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SciCan

HYDRIM® C61wd G4

INSTRUMENT WASHER-DISINFECTOR

- Operator's Manual
- Benutzerhandbuch - USB
- Manual de uso - USB
- Manuale operatore - USB
- Manuel de l'utilisateur - USB
- Руководство пользователя - USB
- Інструкція користувача - USB
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- Εγχειρίδιο Χειριστή - USB



ISO15883 HYDRIM C61wd Fully Compliant

95-113561 EU EN R12 HYDRIM C61wd G4 Operator's Manual
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USB

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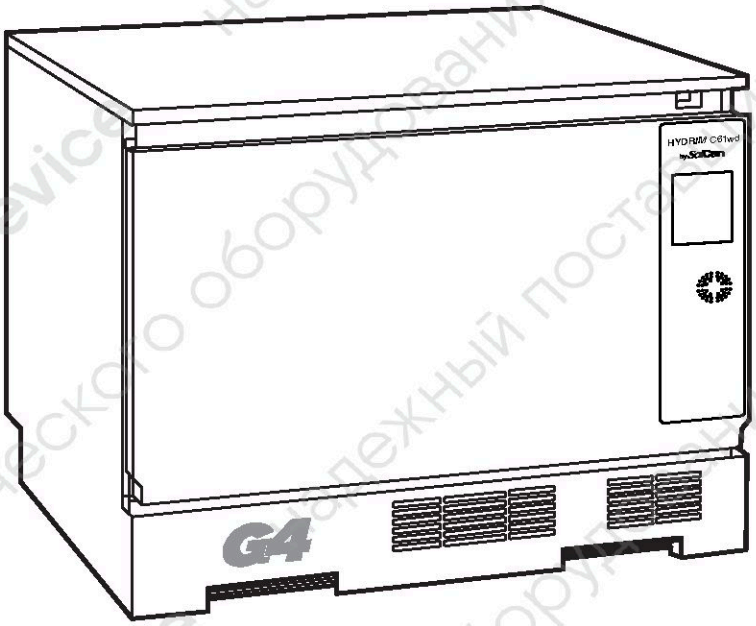
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GB32278301817

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1. Introduction



Thank you for selecting the HYDR/*M* C61wd G4 instrument washer-disinfector. It is designed in accordance with ISO 15883-1 and -2, the international standard for washer-disinfectors, and complements the STAT/*M*® and BRAVO™ autoclaves by quickly and hygienically preparing soiled instruments for sterilization. Further, the HYDR/*M* C61wd G4 is also SVGW approved in Europe and has obtained WRAS approval in the UK. To ensure years of safe, trouble-free service, carefully review this Operator's Manual before operating the unit. The HYDR/*M* C61wd G4 is suitable only for the applications listed in this manual. Using the HYDR/*M* for other purposes may be dangerous. 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 HYDR/*M* product.

The HYDR/*M* should only be installed and serviced by a qualified contractor as it is an Installation Category II 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. The unit must only be plugged into a grounded outlet. Please note that 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 HYDR/*M* C61wd G4 uses HIP™ Ultra cleaning solution exclusively. The unit will not perform as described if detergents or cleaning products not approved by the legal manufacturer are used. Other detergents or cleaning products may damage the unit, the instruments, cause excessive foaming, and void the warranty. Do not use solvents in this unit. Do not allow unauthorized personnel access to this unit or its controls.

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2. Important Information

2.1 Disclaimer

Do not permit any person other than authorized personnel to supply parts for service or maintenance for your HYDR/*M*. The legal manufacturer is not liable for incidental, special or consequential damages caused by any maintenance or services performed on the HYDR/*M* 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 any unit panels 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.



If the unit is used in a manner other than that specified, the protection provided by the equipment may be impaired.



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



Never sit, stand or lean on the open door. The unit may tip forward causing injury.



Always turn the unit OFF before adding softener salt, adding solutions or performing routine maintenance to the unit.



The owner shall not allow any personnel other than the trained and authorized personnel to operate the unit.



We recommend leaving the unit turned ON at all times, in particular over times when no staff is in the office or when no water shut-off mechanism is installed. Leaving the unit turned ON will activate the drain pump if water is leaking into the chamber as a result of any faulty circumstance.

Any serious incidents should be reported to the manufacturer and/or the competent authority in which the user and/or patient resides.

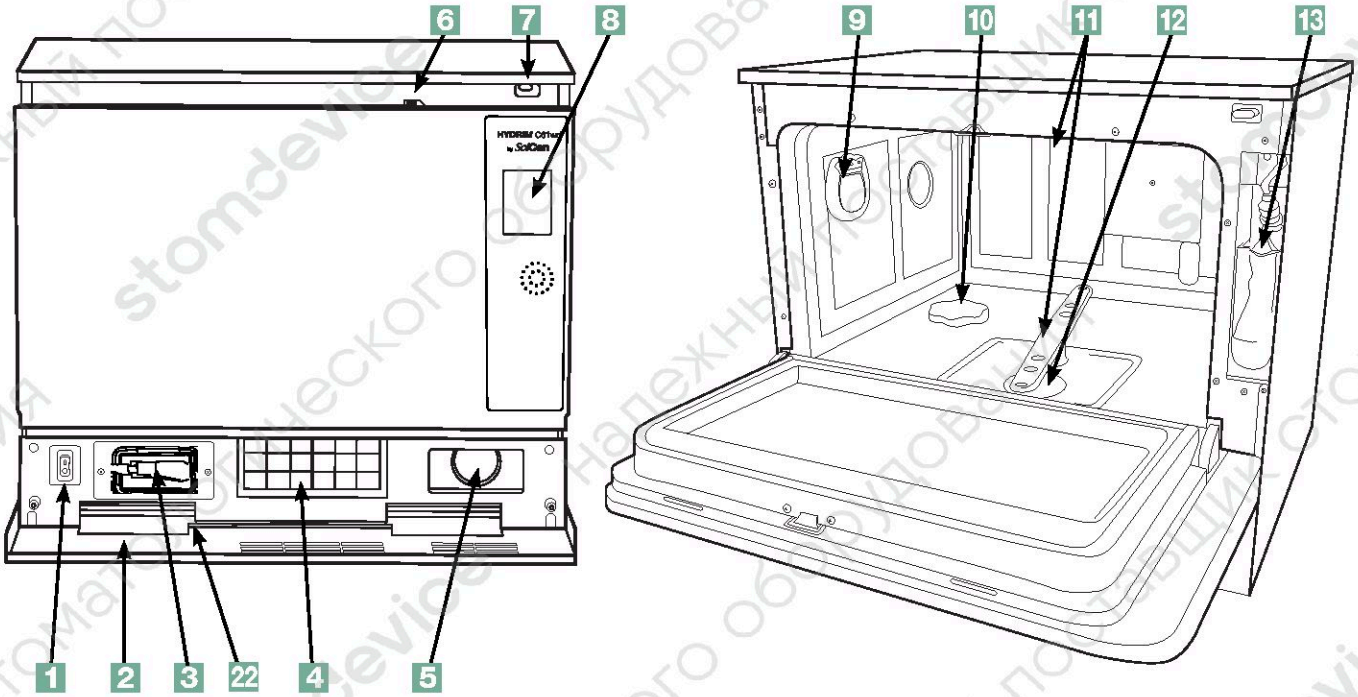
This device should be disposed of in accordance with federal, provincial/state and local government requirements.

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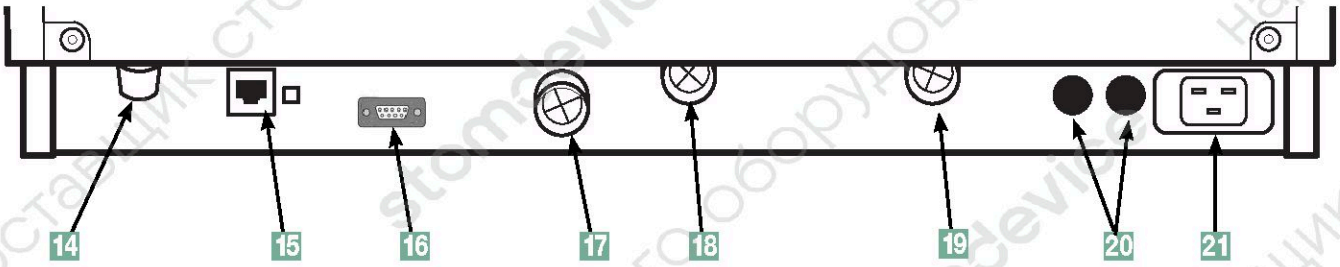
2. Important Information

2.2 HYDRIM Unit overview



1 Power switch
2 Kickplate
3 Bacteriological air filter (if fitted)
4 HEPA filter
5 Dryer exhaust
6 Door latch
7 USB port
8 LCD touchscreen
9 Dryer outlet
10 Water softener
11 Wash arms (top not shown)
12 Coarse filter
13 Cleaning solution and drawer
14 Drain outlet
15 Ethernet port
16 RS232 port
17 Cold water inlet
18 Hot water inlet
19 R/O water inlet
20 Fuses
21 Power cable connection
22 Drain tube (behind kickplate)

Rear Connections



The following symbols appear in the margins of this book.

A potential hazard to the operator.

A situation that may lead to a mechanical failure.

Important information

The following symbols appear on the unit:

Caution: Hot Surface and/or Hot Steam

Caution: Risk of electrical shock. Disconnect supply before servicing.

Caution: Refer to manual for details.

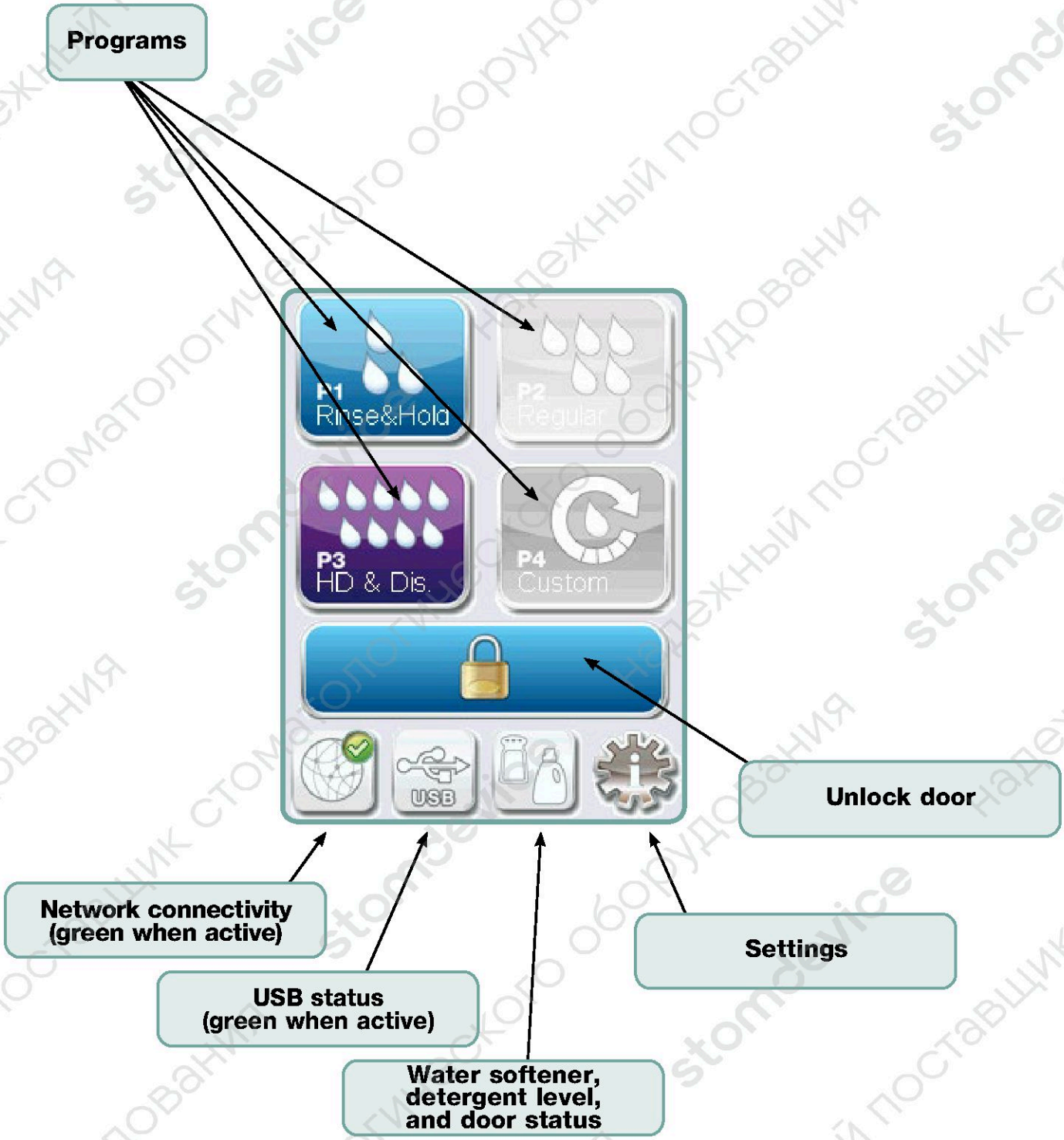
Replace only with 15A, 250V type F fuses for continued protection against the risk of fire.

