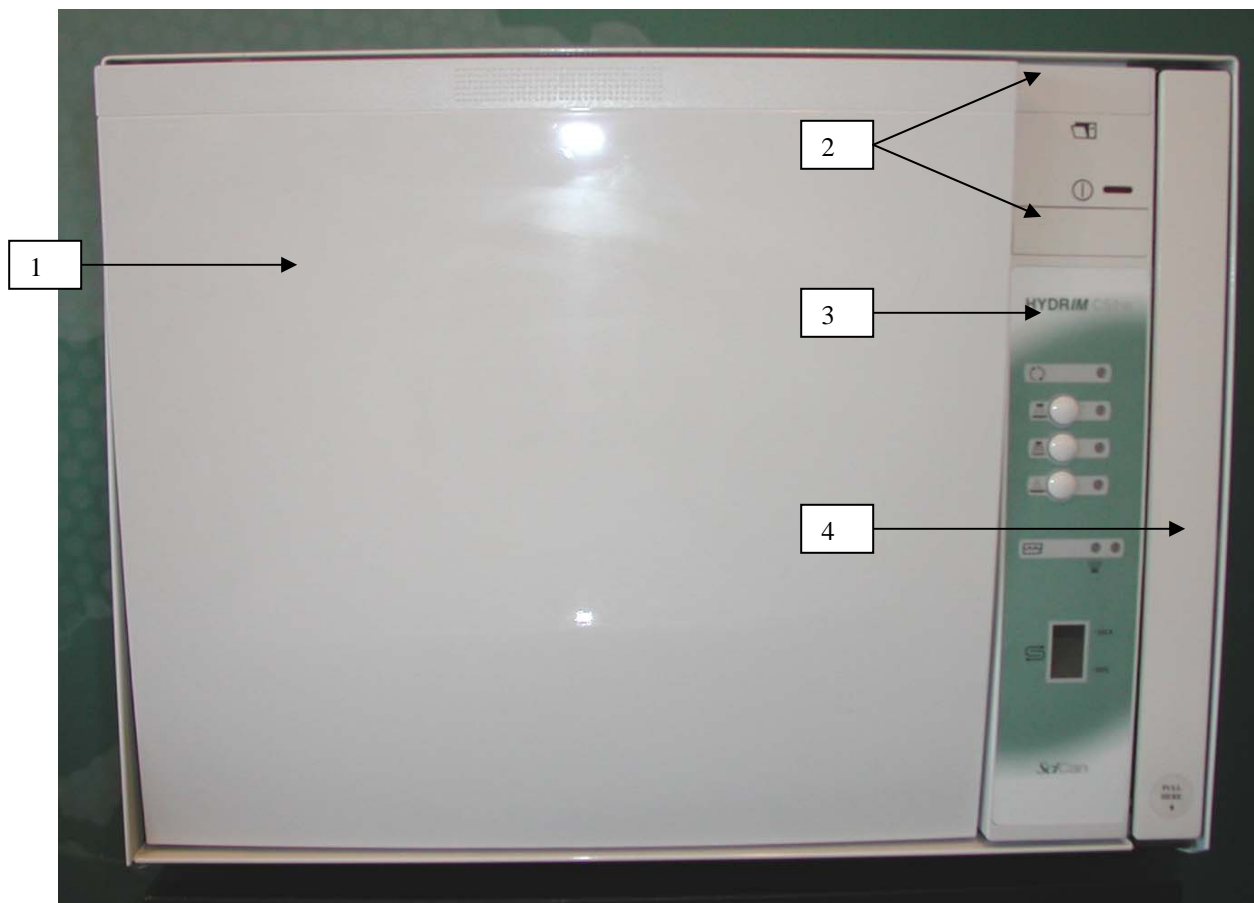
Remove the salt container. Use the same procedure as above to remove the water from the salt reservoir.



Remove a cap from a Hydrim cleaning solution bottle and attach it to the quick connect fitting. Use a syringe to suction the cleaning solution from the dosing reservoir. This should remove most of the water that is in the unit.

Note: Central suction may be used in place of a syringe if available.

