



HYDREDDI

HYDROTHERAPY. ALWAYS READY.

Installation and Operating Instructions

Save these instructions for future use

Owner Information

Spa Model Name _____

Spa Serial Number _____

Spa Purchase Date _____

Distributor _____

NEW PART #11-9020-01
Revision 06/24/2015

TABLE OF CONTENTS

Congratulations	1
Important Safety Instructions	2
Specifications	4
Rough In Measurements.....	4
Installation Instructions	6
Structural Preparation.....	8
Plumbing.....	10
Electrical Installation.....	10
Operation of Hydreddi Series	11
Bath/Spa Side Control.....	12
Main Menus	12
Fill It Up	13
Preparation and Filling.....	13
Priming Mode.....	13
Priming the Pumps.....	14
Exiting Priming Mode.....	14
Spa Behavior	15
Pumps.....	15
Circulation Pump Modes.....	15
Filtration and Ozone.....	15
Freeze Protection.....	16
Clean Up Cycle (Optional).....	16
Temperature and Temp Range	16
Adjusting the Set Temperature.....	16
Mode-Ready and Rest	17
Circulation Mode.....	17
Ready-In-Rest Mode.....	17
Show and Set Time of Day	18
Flip (Invert Display)	18
Adjusting Filtration (Spa Mode Only)	19
Main Filtration.....	19
General Messages	20
Primary Mode M019.....	20
Water Temperature Unknown.....	20
Too Cold - Freeze Protection.....	20
Water is too Hot (OHS) - M029.....	20
Safety Trip - Pump Suction Blockage - M033.....	21
Heater Related Messages	21
Heater Flow is Reduced (HFL) - M016.....	21
Heater Flow is Reduced (LF) - M017.....	21
Heater may be Dry (dr) - M028.....	21
Heater is Dry - M027.....	22
Heater is too Hot (OHH) - M030.....	22
A Reset message may Appear with other Messages.....	22
Flow Related Checks.....	22
Sensor Related Messages	22

TABLE OF CONTENTS

SensorBalanceisPoor-M015.....	22
SensorBalanceisPoor-M026.....	23
Sensor Failure - Sensor A: M031, Sensor B : M32.....	23
Miscellaneous Messages.....	23
No Communications.....	23
Pre-Production Software.....	23
°F or °C is replaced by °T.....	23
System Related Changes.....	24
Memory Failure-Checksum Error-M022.....	24
Memory Warning - Persistent Memory Reset - M021.....	24
Memory Failure - Clock Error - M020.....	24
-Not Applicable on the BP 1500.....	24
Configuration Error Spa will not Start Up.....	24
GFCI Failure System Could not Test/Trip the GFCI - M036.....	24
A Pump Appears to be Stuck On - M034.....	25
A Pump Appears to have been stuck On when spa was last powered-M035.....	25
Reminder Messages.....	25
General Maintenance helps.....	25
Appears on a regular schedule, e.g. every 7 days.....	25
Appears on a regular schedule, e.g. every 30 days.....	26
Appears on a regular schedule, e.g. every 90 days.....	26
Appears on a regular schedule, e.g. every 180 days.....	27
Appears on a regular schedule, e.g. every 365 days.....	27
Jet Operations.....	28
Shiatsu-Pro Neck And Back Jetting System.....	28
Pulsating Neck Jet Pillows.....	29
Hydreddi Rotary Massage Elite Jet.....	30
Pressure Plus Jet.....	31
User Information.....	31
Model Number and Serial Number Location.....	32
Maintenance and Care.....	33
Initial Cleaning.....	33
Whirlpool System Cleaning.....	33
Surface Cleaning.....	34
Jet Cleaning.....	34
Surface Scratch Removal.....	34
Repair.....	34
Water Quality Issues.....	35
Microbiological Quality.....	35
Chemical Quality.....	36
Treatment.....	37
Trouble Shooting Guide.....	38
Warranty Coverage and Outline.....	40
Hydreddi Parts List.....	43

CONGRATULATIONS

You have chosen one of the finest bath products in the world! Hydreddi supports your purchase with strong commitments to quality and satisfaction. Please read and follow all of the instructions contained in this Owner's Manual before installing, operating or maintaining your whirlpool. In addition, you should continually refer to these instructions during the life of your whirlpool. Failure to comply with these instructions may invalidate your warranty. If you have any questions concerning installation operation, maintenance or any other aspect of your whirlpool, please contact:

Customer Service Center 800-854-7727

NOTE: The installation and service of your whirlpool should be performed ONLY by a qualified electrician and plumber.

IMPORTANT

This product must be water-tested and inspected prior to installation or warranty will be voided. See page 6 for instructions.

Please check entire unit for any damage. If it appears damaged, contact your Hydreddi distributor immediately. Hydreddi warranty does not cover damage that occurs in transit.

IMPORTANT SAFETY INSTRUCTIONS

Read And Follow All Instructions

Save These Instructions

**Instructions Pertaining To A Risk Of Fire,
Electric Shock Or Injury To Persons**

NOTE: Install this unit in accordance with the state and local electrical code.

CAUTION: This equipment is intended for indoor use only. Install the equipment in accordance with these instructions. Use supply wires that are suitable for 75°C, including the temperature rating of the supply conductors to be used.

WARNING: When using this unit, basic precautions should always be followed, including the following:

DANGER: To reduce the risk of injury, do not permit children to use this unit unless they are closely supervised at all times.

WARNING: Use this unit only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.

WARNING: Never drop or insert any object into any opening.

WARNING: Do not operate this unit without the guard over the suction fitting.

WARNING: This unit must be connected only to a supply circuit that is protected by a 50A Ground/Fault/Circuit/Interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button.

The power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the bathtub without the test button being pushed, a ground current flowing, indicating a possibility of an electric shock. Do not use this hydromassage bathtub. Disconnect the hydromassage bathtub and have the problem corrected by a qualified service representative before using.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: (For permanently connected units) A green-colored terminal (or a wire connector) marked “g” “gr” “ground”, or “grounding” is provided within the terminal compartment. To reduce the risk of electric shock, connect the terminal or connector to the grounding terminal of your electric service or supply panel with a conductor equivalent in size to the circuit conductors supplying this equipment.

WARNING: Prolonged immersion in hot water may induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F. The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness and fainting. The effects of hyperthermia include:

- A) Failure to perceive heat.
- B) Failure to recognize the need to exit the spa or hottub.
- C) Unawareness of impending hazard.
- D) Fetal damage in pregnant women.
- E) Physical inability to exit the spa or hottub.
- F) Unconsciousness resulting in danger of drowning.

WARNING: The use of alcohol, drugs or medication can greatly increase the risk of fatal hyperthermia.

WARNING: Do not tamper with user-operated controls or such devices.

SPECIFICATIONS

IMPORTANT: Read the instructions completely before beginning installation.

Each whirlpool bath arrives ready for installation, completely equipped with motor/pump assembly, plumbing and fittings necessary for whirlpool operation. An optional drain/overflow kit is available for installation on the bath.

Remove the bath from the carton. Retain the shipping carton until satisfactory inspection of the product has been made. Do not lift the bath by plumbing at any time: handle by the shell only.

Immediately upon receipt, inspect the shell before installing. Should inspection reveal any damage or defect in the finish, do not install the bath. Damage or defect to the finish claimed after the bath is installed is excluded from the warranty. Hydreddi's responsibility for shipping damage ceases upon delivery of the products in good order to the carrier. Refer any claims for damage to the carrier. For definitions of warranty coverage and limitations, refer to the published warranty information packed with the product.

All bath units are factory tested for proper operation and watertight connections prior to shipping.

NOTE: Prior to installation, the bath must be filled with water and operated to check for leaks that may have resulted from shipping damage or mishandling.

Hydreddi is not responsible for any defect that could have been discovered, repaired or avoided by following this inspection and testing procedure.