MD Medical Device

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2. Important Information

2.3 Touchscreen overview

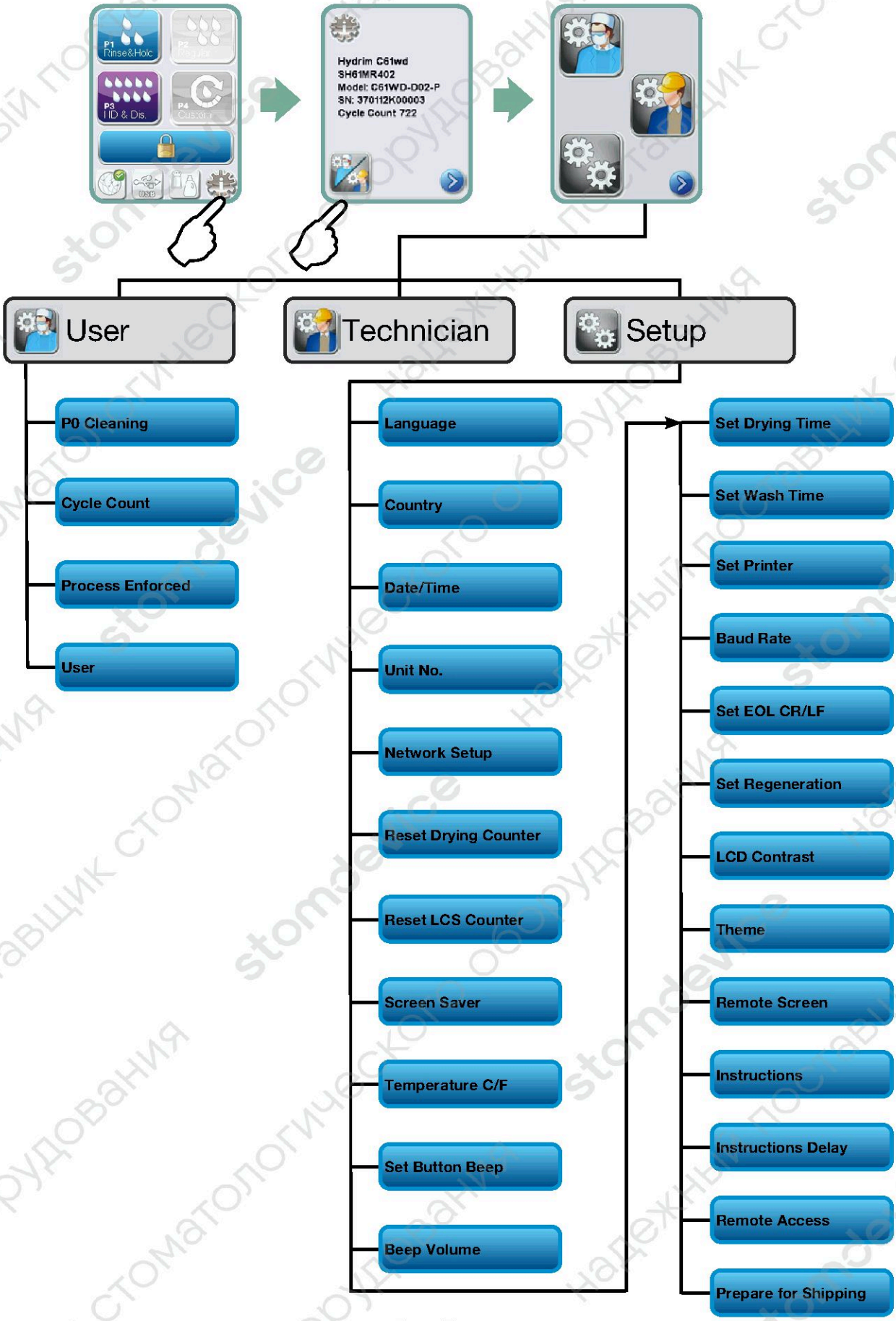


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2. Important Information

2.4 Set up menu overview



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3. Setting up your HYDR*IM*

IMPORTANT INFORMATION

- To open the wash chamber door if the door is locked and the unit is not functional, release the lever located on the top edge of the door and pull the door open. (For more detail, see section 4.9 Opening the door in case of a power failure.)
- Ensure that HIP™ Ultra cleaning solution (instrument wash chemical) is available. All other supplies are included with your unit.
- The HYDR*IM* C61wd G4 is heavy (44 kg). Exercise caution when moving it.
- The HYDR*IM* C61wd G4 must be properly grounded.
- The HYDR*IM* C61wd G4 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.

3.1 Installation

Installation should only be undertaken by an approved technician. The use of an unapproved installer may invalidate the warranty. A separate pre-installation checklist should have been supplied by your dealer. Please review this prior to approving installation.

If the HYDR*IM* C61wd G4 is installed in a sterilization center, the manufacturer of the sterilization center should allow enough space at the top, back and both sides of the unit to facilitate installation, leveling, and service access to the unit.



Do not move the HYDR*IM* C61wd G4 into place by maneuvering the open wash chamber door. This may cause the door to become misaligned and can cause leakage.

During installation, all consumables should have been added to the machine as approriate. It is important to check that this has been undertaken before starting the machine.

3.2 Handling and installing the HIP™ Ultra cleaning solution

The HIP™ Ultra 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 is between 9.3 – 9.8 and the solution is therefore mildly alkaline. It is therefore advised that certain precautionary measures are observed when handling during the loading of the solution into the machine, and when removing and disposing of the empty bag.

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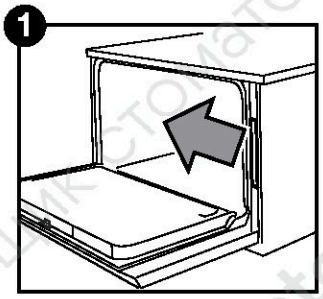
3. Setting up your HYDR*IM*

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

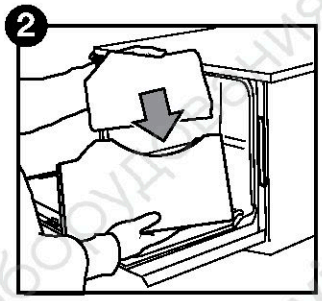
- Always wear undamaged gloves made of natural or butyl rubber, nitrile, or neoprene (Surgical gloves are ideal).
- Always wear eye protection.
- Protect exposed skin on arms.
- If solution is spilled on clothing, remove the item of clothing and wash affected skin with plenty of water, in accordance 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™ Ultra cleaning solution, is cleaned, or disposed of as appropriate.

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

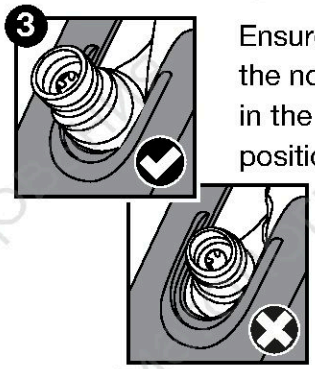
To install the HIP™ Ultra cleaning solution bag, follow these steps:



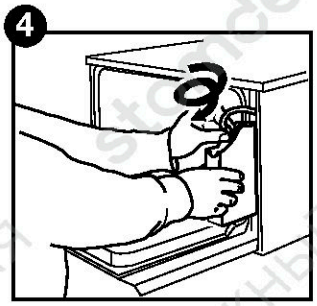
Turn the power OFF, open the door and pull out the chemical drawer.



Place a new bag in the chemical drawer.



Ensure the nozzle is in the correct position.



Connect the new bag, close the door and power the unit ON.

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3. Setting up your HYDR*/M*

3.3 Water quality

The quality of the water being used in the HYDR*/M* 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*/M*. Among others, Iron, Manganese, Chloride, and Calcium Carbonate ($CaCO_3$) are the dominant dissolved solids that affect the cleaning results when using a washer-disinfector.

Iron and Manganese can cause orange and brown or black stains on the instruments and on the internal parts of the HYDR*/M*. Chloride is usually responsible for causing stains, spotting, pitting and scaling. If the instruments or the inner parts of the HYDR*/M* C61wd, 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*/M*.

Calcium Carbonate is the principal cause of water hardness and leaves white spots or scales. The HYDR*/M* is equipped with a built-in water softening system that must be adjusted according to the local water hardness. Please see section 3.4 of this manual for recommended regeneration settings.

Before using the HYDR*/M*, we recommend testing the water and recording the results for water hardness, pH value, and water conductivity for future references in the pre-installation and installation documents.

IMPORTANT: The HYDR*/M*'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.

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3. Setting up your HYDR*/M*

3.4 Testing water quality

The HYDR*/M* C61wd 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:

The water test kit included with your HYDR*/M* contains three water hardness test strips in bags. Take a water sample from the location where the machine will be installed.

1. Open one of the bags, remove the test strip and dip it into the water.
2. 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.
3. Power the unit on and select the Settings key from the main menu.
4. Go to the Setup Menu and select “Set Regeneration”.
5. 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.
6. Unscrew the water softener container lid from the bottom left of the chamber and pour 0.5 litres of water into the water softener container.
7. Add 0.5 kg of water softening salt to the water softener container, using the supplied funnel to prevent any salt from spilling into the chamber, and close by screwing the lid **tightly** back into place. An improper seal can lead to corrosion.

Water Hardness Conversion and salt regeneration levels

	°dH	US GPG	PPM (mg $CaCO_3$ / 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*	5
	15	15.6	268	
	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	

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/M* is installed has known water quality problems, having a more detailed and accurate water test done by a test lab is strongly recommended.

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3. Setting up your HYDR*IM*

3.5 Disposing of packaging and decommissioned units

Your unit is shipped in a cardboard box. Please break down and dispose according to municipal requirements.

A decommissioned washer-disinfector should not be disposed of in the regular domestic waste. Doing so is potentially harmful to people and the environment. It has been used in a healthcare setting and represents a minor infection control risk. It also contains several recyclable materials that can be extracted and reused in the manufacture of other products. Contact your municipality to learn about its policies and programs governing the disposal of electronic devices.

3.6 Setting the language

The messages displayed by your HYDR*IM* can be presented in a number of different languages. To change the current language, follow these steps:

1. 
2. Scroll to **Language** and select.
3. From the LANGUAGE screen, press  to scroll through the list of languages. When you have found the desired language, press  to save your selection and return to the Setup menu.

3.7 Setting the country

1. 
2. Scroll to **Country** and select.
3. Using the keypad, type the name of the country and press EN to select. Press  to save and return to the Setup menu.

3.8 Setting the time

1. 
2. Scroll to **Date / Time** and select Time Setup.
3. From the TIME screen, use the keypad to set the time. Press EN to save and  to return to the Setup menu.