Parts Front View Door Closed



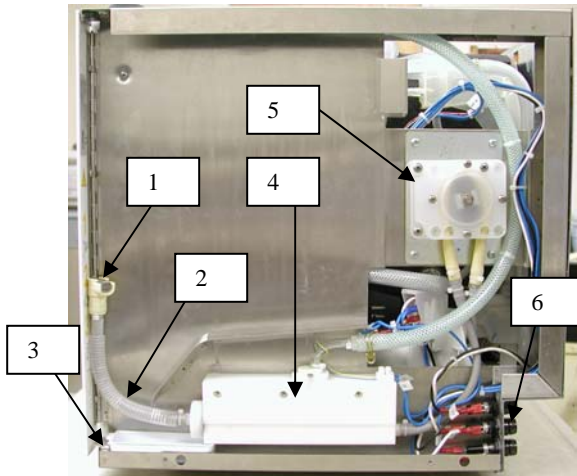
Item #	Part #	Description
1	01-107974S	Door Facia
2	01-108790S	Door Actuator Kit
3	01-108917S	Facia Control Panel
3	01-109147S	Facia Control Panel w/Dryer (HD01FK0001 & newer)
4	01-107935S	Chemical Door w/Hinge (HD01BJ0000 & newer)
Not Pictured	01-108924S	Screw Kit (Cover Screws)

Parts Front View Door Open

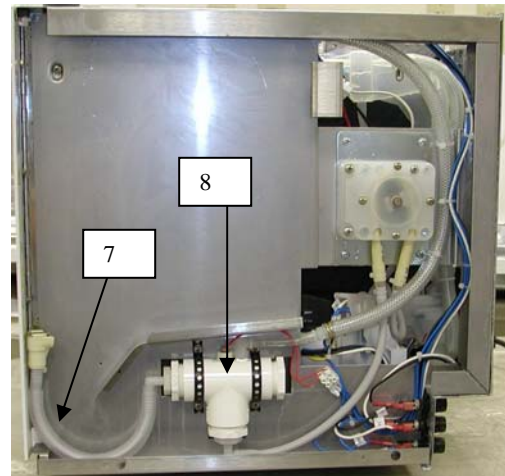


Item #	Part #	Description
1	01-107805S	Wash Arm Upper
2	01-108154S	Plug Upper Arm
3	01-107786S	Seal Door
4	01-107804S	Wash Arm Lower
5	01-107806S	Drain Screen
6	01-107812S	Door Latch
7	01-107935S	Chemical Door New Style (HD01BJ0000 & newer)
Not Pictured	01-108090S	Seal Kit Door Bottom
Not Pictured	01-107807S	Drain Filter