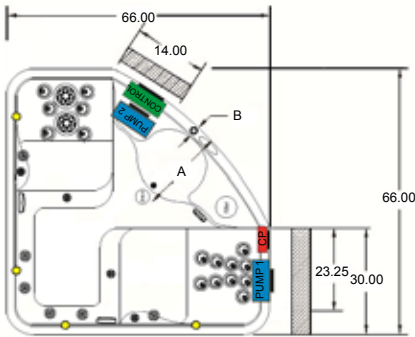
ROUGH IN MEASUREMENTS

NOTE: The manufacturer accepts a 1/4" variance. There are variations on each tub and specifications are subject to change as we improve upon our product as required.

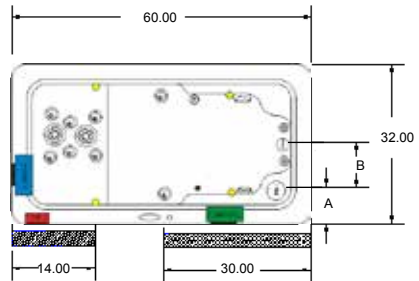
The dimensions needed for site preparation and structure building should be measured from the tub; Hydreddi assumes no responsibility for preparatory work.

SPECIFICATIONS

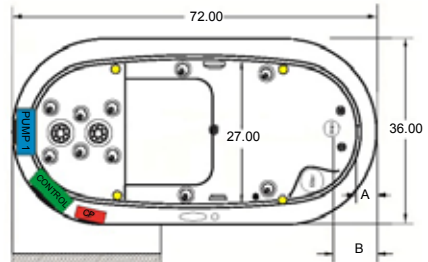
Model	Dimension	Drain Overflow		Weight w/ Equipment	Volume To Overflow	Tub Weight Filled
		A	B			
Chelsea (6032)	60 X 32 X 26 in (152 x 81 x 66 cm)	9 in (22.9 cm)	7 in (17.8 cm)	162lb (74 kg)	78 US gal (295 lt)	804lb (365 kg)
Addison (7242)	72 X 42 X 28 (183 x 107 x 71 cm)	27.5 in (69.9 cm)	5.5 in (14 cm)	243lb (110 kg)	168 US gal (636 lt)	1631lb (740 kg)
Julianne (7254)	72 X 54 X 28 (183 x 137 x 71 cm)	18.5 in (47 cm)	8 in (20.3 cm)	255lb (166 kg)	230 US gal (871 lt)	2164lb (740 kg)
Beverly (7236)	72 X 36 X 28 (183 x 91 x 71 cm)	8.75 in (22.2 cm)	3.875in (9.8 cm)	202lb (92 kg)	135 US gal (511 lt)	1317lb (597 kg)
Madeline (6666)	66 X 66 X 28 (168 x 168 x 71 cm)	22 in (55.9 cm)	3 in (7.6 cm)	260lb (118 kg)	170 US gal (643 lt)	1660lb (753 kg)



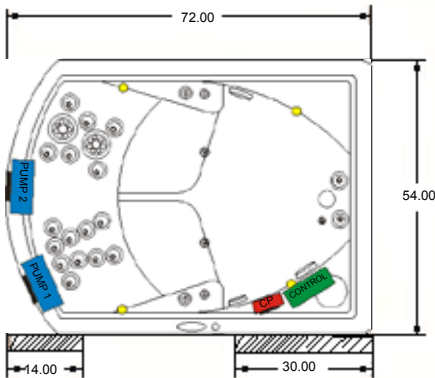
Madeline (6666)



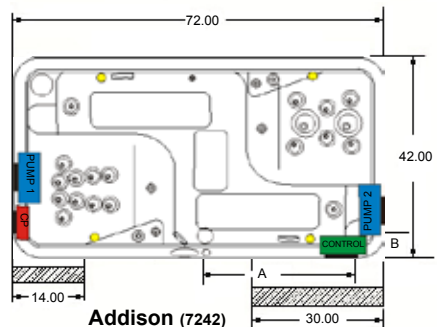
Chelsea (6032)



Beverly (7236)



Julianne (7254)



Addison (7242)

INSTALLATION INSTRUCTIONS

WARNING: When using this unit, basic precautions should always be followed, including the following:

Not suitable for field-installed heater.

DANGER: Risk of electric shock connect only to a circuit protected by a Ground/Fault/Circuit/Interrupter (GFCI).

CAUTION: Test the Ground/Fault/Circuit/Interrupter protecting this appliance periodically in accordance with manufacturer's instructions.

WARNING: To avoid injury, exercise caution when entering or exiting the hydromassage bathtub.

WARNING: Keep body and hair a minimum of 6" (152mm) away from suction fitting at all times when the hydromassage system is operating. Hair longer than shoulder length should be secured close to the head.

WARNING: Risk of electric shock: Do not permit electrical appliances (such as hair dryer, lamp, telephone, radio or television) within 60" (1.5M) of this hydromassage bathtub.

WARNING: Risk of accidental injury or drowning: do not use drugs or alcohol before or during the use of hydromassage bathtub equipped with a heater. To avoid unconsciousness and possible drowning.

WARNING: Risk of fetal injury: pregnant or possibly pregnant women should consult a physician before using a hydromassage bathtub equipped with a heater.

WARNING: Risk of hyperthermia and possible drowning: do not use a hydromassage bathtub equipped with a heater immediately following strenuous exercise.

WARNING: Risk of hyperthermia and possible drowning: water temperature in excess of 104°F (40°C) may be injurious to your health. Check and adjust water temperature before use.

INSTALLATION INSTRUCTIONS

WARNING: Risk of hyperthermia: people using medications and/or having an adverse medical history should consult a physician before using a hydromassage bathtub equipped with a heater.

For built-in and drop-in units, install to permit access for servicing.

This unit should be electrically grounded and installed by a licensed contractor, electrician, and plumber.

Building materials and wiring should be routed away from the motor/pump or blower or other heat product components of this unit.

A pressure wire connector is provided on the exterior of the motor/pump or blower or other heat producing components of this unit.

A pressure wire connector is provided on the exterior of the motor /pump and heater to permit connection of an no.8 Awg (8.4Mm) solid copper bonding conductor between this unit and all other electric equipment and exposed metal in the vicinity, as needed to comply with local requirements.

PRECAUTIONS:

- Do not operate hydromassage system unless the bath is filled with water to at least 1-2" (25-51mm) above highest jet.
- Do not immerse the control panel by overfilling the bath.
- Do not use oil-based bath additives in your hydromassage bath
- When cleaning your bath, do not use abrasive substances which will damage the bath's surface.

NOTE: This is a professional grade product. A knowledge of construction techniques, plumbing and electrical installation according to codes are required for proper installation and user satisfaction. We recommend that a licensed contractor perform the installation of all Hydreddi bath products. Our warranty does not cover improper installation related problems.

Product specifications are subject to change without notice. Use installation instructions supplied with product.

Hydreddi has obtained applicable code (standards) listings generally available on a national basis for products of this type. It is the responsibility of the installer/owner to determine specific local code compliance prior to installation of the product. Hydreddi makes no representation or warranty regarding, and will not be responsible for any code compliance.

INSTALLATION INSTRUCTIONS

STRUCTURAL PREPARATION

NOTE: The bath should remain in its shipping carton until time of installation.

1. Literature dimensions are for reference only. Installation dimensions should be taken directly from the tub. Width of access is indicated by darkline. Height of access is minimum two feet measured from the bottom of lip.

It is the installers's responsibility to provide sufficient service access and to ensure that access panels and/or service openings are properly placed and accessible.

2. Install the drain fitting to the bath. The drain fitting may protrude below the base of the tub. Clearance must be provided for the drain by cutting away the tub floor (where possible) or by blocking below the tub as may be required.

WARNING: All blocking must be solid and provide uniform support to the tub base.

3. Tub must rest entirely on all leveling feet. Do not support the weight of the tub by the rim. Lift unit and place into framework. If necessary, adjust feet until unit is completely touching on the leveled subfloor. Secure the unit by fastening the bottom feet to the sub floor with any construction adhesive caulk or screw the feet to the floor. For quieter operation and heat conservation, the walls surrounding the whirlpool may be insulated.