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3. Setting up your HYDR*IM*

NOTE: If the HYDR*IM* is connected to a network, it is important to also enter the correct Time Zone. Enter the Time submenu, select Time Zone and scroll and select your local time zone.

4. To change your unit to display 12-hour time format (24-hour time format is the default setting), go to the Setup menu and use ▲ ▼ to scroll to TIME 12/24, select it and toggle to 12. Press ▶ to save and return to the Setup menu.
5. To activate daylight savings time (DST), go to the Setup menu and use ▲ ▼ to scroll to DST ON/OFF and select. Use ▲ ▼ to toggle DST ON or OFF and press the ▶ to save and return to the Setup menu.

3.9 Setting the date

1. 
2. Scroll to [Date / Time] and select Date Setup.
3. From the DATE screen, use the keypad to set the date. Press [EN] to save and ▶ to return to the Setup menu.
4. To change the format in which the date appears, return to the Setup menu and use ▲ ▼ to scroll to DATE FORMAT. Select it, and follow the prompts to have the date displayed in the desired format. Press ▶ to save and return to the Setup menu.

3.10 Assigning unit identifier number

1. 
2. Scroll to [Unit No] and select.
3. Using the keypad, select a maximum of 3 digits to be used as the unit's identifier number. Press [EN] to save and ▶ to return to the Setup menu.

3.11 Resetting the drying counter

The drying counter must be reset when the HEPA filter is changed. To reset the drying counter, follow these steps:

1. 
2. Scroll to [Reset Drying Counter] and select.
3. Select Default 0 to reset.

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3. Setting up your HYDR*/M*

3.12 Resetting the LCS counter

If the unit is fitted with a lumens cleaning system, the LCS counter must be reset when the LCS system is used and the biological filter is changed. To reset the LCS counter, follow these steps:

1. 
2. Scroll to **Reset LCS Counter** and select.
3. Select Default 0 to reset.

3.13 Adjusting the screensaver delay

To change the length of time before the screensaver is activated, follow these steps:

1. 
2. Scroll to **Screensaver** and select.
3. Use to scroll through your time options. When you have found the amount of time you require, press it. Press to save and return to the Setup menu.

3.14 Adjusting the temperature display

1. 
2. Scroll to **Temperature C/F** and select.
3. Use to choose between having information displayed in degrees Celsius or Fahrenheit. Press to save and return to the Setup menu.

3.15 Turning the button sound ON or OFF

The HYDR*/M* is preset to beep when a button is pressed. If you would like to turn the button sound off, follow these steps:

NOTE: Turning OFF the button sound does NOT turn off other alarms and cycle notification beeps.

1. 
2. Scroll to **Beep ON/OFF** and select.
3. Use to scroll through your ON or OFF options and select it by pressing it. Press to save and move back to the Setup menu.

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3.16 Adjusting the button beep volume

If you would like to adjust the beep volume, follow these steps:

1. 
2. Scroll to **Beep Volume** and select.
3. Use  to scroll through the volume settings. Select the one you want by pressing it. Press  to save and move back to the Setup menu.

3.17 Adjusting the salt regeneration

Salt regeneration should be set according to the local water hardness. See section 3.4 Testing Water Quality for instructions on determining correct settings. To set salt regeneration, follow these steps:

1. 
2. Scroll to **Set Regeneration** and select.
3. Use  to change the value. The default setting is 1. Press  to save and return to the Setup menu.

3.18 Adjusting the screen contrast

The touchscreen is calibrated for the lighting condition of most sterilization centers. Should you need to adjust the contrast for your office, follow these steps:

1. 
2. Scroll to **LCD Contrast** and select.
3. Use  to scroll through your contrast options. When you have found the contrast you require, press it. Press  to save and return to the Setup menu.

3.19 Changing the touchscreen display themes

The touchscreen themes (i.e. icons and background colours) can be changed to one of the preset options. To change themes follow these steps:

1. 
2. Scroll to **Theme** and select.
3. In the **Change Theme** screen, use  to scroll through your available options. As you scroll, each theme will display on the touchscreen. Press  to select your theme and return to the Setup menu.

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3. Setting up your HYDR*IM*

3.20 Creating a User Name

Up to 20 unique User Names can be created. To assign a User Name follow these steps:

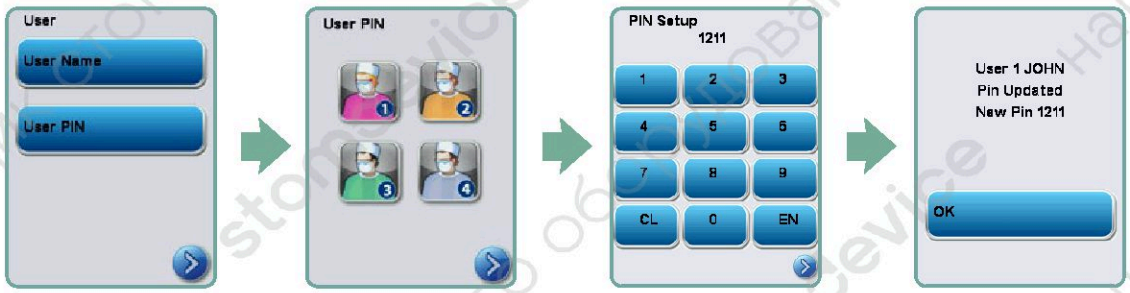
1. 
2. Scroll to **User** and select.
3. To assign a user name, select **User Name** and use the alphabetic keypad to enter a name (up to 12 characters) and press **EN** to save.



3.21 Creating a User PIN

From the User PIN screen, you can assign up to 20 PINs. To assign a PIN, follow these steps:

1. 
2. Scroll to **User** and select.
3. To assign a user PIN, select **User PIN** and use the numeric keypad to enter a number (up to 4 digits) and select **EN** to save and to move to the confirmation screen.



4. If all of the information presented in the confirmation screen is correct, press OK to be returned to the User PIN screen. To make a correction, select the User PIN you want to change and repeat the process described above.

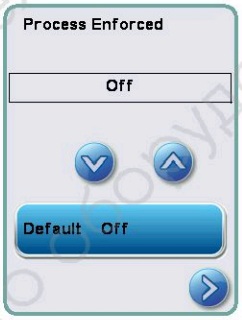
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3.22 Setting up process enforced usage

When process enforced usage is activated, users are required to enter a PIN at the end of a cycle. For process enforced usage to function, User IDs and PINs must first be assigned. To set up User ID and PINs, refer to sections 3.20 and 3.21 on creating a user name and PIN. To activate process enforced usage, follow these steps:

1. 
2. Scroll to **Process Enforced** and select.
3. Use  to toggle process enforced function ON or OFF. Press  to save your selection and return to the Setup menu.

NOTE: Any user can stop a cycle even with process enforced usage ON. However, the cycle data will record that an unauthorized user has stopped the cycle.



3.23 Connecting to a network

The HYDR*/M* C61wd G4 has a 10/100Base-T Ethernet port located at the back of the unit. To connect your HYDR*/M* to a network using a router, follow these steps:

1. Connect your network cable to the Ethernet port at the back of the unit. If your office uses a router, the router should automatically assign the unit an IP address. A red X on the network icon means the unit is not connected. A yellow check mark means the unit has an IP address but is not connected to the Internet and cannot send emails. A green check mark means the Internet connection is set up properly and the unit can send out emails.

NOTE: In some circumstances, where you do not have a router, for example when using Windows Network Sharing, you may have to assign a dedicated or 'static' IP address. To assign a static IP address, contact your local network administrator.

2. From the main screen, press the Network icon. The Network screen displays information about your HYDR*/M*'s connectivity, including its IP address.



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3. Type the IP address displayed on the touchscreen into the browser of any web enabled device to access your unit's web portal. When the Network icon is active (for example when sending email) it will turn green.

NOTE: Use QR code if connecting to a mobile device.

NOTE: Connection time will vary depending on your network speed, and making an initial connection can take longer.



3.24 Connecting to a wireless network

HYDR*IM* models offer Wireless capability for connecting units to the G4 network, adding flexibility to the Network Cable connection that is also available with HYDR*IM* C61wd G4 units. HYDR*IM* C61wd G4 WiFi offers a simple set-up and secure connection to the G4 network.

1. From the main screen, press the Network Icon.

2. Select WiFi, choose your network and enter your password.

NOTE: Your connection preference can be changed at any time

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4. Using your HYDR*IM*

4.1 Instrument reprocessing recommendations

The HYDR*IM* C61wd G4 is designed to clean, or clean and thermally disinfect, (depending on the cycle chosen) general dental and medical instruments. The disinfection level (A_0=3000 and higher) is intended to reduce the number of viable microorganisms on a product to a level appropriate for its intended further handling or use depending on requirements specified by regional or national authorities. Regulatory authorities may specify more stringent requirements within the territories for which they are responsible.

For non-invasive medical devices, we recommend terminal sterilization after processing in the HYDR*IM* according to regional guidelines.

For invasive medical devices, such as dental handpieces, terminal sterilization must be performed after processing in the HYDR*IM* C61wd G4.

Note: Prior to placing instruments in the HYDR*IM* and using the optional handpiece adaptor, consult the instrument manufacturer's reprocessing instructions for suitability and cleaning in a thermal-disinfector. If in doubt, seek the advice of the instrument manufacturer.

Examples of medical and dental instruments suitable for cleaning and disinfecting in the HYDR*IM* include:

- Stainless steel scalers, spatulas and hemostats.
- Stainless steel retractors, needle holders, skin hooks, tissue forceps, scissors, curettes, and other stainless steel instruments free of deep cavities.

For best results, instruments processed in the HYDR*IM* should have the following properties:

- Heat resistance to a temperature of up to 95°C.
- Corrosion resistance in the presence of heat.

! Microkeratomes, phaco tubing, fiberoptics and electrical equipment should not be processed in the HYDR*IM*.

! Nickel-plated instruments, or instruments containing aluminum or colour anodized aluminum as well as single use instruments are not suited for processing in the HYDR*IM*.

HIP™ Ultra (HYDR*IM* cleaning solution with Instrument Protection) has been carefully formulated to provide outstanding material compatibility with a wide range of metals and coatings. However, some manufacturers' instruments may not be compatible.

Some instrument manufacturers make their instruments with special coatings, which may not be suitable for use in an automatic instrument washer-disinfector. Please consult the instrument manufacturer for their recommended cleaning procedures of these instruments.

! In general, it is not recommended to process carbon steel and chrome-plated instruments in the HYDR*IM* C61wd G4.

! When processing small or light objects in the HYDR*IM* C61wd G4, use the basket with lid.

! Do not put dental burrs in the HYDR*IM* C61wd G4.

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4. Using your HYDR*IM*

4.2 Cycle description chart

HYDR*IM* C61wd G4 instrument washer/disinfector

Cycle	Prewash	Wash	Rinse	Dry
P0 – Machine Cleaning Cycle No initial draining.	<30°C (cold) 2-10 minutes (default 2 minutes)	N/A	<30°C (cold) 2 minutes	N/A
P1 – Rinse and Hold Cycle **(no disinfection)** - Use to prevent soil from drying on instruments when they will not be washed within one hour. Please note that this cycle does not provide disinfection as it is only intended as a pre-wash for instruments.	<30°C (cold) 2-10 minutes (default 2 minutes)	N/A	30°C 1 minute	N/A
P2 - Regular Cycle* **(no disinfection)** - Use for moderately soiled loose instruments. Please note that this cycle DOES NOT provide disinfection which may not be acceptable in certain regions and we advise that you consult your local regulatory authority before activating.	<30°C (cold) 2 minutes	50°C 5 minutes	60°C 1 minutes	1-25 minutes (default 10 minutes)
P3 – Heavy Duty Cycle with disinfection Use for heavily soiled instruments and cassettes.	<30°C (cold) 2-10 minutes (default 2 minutes)	50°C 9-15 minutes	90-95 °C 5 minutes	1-25 minutes (default 8 minutes)
P4 - custom* (A_o between A_o= 3,500 (rinse) and A_o = 6,000	<30°C (cold) 2 minutes	50°C 5-9 minutes	90-95 °C 1-5 minutes	1-25 minutes (default 8 minutes)
P5 – Special Cycle 93°C 10 minutes. Technician access only. This cycle has a different profile, there is no draining of until after disinfection; disinfection is performed during wash.	N/A	90-95°C 10 minutes	70°C 5 minutes	1-25 minutes (default 8 minutes)

* to be activated by a technician

The P3, P4 and P5 disinfection temperature reflects the minimum guaranteed temperature at any time during disinfection anywhere in the wash chamber. However, the disinfection temperature is set to be around 93°C, with an upper switch point of the heater at 94°C and a lower switch point of 92°C.