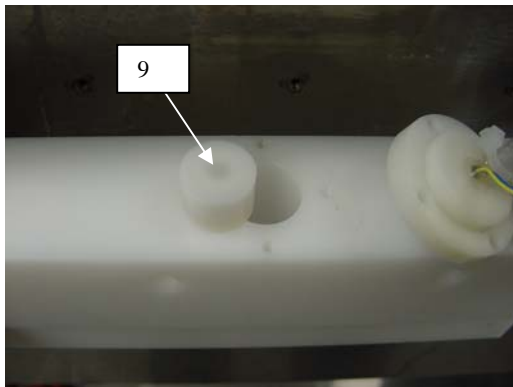
Parts Right Side without Dryer



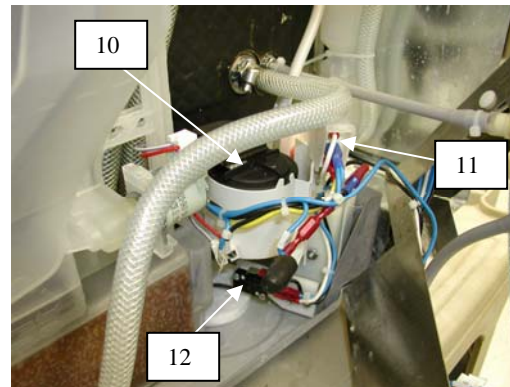
HD01DF9999 & Older



HD01DG0001 to HD01FJ9999



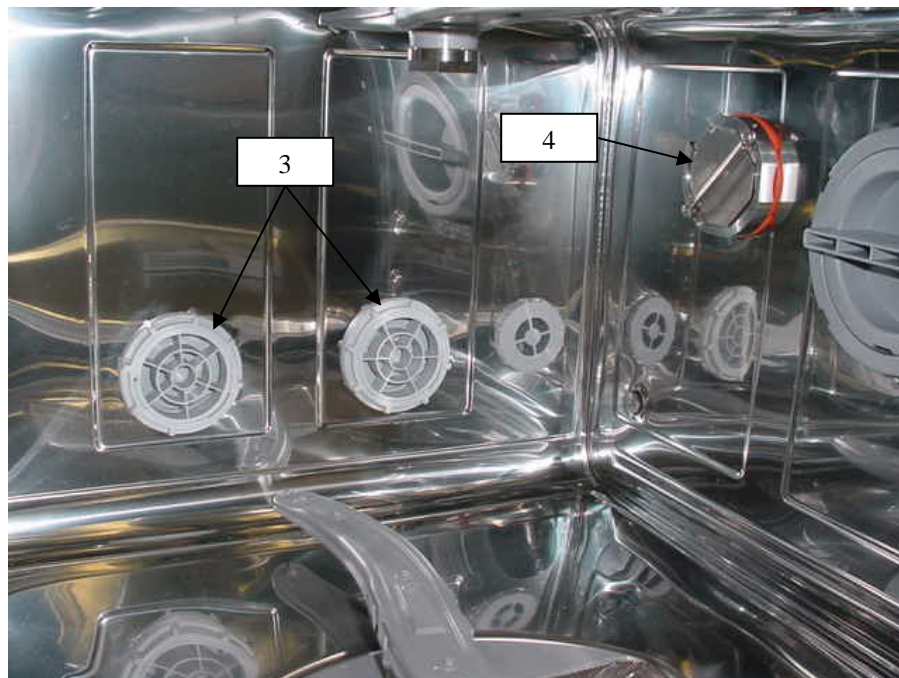
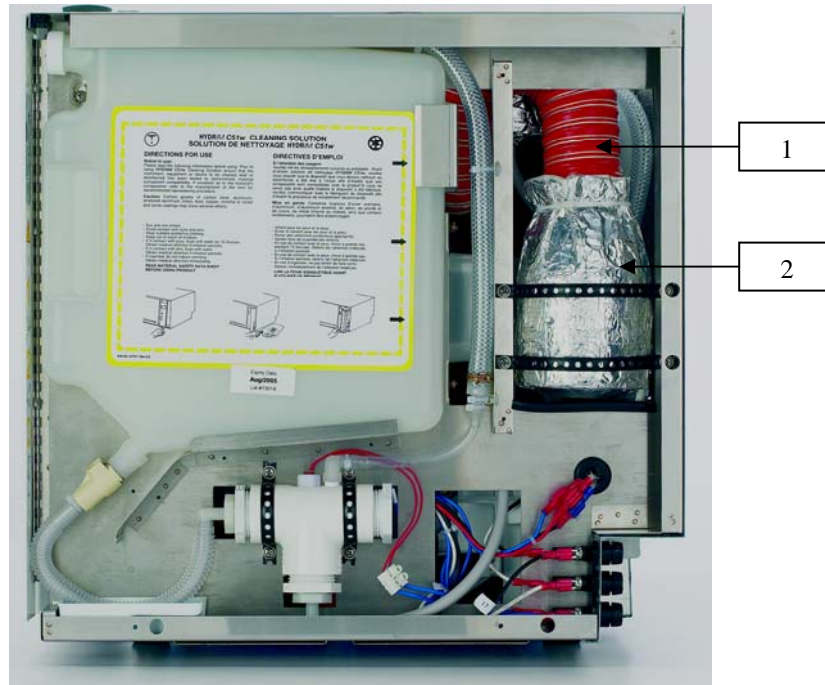
Old Style Dosing Reservoir