4. Frame out under the tub rim as shown in one of the illustrations on opposite page.

NOTE: Due to the variety of installations possible, framing procedures other than those described may be required. Plumb in selected location using a level. Level front to back and across both sides.

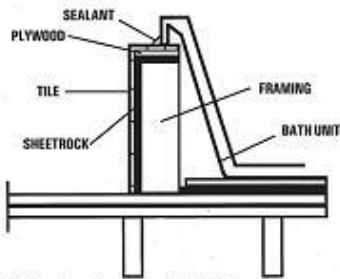
A ledge under the rim, or an apron without a ledge, may be constructed as required (see Diagrams 1A, 1B and 1C). Where installation will be against a wall, stud wall framing as hold allow for wall sheathing material to run full length to the floor (see Diagram 1D).

Install tub firmly against sheathing as indicated, with blocking below rim to prevent deflection or movement of tub. To prevent a rocking movement of tub after installation, it is important to have rim in contact, but not supported by blocking material.

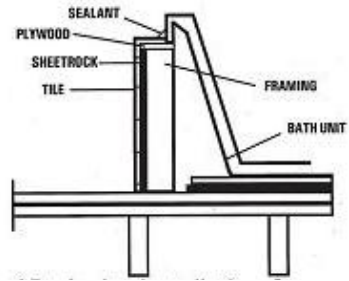
INSTALLATION INSTRUCTIONS

5. When placing the tub on a platform or cutout (see Diagrams 1A, 1B and 1E), the opening should be 1" smaller than the specified rim dimensions. Extreme care must be taken in this type of installation to ensure the tube will come to rest entirely on the leveling feet.

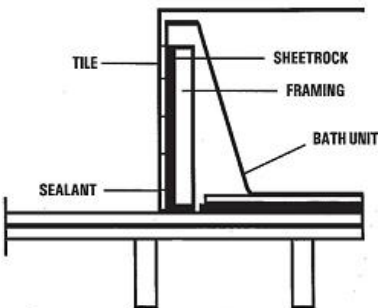
WARNING: All electrical connections should be made by a local licensed electrician.



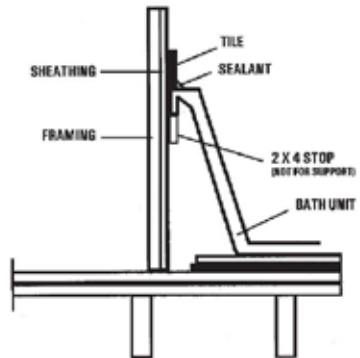
1A Ledge Installation-1



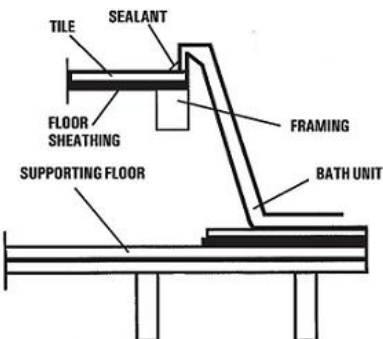
1B Ledge Installation-B



1C Apron Installation



1D Wall Installation



1E Sunken Installation

INSTALLATION INSTRUCTIONS

PLUMBING

1. After securing bath in place, normal waste and overflow and valves are installed per normal plumbing procedures, in accordance with all state and local standards. Canadian standard required min. 60 mm overflow opening from rim.
2. Install standard 1-1/2" trap to drain and overflow. Before proceeding make final operational check by filling tub with water to overflow and operate pumps for 5 minutes. Check for leaks carefully both while pump is running and has been turned off. Allow water to stand in tub for at least 30 minutes before draining. Hydreddi recommends the use of 3/4" valves.
3. All Hydreddi Series models are equipped with an integral Fast-Fill Waterfall Spout (unless ordered without this feature). Purchasing a spout is unnecessary, however, hot and cold water valves are needed. Valves can be mounted where you choose, however, if installation is to be on tub deck, check the back side of the tub for adequate space for connection to water lines before drilling or cutting tub.

NOTE: Hydreddi will not be responsible for water damage of any kind in connection with one of our whirlpool baths.

ELECTRICAL INSTALLATION

WARNING: All electrical connections should be made by a licensed, locally certified electrician, in accordance with the requirements of the national electrical codes and procedures.

WARNING: When using electrical products, basic precautions should always be followed, including the following.

DANGER: RISK OF ELECTRIC SHOCK! Connect only to circuits protected by a Ground/Fault/Circuit/Interrupter (GFCI). A GFCI is not supplied, however, we do specify its use. All known code authorities require a GFCI.

Rough-in wiring to control package: One 220V, 4 wire, 50 AMP GFCI protected circuit.

INSTALLATION INSTRUCTIONS

CAUTION! RISK OF ELECTRIC SHOCK!

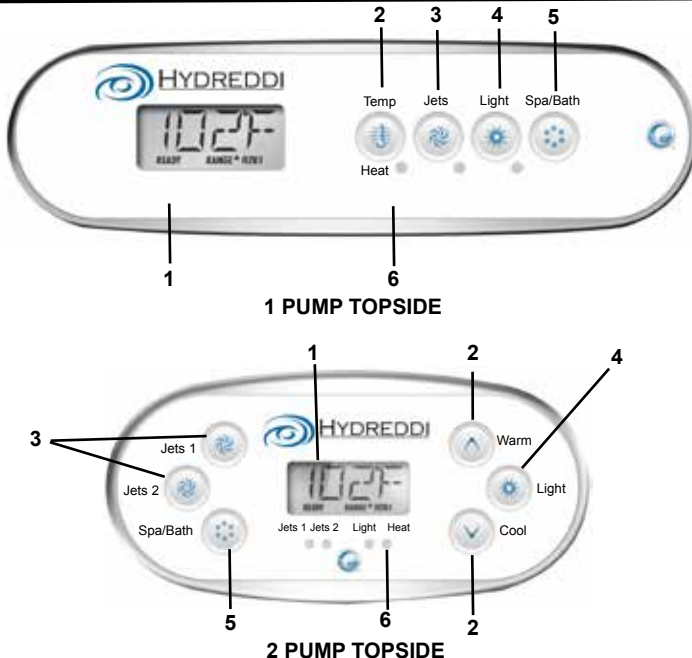
A green colored terminal (or wire connector marked “G”, “GR”, “Ground” or “Grounding”) is provided within the terminal compartment. To reduce the risk of electric shock, connect this terminal or connector to the grounding terminal of your electric service or supply panel with a continuous green insulated copper wire equivalent in size to the circuit conductors supplying this equipment.

A pressure wire connector is provided on the exterior of the terminal box within this unit to permit connection of a NO. 8 AWG (8.4 mm²) solid copper bonding conductor between this unit and all other electrical equipment and exposed metal in the vicinity, as needed to comply with state and local requirements.

Bonding wire: Connect a #8 bare copper bonding wire from the pump motor or motors, heater and light’s ground lug to the cold water plumbing or other suitable ground. Grounding is required. The unit should be installed by a qualified electrician and grounded as specified above.

For built-in and custom units, install to permit access for servicing.

OPERATION OF HYDREDDI SERIES



OPERATION OF HYDREDDI SERIES

1. L.E.D. Display
2. Temperature Button or Warm and Cool Buttons
3. Jets Button
4. Light Button
5. Spa/Bath Mode Activation Button
6. Heat Activation Indicator

WARNING: All Hydreddi Series whirlpools are equipped with a water level sensor. When the water level sensor detects the water level, the circulation pump and heater will automatically turn on to begin regulating the temperature to the set point you have chosen (see section “To Change Temperature”)

WARNING: To avoid self activation of pump after using the whirlpool, do not begin cleaning or wiping down the whirlpool until water has completely drained.

NOTE: Do not start pump until the water level sensor is submerged

BATH/SPA SIDE CONTROL

The main key pad is equipped with a 3 digit display, three status lights and four function keys (Hydreddi 1 Pump); 3 digit display, four status lights, 6 function keys (Hydreddi 2 Pump). All operations are for both modes Spa or Bath unless otherwise indicated.