The disinfection time of P4 can be increased by 1 minute incremental intervals from 1 to 5 minutes. The minimum disinfection time is 1 minute with a minimum A_o value of 3500. The minimum A_o value for disinfection time of 5 minutes is 6000. The final rinse time has to be set and validated by a technician after installation in the office.

Note: ISO 15883-1 describes the time-temperature relationships for moist heat disinfection as follows:

"For a moist heat disinfection process, a particular time at a particular temperature can be expected to have a predictable lethal effect against a standardized population of organisms. Definition of moist heat disinfection process may be achieved by means of the A_0 method, which uses knowledge of the lethality of the particular process at different temperatures to assess the overall lethality of the cycle and express this as the equivalent exposure time to a specified temperature."

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4. Using your HYDR*IM*

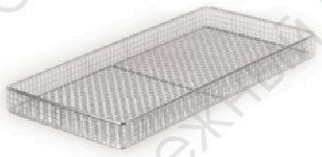
4.3 Baskets and accessories

! Observe the instrument manufacturer's recommendations for cleaning and care.
When loading the unit, arrange loose instruments so that they do not touch one another.
Instruments with concave surfaces or cavities should be placed so that water can drain freely.

Baskets



STAT*IM* 2000 basket
01-107240



STAT*IM* 5000 basket
01-107241



Large basket
01-113545



Hygiene basket
01-113546



Basket with hinged lid
01-113547

Handpieces

For use with LCS models only



Handpiece adapter
01-113625

Racks (Trolley and baskets not included)



Six cassette rack
01-113251



Three cassette, two basket rack
01-113253



Two basket rack
01-113257

Rack for Vertical and Hinged Instruments

Requires support from a basket



Rack for vertical instruments
01-113255



Rack for Hinged instruments
01-110409S



Ten tray, two basket rack
01-113254

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4.4 Hints and tips for best cleaning results

- Remove all cement, composite material and amalgam from instruments at chairside prior to processing in the HYDR*IM*.
- Use only accessories, such as baskets, cassettes, trolleys and racks to hold instruments that are designed for the HYDR*IM* C61wd G4.
- Use accessories for their intended purpose only. For example, do not place hinged instruments in cassettes. Use the hinged instrument rack instead.
- Disassemble instruments if possible.
- Do not overlap instruments. Each instrument must be kept separate.
- All instruments must be placed in the instrument washer-disinfector in such a way as to allow good rinsing of all surfaces. Any surface that is shielded from water and detergent cannot be cleaned.
- Hinged instruments should be placed in a wide open position in baskets. Closed hinged instruments cannot be cleaned.
- Place suction tubes in the rack for vertical instruments and ensure that water can flow unrestricted in and out of the tubes. Do not place suction tubes horizontally in a basket or in a cassette. For instruments containing lumens, such as dental handpieces, only the external surfaces are cleaned (unless using the LCS adapter).
- Place trays and other concave shaped items at an angle to ensure water can run off surfaces easily.
- Do not overload the HYDR*IM*.
- Verify the HYDR*IM* setup:
  - Ensure that the washer spray arms are free of any blockage and can rotate freely.
  - Ensure that the mesh filters in the chamber drain are free from debris.
- To achieve best cleaning results, instruments should be processed in the HYDR*IM* as soon as possible. If immediate cleaning is not possible, it is recommended to process the instruments using the P1 Rinse and Hold program immediately after use on the patient.
- Visually inspect instruments for cleanliness and integrity (corrosion, material changes) after cleaning and repair or replace instruments if necessary.
- If process enforced is activated, the operator must confirm that the instruments are visually clean after a complete cycle is finished.

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4.5 Recommended load configurations

The HYDR*IM* C61wd G4 can process many different instrument combinations as determined by the following:

- Size of practice
- Types of procedures undertaken at any one time
- Specialization of practice
- Instrument management protocols

Below are examples of a few loading scenarios, including the most common basket loadings, the recommended loading of general instruments, and the worst case loading for the unit. Handle all instruments with care to prevent personal injuries from punctures, for example, and follow local health and safety regulations to prevent accidents and injuries.

Using baskets and accessories

Observe the instrument manufacturer's recommendations for cleaning and care. When loading the unit, arrange loose instruments so that they do not touch one another. Instruments with concave surfaces or cavities should be placed so that water can drain freely.

Sample loading:

Solid straight and hinged instruments

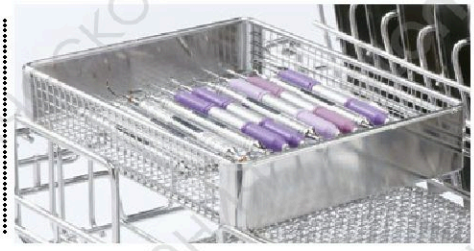




For example: scalpels, scissors, curettes, excavators, pluggers, etc.

Solid straight instruments





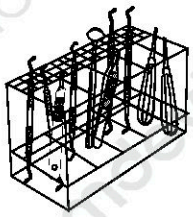
For example: pliers, knives, explorers, scalers, etc.

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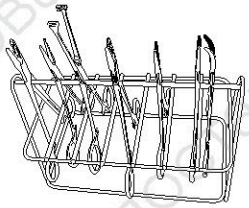
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4. Using your HYDR*IM*

Hinged instruments, solid instruments and open hollow instruments

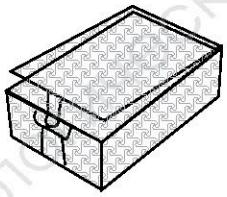


For example: Scalers, curettes, dental elevators, single part mirrors, suction tubes etc.

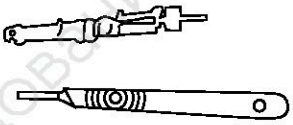


For example: Tissue forceps and scissors.

Small and disassembled instructments



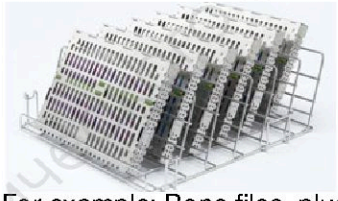


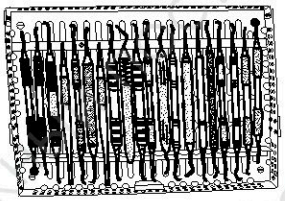


For example: Two piece mirrors, scalpel knife handles, etc.

Instrument sets in cassettes – full load







For example: Bone files, pluggers, curettes, excavators, etc.

Handpieces





For use with Lumens Cleaning System equipped models only.

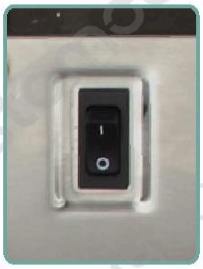
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4. Using your HYDR*IM*

4.6 Running a cycle

Before using your HYDR*IM*, check that the water supply is on and that the HIP™ Ultra cleaning solution bag is correctly installed and attached, then follow these steps:

1. Power unit on.



2. Touch the screen to begin.



3. Press UNLOCK if required.



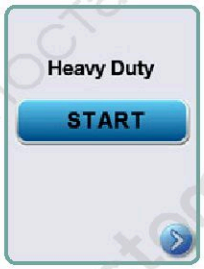
4. Load instruments into the baskets or cassettes, place them in the machine and close the door.



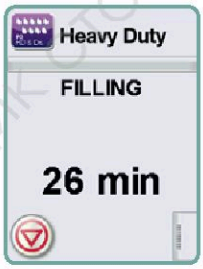


5. Select the desired cycle. (Use a heavy duty cycle for cassettes, hinged instruments or heavily soiled instruments.)

6. Press START.

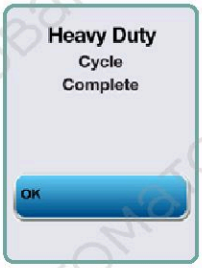


7. The cycle will begin.



The cycle will start by draining the unit. The bar on the screen indicates the progression of the cycle. The stage within the cycle is shown beneath the bar (e.g. Filling, Rinsing). The estimated time remaining (in minutes) is always displayed. Please note that the time will increase or decrease depending on the projected cycle completion.

8. The cycle is complete.

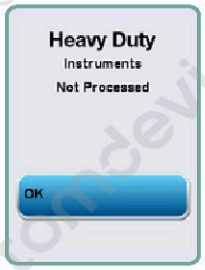


When the cycle is complete, the program name and “Cycle Complete” is displayed, and the unit beeps three times. Press “OK” to open the door. Use gloves to unload the instruments. After all cycles, exercise caution as the instruments, trolley, baskets and cassettes may be hot. Inspect the instruments for debris prior to packaging / sterilizing.

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4. Using your HYDR*IM*

4.7 Interrupting / aborting a cycle



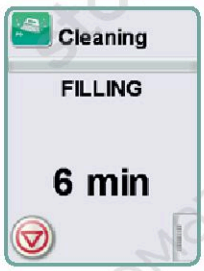
The door of the HYDR*IM* is locked during the cycle. If the STOP button is pressed, the cycle is aborted and cannot be re-started. The message “Draining. Please wait” will appear. The unit will drain. Then the message “Instruments not processed” will appear. Press OK. Open the door by pressing . Use gloves if handling the instruments. Exercise caution as instruments, trolley, baskets and cassettes may be hot. The cycle must be repeated to ensure that instruments are properly processed.

NOTE: If the drying phase of the cycle is interrupted, the critical parts of the cycle are complete and the message displaying the program name and “Cycle Complete. Drying interrupted” will appear.

4.8 Additional user and setup menu functions

To access the user or setup menus, follow these steps:





Chamber cleaning

This cycle is used to periodically remove hardwater deposits from the chamber walls and racks. Pour 0.5 litres of vinegar or citric acid- into the chamber before starting the cycle. The HYDR*IM* will remind you to run a cleaning cycle every 25 cycles. The reminder frequency can be adjusted by the technician. Touch “cleaning.” A cleaning cycle, similar to a normal wash cycle, will run. Failure to clean the chamber can promote corrosion.

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4. Using your HYDR*IM*



Cycle count

This allows the user to see how many cycles have been run on the HYDR*IM*. Touch cycle count and the number of cycles (completed and aborted) will be displayed. This cannot be reset. Touch the back arrow to return to the previous menu.



Instructions

Users can access a database of pictorial instructions on how to perform routine maintenance such as installing the cleaning solution.

4.9 Opening the door in case of a power failure

If there is a power failure, locate the lever on the top edge of the door, slide it to the right and pull the door open. Exercise caution! There may be fluid remaining in the unit and the instruments may be hot. If the cycle was interrupted, instruments should not be used and should be reprocessed.



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5. Storing and Retrieving Cycle Information

The HYDR*/M* C61wd G4 has an internal Data Logger capable of storing all the data on every cycle, whether successful or incomplete, for the lifetime of the unit. You can access this information through the touchscreen, through the web portal or by using a USB storage device.

5.1 Retrieving cycle information using the touchscreen

1. From the main menu, press the USB icon.
2. The unit will record up to the last five successful cycles and the last five incomplete cycles.

   If you select a cycle from the list, it will display cycle information in a format similar to how it would be printed.



3. Use the arrow keys to scroll through and read.

NOTE: Regardless of whether you have a USB storage device attached to the unit or not, you can always see the last five successful cycles and the last five incomplete cycles.

Use the HYDR*/M* C61wd G4 web portal to access all the cycle information stored on your HYDR*/M* from your computer. To connect your HYDR*/M* see section 3.23 Connecting to a Network.