View Behind Right Side Panel

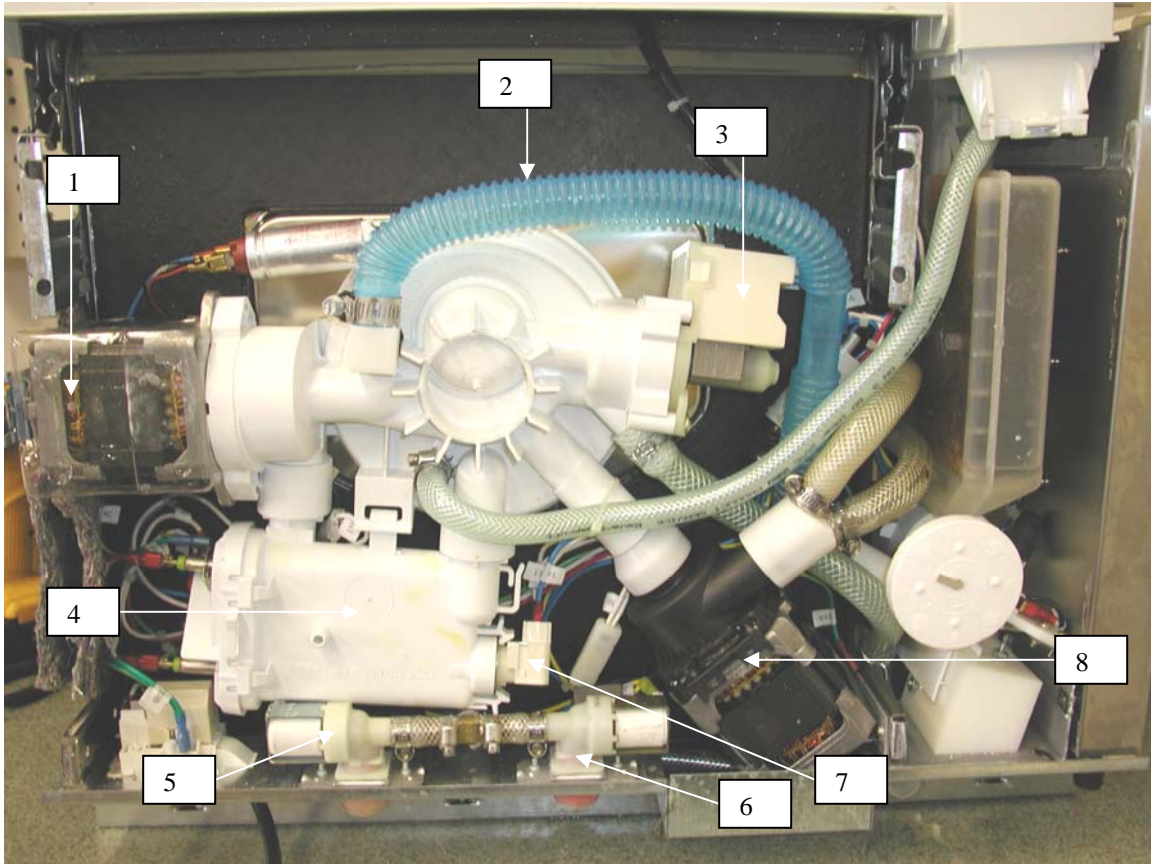
Item #	Part #	Description
1	01-108030S	Quick Connect Female
2	01-108031S	Tube Chemical (HD01DF9999 & older)
3	01-108122S	Drip Tray
4	01-109058S	Dosing Reservoir Upgrade Kit (Old Style Reservoir not available must upgrade)
5	01-107790S	Dosing Pump
6	01-108700S	Fuse Holders (Pkg. 3)
7	01-108699S	Tube Chemical (HD01DG0001 & newer)
8	01-108253S	Dosing Reservoir New Style
9	01-108351S	Float Dosing Reservoir
10	01-107938S	Switch Pressure Assembly
11	01-107803S	Switch Overflow Chamber
12	01-107937S	Switch Overflow Bottom
Not Pictured	01-107800S	Fuse 10 Amp (Pkg. 10)
Not Pictured	01-107799S	Fuse 2 Amp (Pkg. 5)
Not Pictured	01-109142S	Dryer (FK & after)

**Right Side View & Inside Chamber with Dryer
HD01FK0001 & Newer**



Item #	Part #	Description
1	01-109143S	Dryer Tubing
2	01-109142S	Dryer Assembly
3	01-109145S	Dryer Vent Assembly
4	01-109144S	Dryer Fitting

Parts Bottom



Item #	Part #	Description
1	01-107794S	Pump Recirculation Lower Arm
2	01-108701S	Tubing (blue) Chamber
3	01-107797S	Pump Drain
4	01-107808S	Water Heater
5	01-107815S	Valve Hot Water
6	01-107801S	Valve Cold Water
7	01-107809S	Thermostat Heater NC Sensor
8	01-107795S	Pump Recirculation Upper Arm

Hydrim C51w Spare Parts Update

06-TSB-230

Please be advised of the new Hydrim C51w spare parts.

The Impellers (items # 4&5) have been set-up separately due to cost concerns of changing circulation pumps. The Y-fittings have been upgraded and are now made of stainless steel. The part numbers for the items have remained the same.



1. Stainless Steel Fitting For Y's
p/n 01-109590S (Package of 2)



2. Y-Fitting, Upper Arm Pump
p/n 01-109303S



3. Y- Fitting, Upper Arm
p/n 01-108702S



4. Impeller - Upper
p/n 01-109447S



5. Impeller - lower
p/n 01-109448S