Bath



Press and hold Bath button for Bath Mode.

MAIN MENUS

Navigating the entire menu structure is done with 2 or 3 buttons on the control panel. The Temperature button is

Temp



indicated by a single button icon.

Light



The LIGHT Button is used to choose the various menus and

navigate each section. Typical use of the Temperature button allows changing the Set Temperature while the numbers are flashing in the LCD.

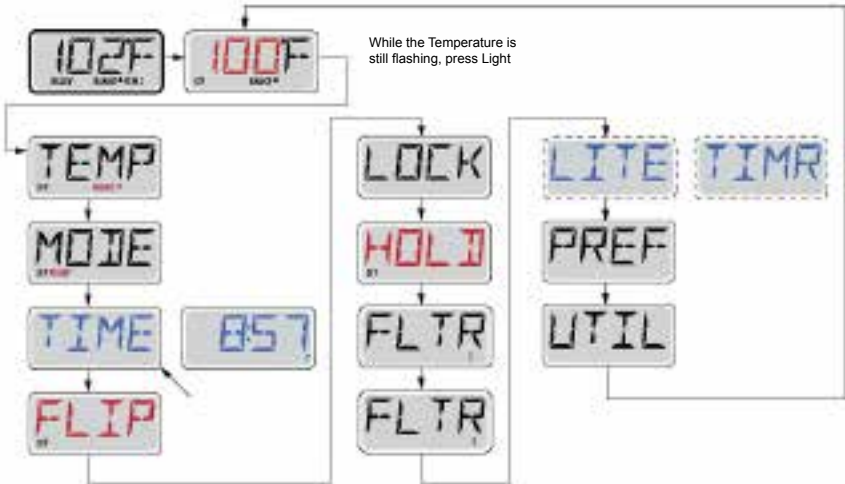
Light



Pressing the LIGHT button while the numbers are flashing will enter the menus.

OPERATION OF HYDREDDI SERIES

The menus can be exited with certain button presses. Simply waiting for several seconds will return the panel operation to normal.



Example of various menus include:

FILL IT UP

PREPARATION AND FILLING

Fill the spa to its correct operating level. Be sure to open all valves and jets in the plumbing system before filling to allow as much air as possible to escape from the plumbing and the control system during the filling process.

After turning the power on at the main power panel, the top-side panel display will go through specific sequences. These sequences are normal and display a variety of information regarding the configuration of the hot tub control

PRIMING MODE – M019*



This mode will last for 4-5 minutes or you can manually exit the priming mode after the pump(s) have primed.

Regardless of whether the priming mode ends automatically or you manually exit the priming mode, the system will automatically return to normal heating and filtering at the end of the priming mode. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can be

OPERATION OF HYDREDDI SERIES

without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can

be energized by pushing the “Jets”



button.

If the spa has a Circ Pump, it can be activated by pressing the

“Light” button during Priming Mode.



PRIMING THE PUMPS

As soon as the above display appears on the panel, push the “Jet” button once to start Pump 1 in low-speed and then again to switch to high-speed. Also, push the Pump 2 or “Aux” button, if you have a 2nd pump, to turn it on. The pumps will now be running in high-speed to facilitate priming. If the pumps have not primed after 2 minutes, and water is not flowing from the jets in the spa, do not allow the pumps to continue to run. Turn off the pumps and repeat the process.

NOTE: Turning the power off and back on again will initiate a new pump priming session. Sometimes momentarily turning the pump off and on will help it to prime. Do not do this more than 5 times. If the pump(s) will not prime, shut off the power to the spa and call for service.

Important: A pump should not be allowed to run without priming for more than 2 minutes. Under NO circumstances should a pump be allowed to run without priming beyond the end of the 4-5 minute priming mode. Doing so may cause damage to the pump and cause the system to energize the heater and go into an overheat condition.

EXITING PRIMING MODE

You can manually exit Priming Mode by pressing the

“Temp” button.



Note that if you do not manually exit the priming mode as described above, the priming mode will be automatically terminated after 4-5 minutes.

Be sure that the pump(s) have been primed by this time. Once the system has exited Priming Mode, the top-side panel will momentarily display the set temperature but the display will not show the temperature yet, as shown below. This is because the system requires approximately 1 minute of water flow.



OPERATION OF HYDREDDI SERIES

SPA BEHAVIOR

PUMPS

Press the “Jets” button



once to turn pump 1 on or off, and to shift between low- and high-speeds if equipped.

If left running, the pump will turn off after a time-out period. The pump 1 low-speed will time out after 30 minutes. The high-speed will time out after 15 minutes.

CIRCULATION PUMP MODES

If the system is equipped with a circulation pump, it will be configured to work in one of three different ways:

1. The circulation pump operates continuously (24 hours) with the exception of turning off for 30 minutes at a time when the water temperature reaches 3°F (1.5°C) above the set temperature (most likely to happen in very hot climates).
2. The circulation pump stays on continuously, regardless of water temperature.
3. A programmable circulation pump will come on when the system is checking temperature (polling), during filter cycles, during freeze conditions, or when another pump is on.

The specific Circulation Mode that is used has been determined by the Manufacturer and cannot be changed in the field.

FILTRATION AND OZONE

On circulation systems, the ozone will run with the circulation pump. The system is factory-programmed with one filter cycle that will run in the evening (assuming the time-of-day is properly set) when energy rates are often lower.

The filter time and duration are programmable. A second filter cycle can be enabled as needed. At the start of each filter cycle, Pump 2 will run briefly to purge its plumbing to maintain good water quality.

OPERATION OF HYDREDDI SERIES

FREEZE PROTECTION (ONLY IN SPA MODE)

In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch. See your dealer for details.

CLEAN-UP CYCLE (OPTIONAL)

When a pump is turned on by a button press, a clean-up cycle begins 30 minutes after the pump is turned off or times out. The pump and the ozone generator will run for 30 minutes or more, depending on the system. On some systems, you can change this setting.



TEMPERATURE AND TEMP RANGE

ADJUSTING THE SET TEMPERATURE

(6 Button Panel)

When using a panel without a Temperature button, pressing

Up (Warm)  or Down (Cool)  will cause the temperature to flash.

Pressing a Up (Warm)  or Down (Cool)  button again will adjust the set temperature in the direction indicated on the button. When the LCD stops flashing, the spa will heat to the new set temperature when required.

(4 Button Panel)

If the panel has a single temperature button, pressing the button will cause the temperature to flash. Pressing the button again will cause the temperature to change in one direction (e.g. UP). After allowing the display to stop flashing, pressing the Temperature Button will cause the temperature to flash and the next press will change the temperature in the opposite direction (e.g. DOWN).

Temp button till display is flashing



A) Press Temp button repeat till desired temp



B) Press Light Button to Set



OPERATION OF HYDREDDI SERIES

MODE-READY AND REST





READY Mode will circulate water every 1/2 hour, using Pump 1 Low, in order to maintain a constant water temperature, heat as needed, and refresh the temperature display. This is known as “polling.”

REST Mode will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the heater pump has been running for a minute or two.

CIRCULATION MODE

If the spa is configured for 24HR circulation, the heater pump generally runs continuously. Since the heater pump is always running, the spa will maintain set temperature and heat as needed in Ready Mode, without polling.

In Rest Mode, the spa will only heat to set temperature during programmed filter times, even though the water is being filtered constantly when in Circulation Mode.

- A) Temp button  till display is flashing.
- B) Press Light Button  until Mode appears.
- C) Press Temp Button  to toggle between Ready and Rest.
- D) Press Light Button to set. 


READY-IN-REST MODE

READY/REST appears in the display, if the spa is in Rest Mode and Jets button is pressed. It is assumed that the spa is being used and will heat to set temperature. While Pump 1 High can be turned on and off, Pump 1 Low will run until set temperature is reached, or 1 hour has passed. After 1 hour, the System will revert to Rest Mode. This mode can also be reset by entering the Mode Menu and changing the Mode.