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5. Storing and Retrieving Cycle Information

5.2 Retrieving cycle information using the USB data back up

The USB storage device can be used to transfer cycle information stored in the unit to a computer. Best practice suggests this should be done once a week. To transfer data using the USB port, follow these steps:

1. Plug the USB storage device into the USB port.
2. The HYDR*IM* keeps track of what data has already been transferred to the USB storage device and will automatically load only new data. Data stored in the internal memory of the HYDR*IM* can be copied once only. Access to previously transferred information can be made from the web portal.
3. When the activity light on your USB storage device stops blinking or the USB icon on the LCD turns from a flashing green to a solid grey, remove the USB storage device and transfer the information to your computer.

NOTE: If you select the USB storage device icon from the main menu, you will only be able to view the last five complete cycles and the last five incomplete cycles. To view all the cycles stored on the USB storage device, you must use your computer.

NOTE: If you lose your USB storage device and would like to transfer your unit's cycle history to a new device, follow these steps:

1. Plug the new USB storage device into the USB port.
2. Select the USB icon.
3. From the cycle information screen, select the USB icon again.
4. Select Copy and the unit will copy all cycle information to the USB storage device.



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6. Care and Maintenance

6.1 Replacing the HIP™ Ultra cleaning solution

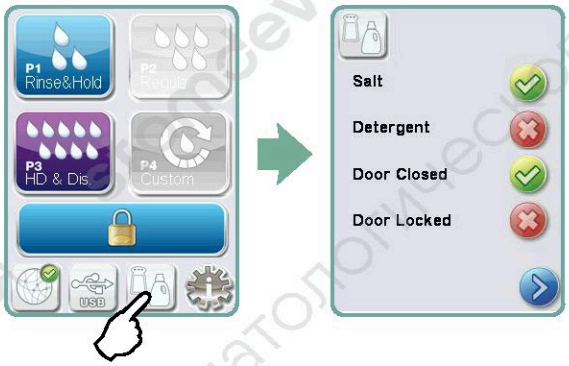
Only replace the cleaning solution with HIP™ Ultra cleaning solution, which is used in dilute form as a detergent for the cleaning of surgical instruments in the HYDR*/M* washer-disinfector.

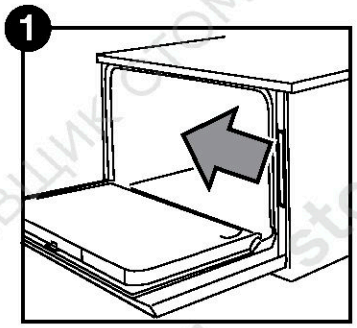
It is a colourless and almost odourless liquid that is completely soluble in water. Some precautions must be taken to safely handle this chemical. For more information, see section 3.2 Handling and Installing the HIP™ Ultra cleaning solution.

NOTE: To avoid spillage, replace the solution container only when the message appears and be sure to wear gloves.

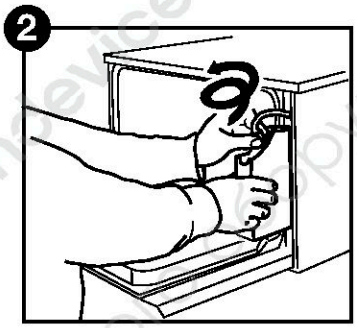
! When a red X appears on the water softener/detergent icon. Press on the icon to determine if the problem is with the water softener or cleaning solution level. If the cleaning solution must be replaced, a red X will appear next to it.

To replace the cleaning solution, follow these steps:
Spare part#: CS-HIPC-U (8 x 750 mL), HIP™ Ultra cleaning solution.

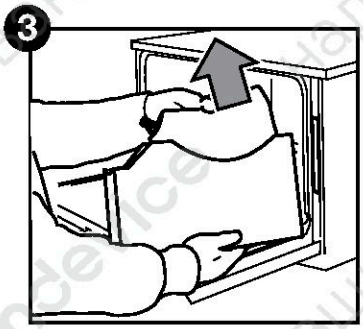




1 Turn the power OFF, open the door and pull out the chemical drawer.



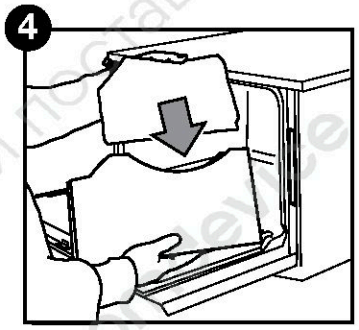
2 Disconnect the cleaning solution connector.



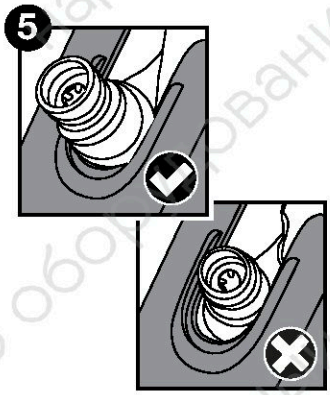
3 Remove the empty cleaning solution bag and discard or recycle it.

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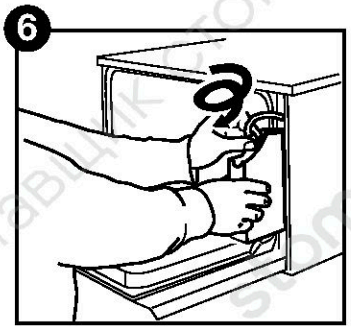
6. Care and Maintenance



Place a new bag
in the chemical drawer.



Ensure the nozzle is
in the correct position.



Connect the new bag,
close the door and
power ON the unit.

To prime the cleaning solution dosing pump, press the water softener/detergent icon on the main screen. In the water softener/detergent screen, press the red X next to “Detergent”. The unit will prime the dosing system and a green check mark will appear in place of the red X when it is ready for use.



NOTE: The system can also be primed by simply starting a cycle and selecting “Detergent Replaced”, when prompted.

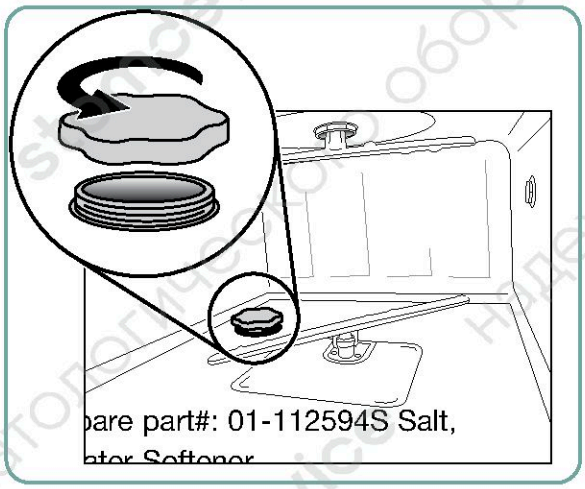
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6. Care and Maintenance

6.2 Refilling the water softening salt reservoir

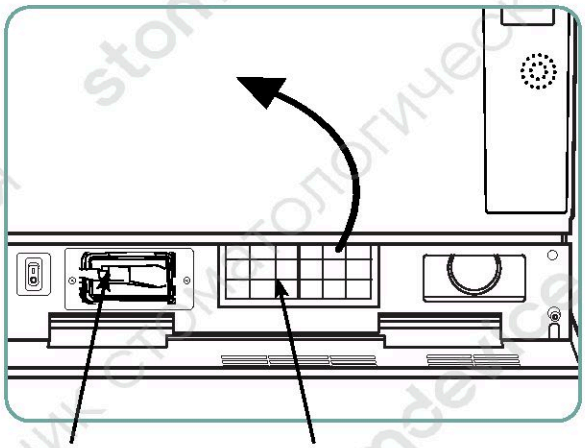
When a red X appears on the detergent and water softener level indicator, press on the icon to determine if the problem lies with the water softener or cleaning solution level. If the water softener must be refilled, follow these steps:



Open the salt container lid.

1. Fill the salt container to the top, using the funnel supplied, to a maximum of 0.5 kg.
2. Close the salt container lid, ensuring a tight seal. An improper seal can lead to corrosion.
3. Run a complete cycle, with no instruments.

6.3 Changing the air filter and bacteriological filter (if fitted)



Air filter

When the message “Replace air filter” appears, the HEPA filter is in need of changing.

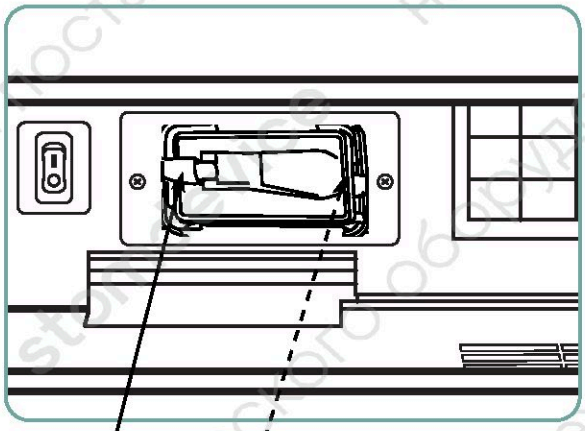
1. Turn the power off.
2. Pull open the ventilation panel below the front door of the unit.
3. Make note of the direction of the arrow and remove the old filter by pulling it from the centre.
4. Install the new air filter – placing the arrow in the correct orientation – and close the ventilation panel.
5. After replacing the filter, go to the “Reset Drying Counter” screen in the Setup menu and reset the drying counter to zero. (See Section 3.11)

The filter must be replaced every 750 drying cycles. The unit will continue to run if the filter is not replaced, but you will notice less than optimal drying performance.
Spare part#: 01-113277S Filter-Air, C61

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6. Care and Maintenance

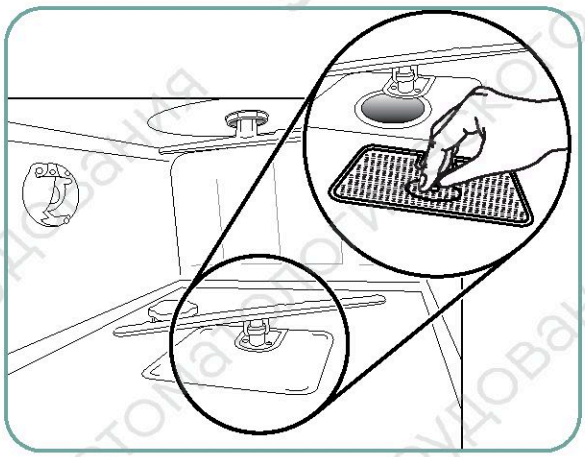


Bacteriological filter

Models fitted with a lumens cleaning system (LCS) have a biological filter that must be replaced every 500 cycles or if dirty. To change the biological filter, follow these steps:

1. Power the unit OFF and disconnect tube A from the bacteriological filter and remove the filter from the filter bracket.
2. Note the orientation of the arrow mark on the filter before removing. When the filter is free of the bracket, carefully disconnect tube B from the back of the filter.
3. Before installing the replacement bacteriological filter (order no. 01-102119S) check that the arrow mark on the filter matches the direction of the arrow on the bracket. Push the right hand filter fitting into tube B.
4. Gently press the replacement filter into the filter bracket. The arrow mark of the filter should be facing out and pointing to the right.
5. Re-connect tube A to the left hand filter fitting.
6. After having replaced the filter, go to the "Reset LCS counter" screen in the Configuration menu and reset the counter to zero. (See Section 3.12)

6.4 Filter and wash arm maintenance

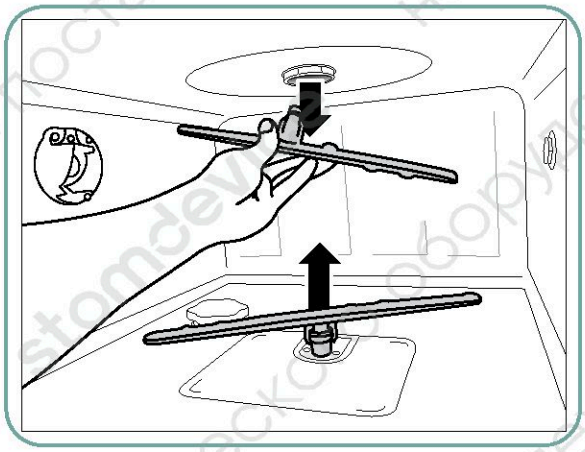


Filter maintenance

Inspect the coarse and fine filters in the bottom of the chamber daily for debris and clean if necessary. To clean, remove the filter (turn the metal nut at the centre front of the filter to release it), rinse under a tap and reassemble. Ensure that the filter is firmly locked into position when replaced.