OPERATION OF HYDREDDI SERIES

SHOW AND SET TIME OF DAY

Setting the time-of-day can be important for determining filtration times and other background features. When in the TIME menu, 

SET TIME will flash on the display if no time-of-day is set in the memory. 24-hour time display can be set under the PREF menu.

- A) Temp button till display is flashing 
- B) Press Light button until Time appears  
- C) Press Temp button to toggle time settings hours 
- D) Press Light button to set hours 
- E) Press Temp button to toggle time minutes 
- F) Press Light button to set minutes

NOTE: If power is interrupted to the system, Time-of-Day is not stored. The system will still operate and all other user settings will be stored. If filter cycles are required to run at a particular time of day, resetting the clock will return the filter times to the actual programmed periods.

When the system starts up, it defaults to 12:00 Noon, so another way to get filter times back to normal is to start up the spa at noon on any given day. SET TIME will still flash in the TIME Menu until the time is actually set, but since the spa started at noon, the filter cycles will run as programmed.

FLIP (INVERT DISPLAY)














- A) Press Temp button  till display is flashing
- B) Press Light Button till "FLIP" appears  
- C) Press Temp button 
- D) Press Light Button to set. 

OPERATION OF HYDREDDI SERIES

ADJUSTING FILTRATION (SPA MODE ONLY)

MAIN FILTRATION

Filter cycles are set using a start time and a duration. Start time is indicated by an “A” or “P” in the bottom right corner of the display. Duration has no “A” or “P” indication. Each setting can be adjusted in 15-minute increments. The panel calculates the end time and displays it automatically.

- A) Press Temp button till display is flashing 
- B) Press Light button till FLTR appears 
- C) Press Temp button BEGN appears 
- D) Press Temp button 8:00 appears 
- E) Use Temp button to toggle time HRS 
- F) Use Light button to switch to minutes 
- G) Use Temp button to toggle minutes in 15 min. increments. 
- H) Use Light to Set 
- I) Run Hrs appears on display 
- J) Use Temp button to adjust Hrs in 1 hour increments 
- K) Use Light button to set 
- L) Use Temp button to adjust minutes in 15 min. increments. 
- M) Use Temp button to set 

GENERAL MESSAGES

PRIMING MODE - M019



Each time the spa is powered up, it will enter Priming Mode. The purpose of Priming Mode is to allow the user to run each pump and manually verify that the pumps are primed (air is purged) and water is flowing. This typically requires observing the output of each pump separately, and is generally not possible in normal operation. Priming Mode lasts 4 minutes, but you can exit it earlier by pressing any Temp button. The heater is not allowed to run during Priming Mode.

NOTE: If your spa has a circulation pump, it will turn on with Jets in Priming Mode. The circulation pump will run by itself when Priming Mode is exited.

WATER TEMPERATURE IS UNKNOWN



After the pump has been running for 1 minute, the temperature will be displayed.

TOO COLD - FREEZE PROTECTION



A potential freeze condition has been detected, or the Aux Freeze Switch has closed, and all pumps are activated. All pumps are ON for at least 4 minutes after the potential freeze condition has ended, or when the aux freeze switch opens.

In some cases, pumps may turn on and off and the heater may operate during Freeze Protection. This is an operational message, not an error indication.

WATER IS TOO HOT (OHS) - M029



One of the water temp sensors has detected spa water temp 110°F (43.3°C) and spa functions are disabled. System will auto reset when the spa water temp is below 108°F (42.2°C). Check for extended pump operation or high ambient temp.

GENERAL MESSAGES

SAFETY TRIP - PUMP SUCTION BLOCKAGE - M033



The Safety Trip error message indicates that the vacuum switch has closed. This occurs when there has been a suction problem or a possible entrapment situation avoided. (NOTE: not all spas have this feature.)

HEATER RELATED MESSAGES

HEATER FLOW IS REDUCED (HFL) - M016



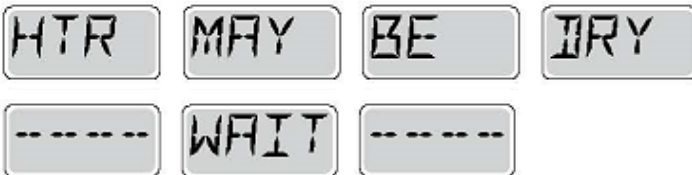
There may not be enough water flow through the heater to carry the heat away from the heating element. Heater start up will begin again after about 1 min. See “Flow Related Checks”.

HEATER FLOW IS REDUCED (LF) - M017



There is not enough water flow through the heater to carry the heat away from the heating element and the heater has been disabled. See “Flow Related Checks”. After the problem has been resolved, you must press any button to reset and begin heater start up.

HEATER MAY BE DRY (DR) - M028



Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 min. Press any button to reset the heater start-up. See “Flow Related Checks”.

HEATER RELATED MESSAGES

HEATER IS DRY - M027



There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, you must press any button to reset and restart heater start up. See "Flow Related Checks" below.

HEATER IS TOO HOT (OHH) - M030



One of the water temp sensors has detected 118°F (47.8°C) in the heater and the spa is shut down. You must press any button to reset when water is below 108°F (42.2°C). See "Flow Related Checks" below.

A RESET MESSAGE MAY APPEAR WITH OTHER MESSAGES



Some errors may require power to be removed and restored.

FLOW - RELATED CHECKS

Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets and pump prime.

On some systems even when spa is shut down, some equipment may occasionally turn on to continue monitoring temperature or if freeze protection is needed.

SENSOR RELATED MESSAGES

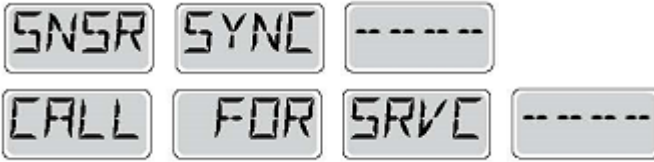
SENSOR BALANCE IS POOR - M015



The temperature sensors MAY be out of sync by 2°F or 3°F. Call for Service.

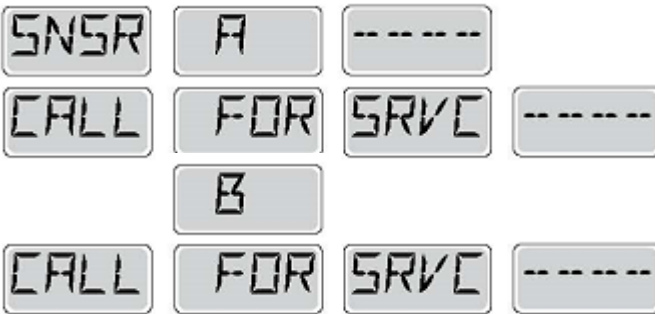
SENSOR RELATED MESSAGES

SENSOR BALANCE IS POOR - M026



The temperature sensors ARE out of sync. The Sensor Balance is Poor fault has been established for at least 1 hour. Call for Service.

SENSOR FAILURE- SENSOR A: M031, SENSOR B:M32



A temperature sensor or sensor circuit has failed. Call for Service

MISCELLANEOUS MESSAGES

NO COMMUNICATIONS



The control panel is not receiving communication from the System. Call for Service.

PRE-PRODUCTION SOFTWARE



The Control System is operating with test software. Call for Service.

°F OR °C IS REPLACED BY °T



SYSTEM RELATED MESSAGES

MEMORY FAILURE -CHECKSUM ERROR - M022



At Power-Up, the system has failed the Program Checksum Test. This indicates a problem with the firmware (operation program) and requires a service call.

MEMORY WARNING - PERSISTENT MEMORY RESET - M021



Appears after any system setup change. Contact your dealer or service organization if this message appears on more than one power-up, or if it appears after the system has been running normally for a period of time.

MEMORY FAILURE - CLOCK ERROR - M020 - NOT APPLICABLE ON THE BP1500



Contact your dealer or service organization.

CONFIGURATION ERROR - SPA WILL NOT START UP



Contact your dealer or service organization.

GFCI FAILURE SYSTEM COULD NOT TEST/TRIP THE GFCI - M036



NORTH AMERICA ONLY. May indicate an unsafe installation. Contact your dealer or service organization.

SYSTEM RELATED MESSAGES

A PUMP APPEARS TO BE STUCK ON - M034

STUK PUMP -----

Water may be overheated. POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

A PUMP APPEARS TO HAVE BEEN STUCK ON WHEN SPA WAS LAST POWERED- M035

HOT FALT -----

CALL FOR SRVC -----

POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

REMINDER MESSAGES

GENERAL MAINTENANCE HELPS

Reminder Messages can be suppressed by using the PREF Menu. Reminder Messages can be chosen individually by the Manufacturer. They may be disabled entirely, or there may be a limited number of reminders on a specific model.

The frequency of each reminder (i.e. 7 days) can be specified by the Manufacturer. Press a Temperature button to reset a displayed reminder message.

APPEARS ON A REGULAR SCHEDULE, E.G. EVERY 7 DAYS

CHEK PH

Alternates with temperature or normal display.

Check pH with a test kit and adjust pH with the appropriate chemicals

REMINDER MESSAGES

APPEARS ON A REGULAR SCHEDULE, E.G. EVERY 7 DAYS



Alternates with temperature or normal display.
Check sanitizer level and other water chemistry with a test kit and adjust with the appropriate chemicals.

APPEARS ON A REGULAR SCHEDULE, E.G. EVERY 30 DAYS



Alternates with temperature or normal display
Clean the filter media as instructed by the manufacturer.

APPEARS ON A REGULAR SCHEDULE, E.G. EVERY 30 DAYS



Alternates with temperature or normal display.
The Ground/Fault/Circuit/Interrupter (GFCI) or Residual Current Device (RCD) is an important safety device and must be tested on a regular basis to verify its reliability.
Every user should be trained to safely test the GFCI or RCD associated with the hot tub installation. A GFCI or RCD will have a TEST and RE-SET button on it that allows a user to verify proper function.

WARNING:

If freezing conditions exist, a GFCI or RCD should be reset immediately or spa damage could result. The end user should always be trained to test and reset the GFCI or RCD on a regular basis.

APPEARS ON A REGULAR SCHEDULE, E.G. EVERY 90 DAYS



Alternates with temperature or normal display.
Change the water in the spa on regular basis to maintain proper chemical balance and sanitary conditions.

REMINDER MESSAGES

APPEARS ON A REGULAR SCHEDULE, E.G. EVERY 180 DAYS

CLN COVR

Alternates with temperature or normal display.
Vinyl covers should be cleaned and conditioned for maximum life.

APPEARS ON A REGULAR SCHEDULE, E.G. EVERY 180 DAYS

TRT WOOD

Alternates with temperature or normal display
Wood skirting and furniture should be cleaned and conditioned per the manufacturers instructions for maximum life.

APPEARS ON A REGULAR SCHEDULE, E.G. EVERY 365 DAYS

CHNG FLTR

Alternates with temperature or normal display
Filters should be replaced occasionally to maintain proper spa function and sanitary conditions.

Alternates with temperature or normal display as needed.
Install new mineral cartridge

CHNG CART

JET OPERATIONS

To ensure the user gets the most therapeutic benefit from an Hydreddi Whirlpool, our engineers have designed jet placement that provides an invigorating, rejuvenating massage. Hydreddi prides itself on using the highest quality hydrotherapy jets available. Most Hydreddi Series jets are removable, and can be put into the dishwasher for easy cleaning. The Fan Jet can be cleaned by simply using a brush and warm, soapy water.

SHIATSU-PRO NECK AND BACK JETTING SYSTEM

Note: Rotary Massage Elite Jets and Pressure Plus Jets are located in the Shiatsu-Pro Neck and Back Jetting System.

See instructions below:

• **To Adjust Pressure (see Diagram 6B):**

1. Grasp the outer ring of the jet.
2. Turn the outer ring clockwise to increase flow, counter-clockwise to shut off.

• **To Adjust Circular Pattern (see Diagrams 6B and 6C):**

1. Using your fingertip, move jet eye to desired location.

• **To Remove Jet (see Diagram 6D):**

1. Grasp the outer ring of the jet.
2. Turn the jet counter-clockwise, until the jet clicks, then pull.

• **To Replace Jet or Change Jet (see Diagram 6D):**

1. Insert the jet into jet housing. **NOTE: DO NOT FORCE!**
2. Turn the jet clockwise, past point of resistance, until the jet click



6A



6B



6C



6D

JET OPERATIONS

PULSATING NECK JET PILLOWS

The Pulsating Neck Jet Pillows offer a comfortable place to rest your head while enjoying the luxury of a soothing neck massage. The Pulsating Neck Jet is pressure adjustable by simply turning the jet. The Neck Jet can be removed and placed in the dishwasher for easy cleaning. (See Maintenance and Care, page 33)

• **To Adjust Pressure (see Diagram 7B):**

1. Grasp the outer ring of the jet.
2. Turn the jet clockwise to increase flow, counter-clockwise to shut off.

• **To Remove Jet (see Diagram 7C):**

1. Grasp the outer ring of the jet.
2. Turn the jet counter-clockwise, until the jet clicks, then pull.

• **To Replace Jet or Change Jet (see Diagram 7C):**

1. Insert the jet into jet housing. **NOTE: DO NOT FORCE!**
2. Turn the jet clockwise, past point of resistance, until the jet clicks.



7B



7C

JET OPERATIONS

HYDREDDI ROTARY MASSAGE ELITE JET

The Rotary Massage Elite Jet generates a powerful rotating massage action that is directional and pressure adjustable for custom flexibility. The Rotary Massage Elite Jets massages the back in the Shiatsu-Pro Neck and Back Jetting System. It also focuses massage action on the foot and knee areas.

• **To adjust pressure (see Diagram 8A):**

1. Grasp the outer ring of the jet.
2. Turn the outer ring clockwise to increase flow, counter-clockwise to shut off.

• **To adjust circular pattern (see Diagrams 8A, 8B, and 8C):**

1. Small circular pattern: slide the nozzle until it is positioned in the center of the jet.
2. Medium circular pattern: slide the nozzle to the desired location for a medium pattern.
3. Large circular pattern: slide the nozzle to the desired location for a large pattern.

• **To remove jet (see Diagram 8D):**

1. Grasp the outer ring of the jet.
2. Turn the jet counter-clockwise, until the jet clicks, then pull.

• **To replace jet (see Diagram 8D):**

1. Insert the jet into jet housing. **NOTE: DO NOT FORCE!**
2. Turn the jet clockwise, past point of resistance, until the jet clicks.



8A



8B



8C



8D

JET OPERATIONS

PRESSURE PLUS JET

The Pressure Plus Jet massages the back in the Shiatsu-Pro Neck and Back Jetting System. It also provides an effective massage to the elbow and wrist areas.

• **To adjust pressure (see Diagram 10A):**

1. Grasp the outer ring of the jet.
2. Turn the jet clockwise to increase flow, counter-clockwise to shut off.

• **To remove jet (see Diagram 10B):**

1. Grasp the outer ring of the jet.
2. Turn the jet counter-clockwise, until the jet clicks, then pull.

• **To replace or change jet (see Diagram 10B):**

1. Insert the jet into jet housing. **NOTE: DO NOT FORCE!**
2. Turn the jet clockwise, past point of resistance, until the jet clicks.



10A



10B

USER INFORMATION

NOTE: The whirlpool action may cause even small amounts of bubble bath or shampoo to foam excessively. Exercise moderation in experimenting with different soap products.



No servicing of this product should be done by the user. There are no user serviceable parts. All controls are located in the control recesses on the lip of the tub. These are the only controls that should be used by the consumer. Do not change or alter any of these controls under any circumstances.