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6. Care and Maintenance



Wash arm maintenance:

If you see that the wash arms are not turning easily, remove the arm(s) as needed – excessive removal of wash arms can reduce service life. Both the upper and lower arms are pressure mounted.
To remove the upper arm, pull down and to remove the lower arm, pull up. Rinse under a tap, clear obstructions from outlet holes and reassemble.

6.5 Cleaning the unit

To clean outer surfaces and the decal covering the touchscreen, use a soft cloth moistened with soap and water or a surface disinfectant. Do not use harsh cleaning chemicals.
To clean the chamber, use the “Cleaning” function available in the user menu with 0.5 L of vinegar or citric acid in the chamber. See section 4.8 for details.

NOTE: Every 25 cycles, the user will be reminded to run a chamber cleaning cycle. Press OK to continue the selected wash cycle but remember to run a chamber cleaning cycle at the next available opportunity.

6.6 Preparing the unit for shipping



If preparing the unit for transport or storage, waste water should be removed from the sump. Waste water in the unit may contain biological contaminants. From the Setup menu, select the Prepare for Shipping function. The unit will pump all the waste water from the sump. If a small amount remains, soak it up with absorbent material. Wear disposable rubber gloves. Dispose of absorbent material according to biological waste disposal regulations.

If the unit is without power, use the drain tube located under the front of the unit in the middle to drain the water from the chamber and system. Then unlock the door using the door lever (see section 4.9) and remove the coarse filter and fine filter (see section 6.4) and use absorbent material to soak up any water remaining in the sump.

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6. Care and Maintenance

6.7 Annual maintenance

If the message “Preventative Maintenance Required. Call for Service” appears, the annual maintenance is required. To continue using the HYDR*/M*, press OK. Call for service as soon as possible. The annual maintenance should be done after 365 days have elapsed since the initial installation or since the last service call was performed.

6.8 Unit testing and validation

The following outlines the recommended regular maintenance to be performed by the user and technicians for the HYDR*/M* C61wd G4 washer-disinfector.

To ensure the unit's ongoing cleaning efficacy, we recommend observing the following periodic testing protocols.

IMPORTANT NOTES:
This document outlines the minimum requirements to ensure that the equipment performs to specification. In some regions, local/national guidance documents may require additional testing. Please contact your dealer or local medical authorities for details.

- Installation, commissioning, annual servicing **MUST** be undertaken by our approved technicians. Failure to maintain this equipment may invalidate the results of the following testing regime.

The recommended periodic testing protocols are listed in the table below:

When	Who	What Tests
Upon installation	By an approved technician	• Commissioning/Installation testing as outlined in the installation document included with the unit. • First validation if required by local regulations.
Daily tests and checks	By the user	• door lock check • wash arm rotation check • door seal check • load carrier check • check and clean chamber filters • visual examination (inspection under magnification) of each load for residual soil.
Annually	By an approved technician	• Annual maintenance schedule as outlined in the service manual
Annually	By an approved technician	• Re-validation if required by local regulations.

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6. Care and Maintenance

Tests to be performed by the user:

Door lock check
This test is to ensure that the door cannot be opened while a cycle is running or a cycle will not start with the door open. To check that these features are working correctly, attempt to open the door using the handle immediately after a cycle has started. **Caution – DO NOT attempt this when the wash arms are rotating and/or the water is above ambient temperature.** The door should not open. When you attempt to start a cycle with the door open, the cycle should not start. If the unit fails this test, stop using it immediately and call your dealer for technical service.

Door seal check
Visually check the door seal for debris or wear. If the seal is worn or damaged, call your dealer for technical service.

Load carrier check
Visually check load carriers (trolleys) for wear and tear, damage and that the runners move freely over their full range.

Chamber filter check
Remove, visually check and clean as described in section 6.4.

Load check
Visually inspect each load for residual soil. Washers are designed to ensure that the surfaces of instruments are free from debris that may compromise the sterilization process. A visual check of the instruments processed in each load should be undertaken prior to sterilization to ensure that no residual debris is present on the instrument.

If debris is still apparent, the instrument should not be considered clean and should be reprocessed through the HYDR*/M* again prior to sterilization.

NOTE: Some set-able materials such as cements and composites, if set on the instrument will not be removed in a HYDR*/M*. If these materials are noticed on the instrument then abrasive removal may be required.

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7. Troubleshooting

Problem	Possible Causes and Solutions
Instruments are not clean	• Do not overload cassettes or instrument baskets. • Do not load too many cassettes into the HYDR*IM*. • Use the Heavy Duty cycle for cassettes and hinged instruments. • Check filters and wash arms for debris. • Increase wash times. See section 4.8.
Touchscreen / Unit does not come on	• Ensure that the power button is turned ON. • Ensure that the plug is properly inserted into the wall socket. • Check if a fuse or circuit is blown – call service for assistance. NOTE: Fuses should NOT be replaced by the operator. Call an authorized service technician for assistance. For continued protection against the risk of fire, replace only with 15A, 250V type F fuses.
The wash arms do not rotate	• Remove the wash arms, clean and reinstall them. • Check for obstructions in chamber.
The door cannot be opened	• The cycle is not complete. • The cycle was aborted and the unit has not completed draining yet.
Operating cycles appear to be taking too long to complete	• The water is not hot enough. Check that the incoming hot water temperature is in the recommended range. • Check that the hot and cold hoses are not reversed.
"No detergent" message comes on but there is still a lot of chemical left in the container	• Check for a kink in chemical tubing. • Check cap for seal. • Reinstall chemical solution, see section 6.1
Drying performance is inadequate	• Increase the drying time. See section 4.8. • Change the HEPA filter. spare part#: 01-113277S Filter-Air, C61

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7. Troubleshooting

Problem	Possible Causes and Solutions
"Preventative Maintenance Required. Call for Service" message appears	The annual maintenance should be done after 365 days have elapsed since the initial installation or the last service call was performed. Call for service.
"Replace Air Filter" message appears	• Replace HEPA filter. See section 6.3. • If filter was replaced and message continues to appear, reset drying counter. See section 3.11.
"Replace LCS Filter" message appears	• Replace biological filter. See section 6.3. • If filter was replaced and message continues to appear, reset LCS counter. See section 3.12.
"Air Filter Missing. Install Filter"	• Check HEPA filter to ensure it is installed correctly (with arrow in correct position).
Lost USB storage device with all cycle data	If you need to copy all of the unit's cycle data to a new USB storage device: 1. Insert the new USB device. 2. Select the USB icon. 3. Select cycle information. 4. From the cycle information screen, select the USB icon at top right. 5. Select copy and all of the unit's cycle history will be copied to the new device.
No Internet Connection	Select the connectivity icon to go to the connection status screen. • If a red X appears next to IP: You do not have a network connection. Contact your network administrator. • If a red X appears next to Internet: You do not have an Internet connection. Contact your Internet provider.

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7. Troubleshooting

Error Messages

Error	What it Means	What to Do
CF1 Water Heating failure	The water does not reach the required temperature in the specified time.	• Call for service.
CF2 Chamber Filling Failure	The water does not fill the chamber within the specified time.	• Check that the water hoses are not kinked. Open the water shut-off valves.
CF3 Chamber temperature reading failure	Faulty sensor.	• Call for service.
CF4 Water evacuation failure	Water cannot drain from the unit.	• Check that the drain hose is not kinked. • Check that the filters in the bottom of the chamber are not obstructed. • Check that the drain outlet is within the specified height noted in the installation manual.
CF5 Disinfection Failure	Temperature dropped below 90°C during the disinfection phase.	• Call for service.
CF7 Cycle Aborted or Interrupted	Power failure.	• Restore power to the unit. • Restart program.
CF8 Air Heater Failure	Air Temperature dropped during the drying phase	• Call for service.
CF9	System failure	• Call for service.
CF10 Drying System Error	Problem with drying.	• Call for service.
CF11 Dosing System Error	Problem with detergent system.	• Call for service.

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7. Troubleshooting

Error	What it Means	What to Do
CF12 Water Filter Clogged (for models equipped with LCS only)	Problem with Lumens Cleaning System	• Check that LCS adaptor is properly seated in chamber. • You selected LCS at program start but LCS is not installed • If message persists, call for service.
CF13 Temperature Validation Error		• Call for service.
CF14 Prewash Water Too Hot	Prewash Water too hot	• Check that water hoses (Hot/Cold) are not reversed. Restart cycle.
CF15 Water Reservoir Overflow	Water reservoir overflow switch triggered.	• Restart program. • Call for service.
CF16 Ambient Temperature Error	Unit is too hot or has overheated.	• The room or enclosure is too warm and not allowing the unit to adequately cool. • If message persists, call for service.
CF17 Air Drying Error	Drying system overheated.	• Check HEPA filter • Check if air exhaust is blocked • If message persists, call for service.
CF18 Water Filter Pressure Sensor Stuck (for wd models equipped with LCS only)	Problem with Lumens Cleaning System	• Call for service.

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7. Troubleshooting

Error	What it Means	What to Do
CF21 Dosing Pump Failure	Chemical dispensing system error.	• Tighten detergent cap. • Check for detergent leak. • If message persists, call for service.
CF22 Air Temperature Error.	Faulty sensor	• Call for service.
CF23 Top wash arm low RPM	Top wash arm speed too low.	• Check that load is not blocking wash arm. • Check all holes in wash arms for debris. • If message persists, call for service.
CF24 Bottom wash arm low RPM	Bottom wash arm speed too low.	• Check that load is not blocking wash arm. • Check all holes in wash arms for debris. • If message persists, call for service.
CF25 Reference voltage Error	System failure	• Call for service.
CF26 Air Valve Error	Problem with air pressure in air line.	• Call for service.
CF27 Hardware Error	Hardware failure	• Call for service.

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8. Warranty

Limited Warranty

For a period of one year, the legal manufacturer guarantees that the HYDR*/M* C61wd G4, when manufactured 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 the legal manufacturer's option and without charge, of any defective part(s), provided the legal manufacturer 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 the legal manufacturer prepaid.

This warranty shall be considered to be validated, if the product is accompanied by the original purchase invoice from the authorized 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 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 the legal manufacturer.

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 manufactured products is excluded and disclaimed by the legal manufacturer.

To register your product warranty, go to Scican.com, click on the appropriate country, and then click on the Register Your Warranty tab.

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9. Specifications

Machine dimensions:	Length:	52 cm	20.5"
	Width:	59.8 cm	23.5"
	Depth:	52.6 cm	20.7"
	Depth with door open:	82.9 cm	32.6"
Weight :		44 kg	97 lbs
Running noise:		65 dB	
Hot and cold water connections		G 3/4"	
Inlet water pressure:		1-10 bar	
Incoming hot water temperature:		60°C	140°F
Drain:		3/4"	
Drying system:		Heater 1 kW	
Electrical connection:		200-230VAC ±10%, single-phase, 50 Hz, 12A 60 Hz, 12A	
Protection class:		Class I	
Equipment pollution degree:		Pollution degree 2	
Equipment installation category:		Installation category II	
Maximum relative humidity:		80% for temp up to 31°C/88°F 50% for temp up to 40°C/104°F	
Operating temperature range:		5°C - 40°C	41°-104°F
Max. altitude:		2000 m	6,562 feet
Mains supply:		+ / -10% of nominal	
Fuses:		15A, 250V, Type F	

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10. Software Product License

This Software Product Agreement is made as of the date of delivery ("**Effective Date**") to Customer of the equipment containing the Software Product (the "**Equipment**") by and between the legal manufacturer and the purchaser or lessee of the Equipment and each of its end users (collectively, "**Customer**"). "**Software Product**" means all proprietary software contained in the Equipment.