Motors are self-lubricating -- No lubrication required

MODEL NO. AND SERIAL NO. LOCATION



The tub model and serial numbers are located above the pump area on the backside of the bathtub. Your installer should have a service access panel in this location. Look for a label which resembles the one on the bottom.

(International)

BATH MODEL :
 SERIAL NO. :
 DATE :

230-240 V~ 50 Hz 1X18 A max







Las Vegas, NV 89115
USA

(Domestic)

MEETS ANSI Z124.1.2, ASME A112.19.7,
CSA B45.0, CSA B45.5 STANDARD

CONFORMS TO UL 1795 & CSA C22.2 No. 218.2

HYDROMASSAGE BATHTUB

Model # :
 Serial # :
 Mfg. Date :

120 VAC 60 Hz. 16 A max 240 VAC 60 Hz. 24 A max

DANGER: Risk of Electric Shock. Connect only to a GFCI Circuit

Caution: Risk of Electric Shock, Disconnect Electric Power Before Servicing
Attention: Risque De Choc Electronique Cou Per L'Alimentation Electrique Avant La Maintenance

HYDREDDI, LLC.
Las Vegas, Nevada, USA

R0414

MAINTENANCE AND CARE

To be removed for use by the occupant.

INITIAL CLEANING

Before tub is used, the whirlpool system should be cleaned and disinfected. Remove all debris and clean tub before putting whirlpool into service. **DO NOT USE ABRASIVE CLEANERS ON THE ACRYLIC FINISH.** Use a non-abrasive detergent and rinse well after cleaning.

- Fill the tub with HOT water to a level 2" above the highest jet.
- Add 2 teaspoons of low-sudsing automatic dishwashing detergent and no more than 4 ounces of household bleach to the water.
- Operate whirlpool for 10 minutes. Drain.

NOTE: To effectively clean both the whirlpool and air bath system, you must operate them both. (See sections entitled "Main Keypad" [Diagram 5A] and "Keypad #2" [Diagram 5C],

- Refill with cold water and operate whirlpool for 5 minutes. Drain.

WHIRLPOOL SYSTEM CLEANING

To remove accumulations of bath residue from the whirlpool system, we recommend that you purge it at least twice a month, or more depending on usage. To do this, follow this simple procedure. Fill the bath with hot water (not exceeding 140° F). Add to the hot water, 4 (6) tablespoons of low foaming detergent such as liquid Cascade or Calgonite and 24 (48) oz. of liquid household bleach, such as Clorox [use lesser amounts shown for 5-foot bathtubs, greater amounts in parentheses for larger bathtubs].

Run the bath for 5 to 10 minutes. Drain the bath completely and refill with cold water only. Run the whirlpool for 5 to 10 minutes, then drain the bath completely. Depending on the usage and/or the content of the local water supply, more frequent purging may be necessary.

NOTE: DO NOT USE OIL OR OIL BASED BATH ADDITIVES.

If you want to use any kind of bath additive, use only a small amount of low-foaming powder or crystal substance; the whirlpool action intensifies the foaming properties of soaps.

The use of certain bubble baths and bath additives may increase the level of accumulations of bath residue in the whirlpool system. If excess accumulations persist, you should discontinue use of these products.

MAINTENANCE AND CARE

If you have followed the monthly purging instructions and still have an excess accumulation of bath residue and desire an alternative cleaning mechanism, we recommend **SUPER SYSTEMS CLEAN PLUS** manufactured by Stearns Packaging Corporation to rectify this condition. This may be obtained by calling Hydreddi (800) 555-5324. It is recommended that you follow the instructions provided by the manufacturer with the product. Repeated use may be necessary. **SUPER SYSTEMS CLEAN PLUS** does not replace the necessity to purge your whirlpool system at least twice a month with a low foaming detergent and bleach.

SURFACE CLEANING

Use common household, non-abrasive cleaners for most cleaning jobs. Rinse well and dry with a clean cloth. Never use abrasive cleaners. Do not allow your Lucite® acrylic surface to come into contact with products such as acetone (nail polish remover), nail polish, dry cleaning solution, lacquer thinners, gasoline, pine oil, etc. Remove dust with a soft, dry cloth. Clean grease, oil, paint, and ink stains with isopropyl (rubbing) alcohol.

JET CLEANING

Most Hydreddi jets (excluding the 2 Fan Jets) are removable, and can simply be put into the dishwasher for easy cleaning. See Jet Operation Instructions for removal, pages 29-32.

(**NOTE:** Use top rack of dishwasher and remove before the drying cycle starts.) The Fan Jets can be cleaned with a bottle brush and warm, soapy water

SURFACE SCRATCH REMOVAL

Minor scratches may be removed by polishing your tub with a non-abrasive car polish, followed by buffing. Deeper scratches can be removed by:

- Sanding with wet 400 grit sandpaper.
- Sanding with wet 600 grit sandpaper.
- Sanding with wet micro-grit sandpaper.
- Buff out using non abrasive car polish.

REPAIR

The installation and service of your whirlpool bath should be performed only by a qualified plumber and electrician.

MAINTENANCE AND CARE

Remember when contacting your dealer always have your serial number, proof of purchase and model number available. This will ensure a quick response on warranty items. The model and serial numbers are located above the pump on the backside of the whirlpool.

NOTE: All warranty repairs must be authorized by Hydreddi LLC before work is started. Any work that is done not authorized by Hydreddi LLC will be denied.

CAUTION: Care should be taken to prevent inappropriate chemicals coming in contact with the Lucite® acrylic surface. Please read and observe all instructions and/or warnings on containers containing substances you contemplate applying to your whirlpool. Any failure to comply may void your warranty.

WATER QUALITY ISSUES

Owners of fill and drain whirlpool bathtubs need to know basic information concerning water quality: how it affects performance and enjoyment of the operation of their tubs, and steps that can be taken by the owner to correct related problems. Important issues are the microbiological and chemical quality of the water.

MICROBIOLOGICAL QUALITY

Microbes are present in water supplied by individual wells or water systems and even in the air around us. These microbes are usually in amounts below what is noticeable. Microbes from the water or air or from a bather's body may settle on wetted surfaces such as a whirlpool bathtub's surface or piping systems where they can grow in numbers where we can notice them. With regards to whirlpool bathtubs, brown/black fungi/mold or pigmented (colored) bacteria can be noted.

Fungi/Mold- Fungi and mold are always present. The levels are usually such that we do not notice them. When moisture and temperature are sufficient, the organisms will grow to levels that we may smell and/or see. The best example of such growth is the very common black growth on the bottom of shower curtains. The best solution to keep these surfaces free from growth is frequent cleaning.

Pigmented Bacteria- Water utilities from all over the United States have experienced calls from consumers inquiring and complaining about pinkish substance on bathroom fixtures that is very persistent, appearing in the shower, sink and along the water line of toilet bowls. With whirlpool bathtubs, the formation of this colored substance may be particularly pronounced in white tubs. The residue is less likely a problem associated

MAINTENANCE AND CARE

with water quality than with naturally occurring airborne bacteria. The bacteria may produce a pinkish film, and sometimes a dark gray film, on surfaces that are regularly moist, including toilet bowls, shower heads, sink drains, and tiles. The problem is more common in humid areas of the country. In any particular case, the determination of the exact species of bacteria causing the problem would require lengthy and costly laboratory testing; however, most experts believe the bacteria responsible is *Serratia marcescens*. These bacteria thrive on moisture, dust and phosphates, and are widely distributed in soil, food and also in animals. The American Water Works Association suggests that short of buying pink fixtures, the best solution to keep these surfaces free from the bacterial film is continual cleaning. The AWWA recommends a chlorine containing the compound as the best cleaner and avoiding abrasives to avoid scratching fixtures, which will make them more susceptible to bacteria.

CHEMICAL QUALITY

The water supplied by individual wells or water systems always contains chemicals, usually in amounts below those which the consumer would notice. Examples of such chemicals, which are of potential concern for the owners of fill and drain whirlpool bathtubs, are calcium and magnesium salts, copper, iron, manganese and sulfates. When these chemicals are present in sufficient amounts, they may cause problems in whirlpool bathtubs. You should contact your water supply or treatment company and follow their suggestions for treatment.