This Software Product License constitutes the entire agreement ("**Agreement**") between the Legal Manufacturer and the Customer concerning Customer's use of the Software Product. No purchase order which purports to modify or supplement this Agreement will add to or vary the terms of this Agreement even if signed or initialed by the Legal Manufacturer.

ARTICLE 1 - INTERPRETATION

1.1 Definitions

(a) "**Affiliate**" will mean any affiliated entity, which Controls, is Controlled by, or is under common Control with Customer.

(b) "**Confidential Information**" will mean non-public, commercially sensitive information of each of the parties and, in the case of the legal manufacturer, the Software Product, Updates, Documentation, and all information which is marked as confidential or proprietary at the time of disclosure.

(c) "**Control**" will mean the possession, directly or indirectly, of the power to direct or cause the direction of the management and operating policies of an entity through the ownership of voting securities (at least fifty-one percent (51%) of its voting or equity securities), contract, voting trust, or otherwise.

(d) "**Documentation**" will mean the user manuals relating to the use of the Software Product and the Equipment delivered with the Equipment.

(e) " **Licensors**" will mean third parties which have granted the legal manufacturer distribution rights with respect to their software.

(f) "**Updates**" will mean modifications made by the legal manufacturer to the Software Product that the legal manufacturer generally makes available at no additional charge to its customers who are current subscribers for support services and who are current in payment of support services fees, if any. Updates become part of the Software Product for purposes of this Agreement.

ARTICLE 2 - LICENSE

2.1 License Grant

Subject to the terms and conditions of this Agreement, the legal manufacturer grants Customer a perpetual, fully paid, non-exclusive, and non-transferable license to use the Software Product, solely at Customer's site, solely in connection with the operation of the Equipment for Customer's internal business purposes.

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10. Software Product License

ARTICLE 3 - LICENSE RESTRICTIONS

3.1 Restrictions

Except as expressly authorized herein, Customer will not engage in or permit any:

(a) copying or modification of the Software Product or Documentation;

(b) reverse engineering, decompilation, translation, disassembly, or discovery of the source code of all or any portion of the Software Product;

(c) distribution, disclosure, marketing, rental, leasing or service bureau use or transfer to any third party of the Software Product or the Documentation, except as part and parcel of the sale of the Equipment containing the Software Product;

(d) disclosure of the results of Equipment or Software Product performance benchmarks to any third party without the legal manufacturer's prior written consent; or

(e) disclosure of any source code (if any) provided hereunder to any third party.

ARTICLE 4 - UPDATES

4.1 Updates

(a) Provided Customer has opened an account and provided all requested information to the legal manufacturer, and, if applicable, paid the associated fees for Updates, the legal manufacturer will provide Updates for the Software Product in accordance with the legal manufacturer's Update policies and procedures of general application. Prior to discontinuing Updates for the Software Product, the legal manufacturer will provide Customer with at least six (6) months advance notice. Customer will allow the legal manufacturer to use remote access software to aid in the resolution of problems or questions. Update fees, if any, will be billed on an annual basis payable in advance.

(b) The legal manufacturer will have no obligation to provide Updates or assistance if Customer fails to make any required payment or otherwise elects to discontinue Update services. In order to reinstate or renew support services, Customer must first pay the legal manufacturer the then current annual Updates services fee and all past unpaid Updates services fees and agree that all past Updates will be loaded on the Equipment.

(c) The legal manufacturer will have no obligation to provide Updates for any (i) altered, damaged or modified Equipment or Software Product, (ii) Software Product that is not the then-current or previous sequential release, (iii) Software Product problems caused by Customer's negligence or other causes beyond the control of the legal manufacturer, or (iv) a failure that cannot be reproduced at the legal manufacturer's facility or via remote access to the Customer's facility.

ARTICLE 5 - OWNERSHIP

5.1 Ownership

The legal manufacturer retains all right, title and interest in the Software Product, Updates, and Documentation and any copies thereof. Except as otherwise expressly granted in this Agreement, no license, right or interest in any trade mark, copyright, trade name or service mark is granted hereunder.

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ARTICLE 6 - PATENT AND COPYRIGHT INDEMNITY

6.1 Indemnity

The legal manufacturer will defend and indemnify Customer for all costs (including reasonable attorney fees) arising from a claim that Software Product furnished and used within the scope of this Agreement infringes a registered copyright or patent provided that:

(a) Customer notifies the legal manufacturer in writing within thirty (30) days of the claim;

(b) The legal manufacturer has sole control of the defense and all related settlement negotiations, and

(c) Customer provides the legal manufacturer with the assistance, information, and authority necessary to perform the above.

Reasonable expenses incurred by Customer in providing such assistance will be reimbursed by the legal manufacturer.

6.2 Exception

The legal manufacturer will have no liability for any claim of infringement based on:

(a) use of a superseded or modified release of the Software Product (except for such alterations or modifications which have been made by the legal manufacturer or under the legal manufacturer's direction) if such infringement would have been avoided by the use of a current unaltered release of the Software Product; or

(b) the combination, operation, or use of the Software Product with hardware, programs or data not furnished or otherwise approved by the legal manufacturer if such infringement would have been avoided by the use of the Software Product without such hardware, programs or data.

6.3 The legal manufacturer's Obligation

In the event the Software Product is held or believed by the legal manufacturer to infringe, or Customer's use of the Software Product is enjoined, the legal manufacturer will have the option, at its expense, to:

(a) modify the Software Product to be non-infringing; or

(b) obtain for Customer a license to continue using the Software Product; or

(c) substitute the Software Product with other software reasonably suitable to operate the Equipment; or

(d) if none of the foregoing remedies are commercially feasible, terminate the license for the infringing Software Product and refund the price of the affected Equipment, prorated over a five-year term calculated from the Effective Date.

6.4 Entire Liability for Infringement

This Article 6 states the legal manufacturer's entire liability for infringement or misappropriation of intellectual property rights.

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10. Software Product License

ARTICLE 7 - WARRANTY

7.1 Warranty

The legal manufacturer warrants that it has title to and/or the authority to grant licenses of the Software Product. Customer's exclusive remedy with respect to breach of this provision will be pursuant to Article 6 (Patent and Copyright Indemnity).

7.2 Functionality

The legal manufacturer warrants for a period of ninety (90) days from the Effective Date that the Software Product, unless modified by Customer and provided that all Updates have been installed, will perform, in all material aspects, the functions described in the Documentation when operated on the related Equipment.

7.3 Services

The legal manufacturer reserves the right to charge Customer for services performed by the legal manufacturer in connection with reported failures which are later determined to be caused by operator error, untrained users, site electrical malfunction, software or hardware not supplied or recommended by the legal manufacturer or by alterations or additions to the Equipment or the Software Product other than by way of Updates or by persons other than the legal manufacturer employees or consultants.

7.4 DISCLAIMER

THE WARRANTIES ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABLE QUALITY, MERCHANTABILITY, NON-INFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE.

ARTICLE 8 - LIMITATION OF LIABILITY

8.1 LIMITED LIABILITY

EXCEPT AS PROVIDED IN ARTICLE 6 (PATENT AND COPYRIGHT INDEMNITY), THE LEGAL MANUFACTURER'S LIABILITY FOR DAMAGES UNDER THIS AGREEMENT WILL IN NO EVENT EXCEED THE AMOUNT PAID BY LICENSEE TO THE LEGAL MANUFACTURER FOR THE EQUIPMENT IN CONNECTION WITH WHICH THE CLAIM AROSE. IN NO EVENT WILL THE LEGAL MANUFACTURER BE LIABLE FOR INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST DATA OR LOST PROFITS, HOWEVER ARISING, EVEN IF IT HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL THE LEGAL MANUFACTURER LICENSORS BE LIABLE FOR ANY DIRECT, SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR EXEMPLARY DAMAGES ARISING OUT OF THIS AGREEMENT, REGARDLESS OF THE FORM OF ACTION WHETHER BASED IN CONTRACT, TORT, OR ANY LEGAL THEORY. THE PARTIES AGREE TO THE ALLOCATION OF LIABILITY RISK WHICH IS SET FORTH IN THIS SECTION 8.1.

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10. Software Product License

ARTICLE 9 - CONFIDENTIALITY

9.1 Maintain Confidentiality

By virtue of the account with the legal manufacturer that the Customer will open for purposes of registering the legal manufacturer Equipment and obtaining Updates, the legal manufacturer will obtain and possess Confidential Information and personal information relating to the Customer. Customer information that the legal manufacturer obtains does not include local area network ("**LAN**") topology or information about other devices connected to the LAN. Personal information that the legal manufacturer obtains will include the names of persons to whom emails may be sent by the legal manufacturer respecting the functioning of the Equipment and the Updates. Each of the parties acknowledges to the other that by virtue of their licensing and Update services relationship it may have access to Confidential Information of the other party. The parties agree, both during the term of this Agreement and after termination, to hold each other's Confidential Information in confidence.
The Software Product shall be treated as confidential in perpetuity. The parties agree not to make each other's Confidential Information available in any form to any third party (other than those of its employees or consultants under nondisclosure obligations) or to use each other's Confidential Information for any purpose other than as contemplated by this Agreement. Each party will take commercially reasonable steps to ensure that Confidential Information is not disclosed or distributed by its employees or consultants in violation of the provisions of this Article 9. The parties agree that the terms and conditions of this Agreement are considered confidential.

9.2 Exception

Notwithstanding any provision contained in this Agreement, neither party will be required to maintain in confidence any of the following information:

(a) information which, at the time of disclosure to the receiving party, is in the public domain;

(b) information which, after disclosure, becomes part of the public domain, except by breach of this Agreement;

(c) information which was in the receiving party's possession at the time of disclosure, and which was not acquired, directly or indirectly, from the disclosing party;

(d) information which the receiving party can demonstrate resulted from its own research and development, independent of disclosure from the disclosing party;

(e) information which the receiving party receives from third parties, provided such information was not obtained by such third parties from the disclosing party on a confidential basis; or

(f) information which is produced in compliance with applicable law or a court order, provided the other party is given reasonable notice of such law or order and an opportunity to attempt to preclude or limit such production.

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10. Software Product License

ARTICLE 10 - GENERAL

10.1 Law and Venue

This Agreement will be governed and construed under the laws of the Province of Ontario and the applicable federal laws of Canada. In no event will this Agreement be governed by the United Nations Convention on Contracts for the International Sale of Goods.

10.2 Notices

All notices will be in writing and sent by first class mail, overnight courier, or transmitted by facsimile and confirmed by mailing, to the addresses indicated on the first page of this Agreement, or such other address as either party may indicate by at least ten (10) days prior written notice to the other party. Notices to the legal manufacturer will be sent to **privacy@scican.com**. Notice will be deemed to have been given upon personal delivery (in the case of overnight courier or facsimile) or five (5) business days after being sent by first class mail or on the next business day if sent by facsimile.

10.3 Assignment

Customer may not assign this Agreement (by operation of law or otherwise) or sublicense the Software Product without the prior written consent of the legal manufacturer. Customer may, however, sell or otherwise dispose of the Equipment with the Software Product loaded onto its internal operating system. **Customer acknowledges that no Upgrades will be available for any equipment that is sold or disposed of unless the purchaser or recipient opens an account for Upgrades with the legal manufacturer and pays the appropriate fees.** Any prohibited assignment or sublicense of the Software Product will be null and void. The foregoing notwithstanding, upon written notice to the legal manufacturer, Customer may assign, or otherwise transfer this Agreement to an Affiliate of Customer, provided such Affiliate agrees with the legal manufacturer to be bound by the terms and conditions of this Agreement.

10.4 Legal Costs

If any legal action, including arbitration, is required in order to enforce or interpret any of the provisions of this Agreement, the prevailing party in such action will recover all reasonable costs and expenses, including attorney's fees, incurred in connection therewith.

10.5 Extraordinary Relief

Each party acknowledges that any breach of its obligations with respect to the proprietary rights of the other party or such party's licensors may cause such other party irreparable injury for which there may be inadequate remedies at law and that such other party and its licensors will be entitled to injunctive relief, in addition to all other remedies available to it.

10.6 Headings

The article and section headings herein are provided for convenience only and have no substantive effect on the construction of this Agreement.

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10. Software Product License

10.7 Force Majeure

Neither party will be liable for any failure to perform due to causes beyond its reasonable control.

10.8 Severability

If any provision of this Agreement is held to be unenforceable, the parties will substitute for the affected provision an enforceable provision, which approximates the intent and economic effect of the affected provision.

10.9 Non-Waiver

The failure by a party to exercise any right hereunder will not operate as a waiver of such party's right to exercise such right or any other right in the future.

10.10 Amendment

This Agreement may be amended only by a written document executed by a duly authorized representative of each of the parties.

10.11 Exclusive Agreement

This Agreement replaces and supersedes any prior verbal understandings, written communications or representations.

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11. WiFi – Regulatory Information

1. Read first — regulatory information

Read this document before using your unit. This unit complies with the radio frequency, safety standards and regulations of the countries that have approved its importation. Contact us for the latest list of approved countries. Install and use your unit according to the following instructions.

IMPORTANT NOTE: To comply with FCC* & IC RF** exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

*FCC (Federal Communications Commission)
**IC RF (Industry Canada Radiofrequency)

2. HYDR*IM* Wireless adapter

The HYDR*IM* unit includes a Wi-Fi IEEE 802.11b,g,n module that allows functions that were previously available only when using a wired interface.

The wireless adapter supports connection to IEEE 802.11b,g,n networks, WPA™ Personal and WPA2™ Personal (EAP* Types: EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC ,EAP-FAST). The WiFi module uses the frequency range 2412-2462MHz and has a maximum 0.111W RF Output power.
*Extensible Authentication Protocol

While the HYDRIM unit is connected to a WiFi network, the security of the connection depends on the configuration of the Wireless infrastructure (router or access point).

Securing your Wi-Fi® connections is an important element of securing your personal data. A Wi-Fi network using WPA2™ provides both security (you can control who connects) and privacy (the transmissions cannot be read by others) for communications as they travel across your network. For maximum security, your network should include only devices with the latest in security technology – Wi-Fi Protected Access® 2 (WPA2). Wi-Fi CERTIFIED™ devices implement WPA2. See more at: http://www.wi-fi.org/discover-wi-fi/security#sthash.tk28zkHJ.dpuf

Most access points, routers, and gateways are shipped with a default network name (SSID), and administrative credentials (username and password) to make configuration as simple as possible. These default settings should be changed as soon as you set up your network.

See more at: http://www.wi-fi.org/discover-wi-fi/security#sthash.tk28zkHJ.dpuf

It's also important to consider employing other measures to secure your communications after they travel beyond your Wi-Fi network.

See more at: http://www.wi-fi.org/discover-wi-fi/security#sthash.tk28zkHJ.dpuf.

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11. WiFi – Regulatory Information

Tips on securing a new network

- Change the network name (SSID) from the default name
- Change the administrative credentials (username and password) that control the configuration settings of your Access Point/Router/Gateway
- Enable WPA2-Personal (aka WPA2-PSK) with AES encryption
- Create a network passphrase that meets recommended guidelines
- Enable WPA2 security features on your client device and enter the passphrase for your network

See more at: http://www.wi-fi.org/discover-wi-fi/security#sthash.tk28zkHJ.dpuf

2.1. Checking security on an existing network

When you add a new device to your Wi-Fi network, it's a great time to make sure you're taking advantage of the highest level of security. Take the opportunity to ensure your network is configured for WPA2.

If your network was set up some time ago, or a service provider (e.g. consultant or cable provider) configured your network, it may be worth checking that it's configured for the highest level of security. If your network is configured for an older generation of security (WEP or WPA), Wi-Fi Alliance® recommends you move to WPA2. WPA2 has been required on all Wi-Fi CERTIFIED products since 2006 – the vast majority of Wi-Fi CERTIFIED devices in service today are capable of WPA2.

2.2. Passphrase quality & lifespan

A secure network passphrase greatly enhances network security, so it is important to select an effective passphrase. In general, increasing length, complexity and randomness all improve the quality of a passphrase. Wi-Fi Alliance recommends that a passphrase is at least eight characters long, and includes a mixture of upper and lower case letters and symbols. A passphrase should not contain a word found in a dictionary and should not include personal information (identification number, name, address, etc).

Periodically changing the passphrase on your network also increases security.

See more at: http://www.wi-fi.org/discover-wi-fi/security#sthash.tk28zkHJ.dpuf

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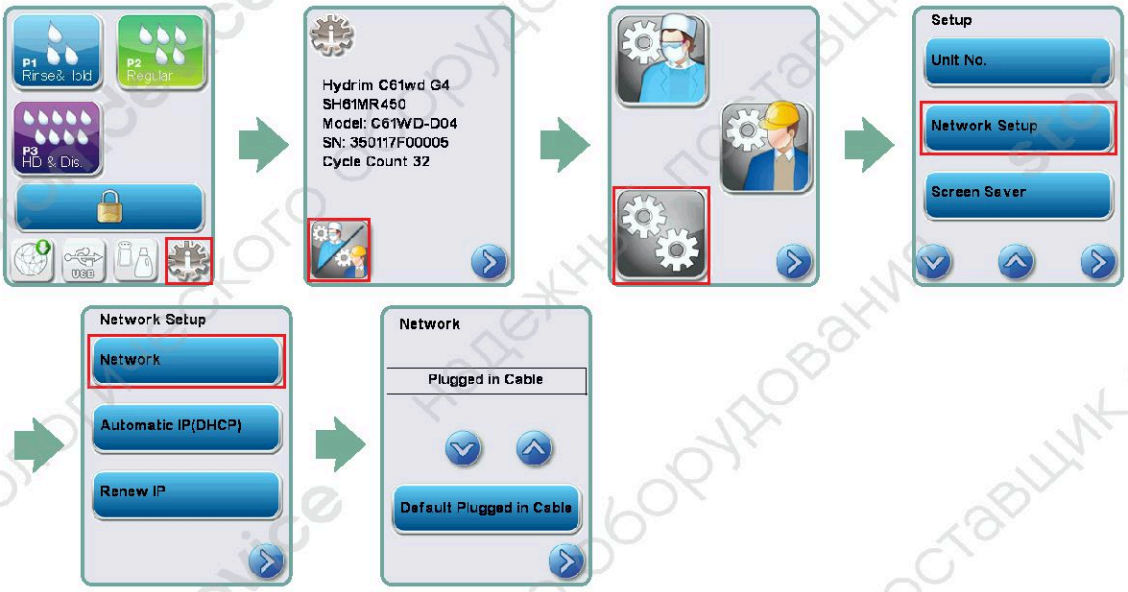
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11. WiFi – Regulatory Information

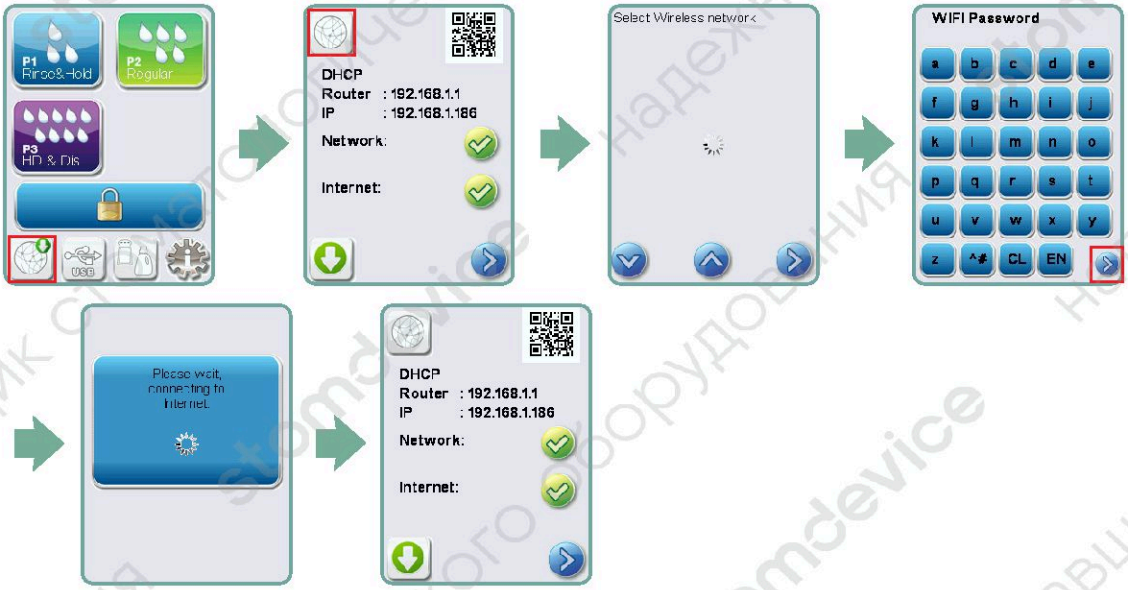
2.3. Wireless Setup

The HYDR*IM* unit allows for Wireless or Wired connections, but only one type at a time.

2.3.1. Selecting between the Wired and Wireless networks



2.3.2. Connecting to a Wireless network



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11. WiFi – Regulatory Information

3. USA — Federal Communications Commission (FCC)

3.1. Approved wireless devices

This section presents the FCC ID and model number of the wireless device

3.2. Preinstalled wireless LAN adapter

FCC ID: YOPGS2011MIE (Model: GS2011MIE)

3.3. FCC ID location

3.3.1. On the rear side of your HYDR/*M* unit, you will find an indicator label of the format "Contains FCC ID YOPGS2011MIE", where YOPGS2011MIE represents the FCC ID that corresponds to your preinstalled Wireless LAN module.

3.4. FCC RF Exposure compliance

The total radiated energy from the Main antenna connected to the Wireless Card conforms to the FCC limit of the SAR (Specific Absorption Rate) requirement regarding 47 CFR Part 2 section 1093, when the unit was tested. The transmission antenna for the Wireless Card are located in the front fascia.

3.5. Radio Frequency interference requirements

The device has been tested and found to comply with the limits for a Class B digital device pursuant to FCC Part 15 Subpart B.

Due to differences in channel allocation, if you cannot connect using the WIFI device, it may be because these channels are not available in your region or due to interference. If this occurs, the Ethernet connection should be used.

4. Canada — Industry Canada (IC)

4.1. Approved wireless devices

This section presents the IC Certification and model number of each wireless device.

4.2. Preinstalled wireless LAN adapter

IC:9154A-GS2011MIE (Model GS2011MIE)

4.3. Low power license-exempt radio communication devices (RSS-210)

Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device. The transmitter devices have been designed to operate with the antennas integrated in the unit, and having a maximum gain of within 3 dBi.

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11. WiFi – Regulatory Information

4.4. Exposure of humans to RF fields (RSS-102)

The HYDR*/M* unit employs low gain integral antenna that do not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site at http://www.hc-sc.gc.ca/

The radiated energy from the antennas connected to the wireless adapters conforms to the IC limit of the RF exposure requirement regarding IC RSS-102, Issue 2 clause 4.1

5. Regulatory Compliance Information

5.1. Federal Communications Commission (FCC) Declaration of Conformity

Note: The wireless adapters (Model: GS2011MIE) underwent certification process for the FCC Part 15 Subpart B compliance under the respective FCC ID number.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an authorized dealer or service representative for help.

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11. WiFi – Regulatory Information

The legal manufacturer is not responsible for any radio or television interference caused by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:
Dent4You AG
Bahnhofstrasse 2
CH-9435 Heerbrugg

5.2. Industry Canada Class B Emission Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

5.3 Europe: EU Declaration of Conformity

This product complies with the requirements of the following EU Directive: EUROPEAN DIRECTIVE 2014/53/EU (Radio Equipment Directive). Compliance to this directive implies conformity to harmonized EU standards that are noted in the EU Declaration of Conformity.

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