Calcium and Magnesium Salts- Collectively, the various compounds of calcium and/or magnesium are referred to as salts. Calcium and magnesium salts are often found in ground water supplies and cause “hardness” in water. Hard and soft water are relative terms. Hard water retards the cleaning action of soaps and detergents, causing expense in the form of extra work and cleaning agents. When hard water is heated, it will deposit a hard scale. With regard to whirlpool bathtubs, high calcium and/or magnesium levels may result in the formation of white stains and scale formation on the inside of the tubs, especially noticeable with colored tubs. If this occurs, you need to contact the water supplier to determine the calcium and/or magnesium content and/or corrosion potential of the water and follow their suggestions for treatment. If you are on an individual well, you need to contact a water treatment company to test your water and suggest solutions if a problem is present.

Iron-Iron is found in many natural waters especially from wells. Iron in water can also result from the corrosion of piping in the water supply system, such as cast iron mains or galvanized steel service lines, or galvanized piping in the home water system. High iron levels may result in the formation of brown stains in the vicinity of the faucet outlets of various fixtures in the home.

MAINTENANCE AND CARE

With whirlpool bathtubs, the staining may be particularly pronounced because the aeration action can oxidize iron to a form that settles out on the inside of the tubs, especially noticeable in white tubs. If high iron in the water is present, you can also notice rust colored deposits in your toilet tank or dishwasher. If this occurs, you need to contact the water supplier to determine the iron content and/or corrosion potential of the water and follow their suggestions for treatment. If you are on an individual well, you need to contact a water treatment company to test your water and suggest solutions if a problem is present.

Manganese- Manganese is found in many natural waters, especially from wells. High manganese levels may result in the formation of small black particles that can stain laundry, especially noticeable with whites such as sheets or towels. With whirlpool bathtubs, the formation of small black particles may be particularly pronounced because the aeration action in the tub can oxidize manganese to an insoluble form that is especially noticeable with white tubs. If high manganese in the water is present, you may also notice black stains on white laundry. If this occurs, you need to contact the water supplier to determine the manganese content of the water and follow their suggestions for treatment. If you are on an individual well, you need to contact a water treatment company to test your water and suggest solutions if a problem is present.

TREATMENT

If you have contacted your water supplier and followed its instructions and you are still having problems, you need to increase the frequency of applications of low-foaming detergent/bleach starting from bi-monthly purging down to using it every other day as required to eliminate your particular problem.

The use of certain bath oils, bubble baths and bath additives may increase the level of accumulations of bath residue in the whirlpool system. More frequent cleaning may be necessary if these products are used in the whirlpool tub. If excess accumulations persist, you should discontinue use of these products.

If you have followed the monthly purging instructions and still have an excess accumulation of bath residue and desire an alternative cleaning mechanism, we recommend **SUPER SYSTEMS CLEAN PLUS** manufactured by Stearns Packaging Corporation to rectify this condition. This may be obtained by contacting Aquatic Industries at (800) 555-5324. It is recommended that you follow the instructions provided by the manufacturer with the product. Repeated use may be necessary. **SUPER SYSTEMS CLEAN PLUS** does not replace the necessity to purge your whirlpool system at least once a month with a low foaming detergent and bleach.

TROUBLESHOOTING GUIDE

WARNING: Always turn off power at the main electrical service panel when servicing your whirlpool.

SYMPTOMS	POSSIBLE PROBLEMS	SUGGESTED SOLUTIONS
Motor does not start	<ol style="list-style-type: none"> 1) GFCI or circuit breaker in OFF position. 2) Fuses blown or thermal overload open. 3) Locked motor shaft. 4) Motor windings burned out. 5) Defective starting switch inside single-phase motor. 6) Disconnected or defective wiring. 7) Low voltage. 	<ol style="list-style-type: none"> 1) Reset GFCI. 2) Contact your electrician. 3) Contact Hydreddi 4) Contact Hydreddi 5) Contact Hydreddi 6) Check and reconnect if needed. 7) Contact your electrician.
Motor does not reach full speed	<ol style="list-style-type: none"> 1) Low voltage. 2) Motor windings connected for wrong voltage 3) Wiring too small. 	<ol style="list-style-type: none"> 1) Contact your electrician. 2) Contact Hydreddi 3) Contact your electrician.
Low pump pressure	<ol style="list-style-type: none"> 1) Pump running at reduced speed. 	<ol style="list-style-type: none"> 1) See above.
Motor overheats (protector trips)	<ol style="list-style-type: none"> 1) Low voltage. 2) Motor windings connected for wrong voltage 3) Inadequate ventilation. 4) Wiring too small. 	<ol style="list-style-type: none"> 1) Contact your electrician. 2) Contact Hydreddi 3) Refer to installer/dealer. 4) Contact your electrician.
Fiber Optic lighting system doesn't function	<ol style="list-style-type: none"> 1) Check fuse on Light Control Box. 	<ol style="list-style-type: none"> 1) Contact Hydreddi
Pump delivers no water	<ol style="list-style-type: none"> 1) Jets are closed. 2) Leakage of air into suction system. 3) Impeller clogged. 	<ol style="list-style-type: none"> 1) Open jets. 2) Check suction screen for clogs. 3) Clean and unplug.
Low pump capacity	<ol style="list-style-type: none"> 1) Suction or discharge line partly plugged. 2) Pump running at reduced speed. 3) Impeller clogged. 	<ol style="list-style-type: none"> 1) Clean and unplug. 2) See "Motor does not reach full speed." 3) Clean and unplug.
Noisy pump and motor	<ol style="list-style-type: none"> 1) Worn motor bearings. 2) Pumps touching a stationary object. 3) Suction line partly plugged. 4) Pump not supported properly. 	<ol style="list-style-type: none"> 1) Contact Hydreddi 2) Refer to installer/dealer. 3) Clean and unplug. 4) Contact Hydreddi (If you have a remote pump, refer to installer/dealer.)
Leakage of water at shaft	<ol style="list-style-type: none"> 1) Shaft seal requires replacement. 	<ol style="list-style-type: none"> 1) Contact Hydreddi

TROUBLESHOOTING GUIDE

SYMPTOMS	POSSIBLE PROBLEMS	SUGGESTED SOLUTIONS
Leaking unions	<ol style="list-style-type: none"> 1) O-ring missing or damaged. 2) Plumbing in a bind. 3) Loose unions. 	<ol style="list-style-type: none"> 1) Contact Hydreddi 2) Contact Hydreddi 3) Tighten unions.
Vibration noise	<ol style="list-style-type: none"> 1) Tub or tub plumbing is touching tile/wall 2) Pump is touching framing. 	<ol style="list-style-type: none"> 1) Refer to installer/dealer. 2) Refer to installer/dealer.
Air Bath system does operate	<ol style="list-style-type: none"> 1) No power to air blower. 2) Blower Control Box is not plugged in. 3) Control Panel connector to controller box is disconnected. 4) Plug Blower into control box. 	<ol style="list-style-type: none"> 1) Reset circuit breakers and GFCI if tripped. Check fuses and replace if bad. 2) Make sure plug is fully inserted into the outlet. 3) Check and reconnect if needed. 4) Blower Motor is disconnected from control box.
Blower turns off by itself or before time elapses	<ol style="list-style-type: none"> 1) Blower motor overheated and thermal protection device deactivated motor (possibly low voltage). 2) GFCI tripped. 	<ol style="list-style-type: none"> 1) Check that blower has sufficient ventilation, and that the intake to the blower is not blocked, clear and allow motor to cool down. (Check service & wire size.) 2) Refer to installer/dealer.
Circuit breaker trips repeatedly	<ol style="list-style-type: none"> 1) Defective breaker. 2) Sort circuit between bath and breaker box. 3) Other items or devices are connected to the same circuit. 	<ol style="list-style-type: none"> 1) Change out breaker. 2) Refer to installer/dealer. 3) Refer to installer/dealer.
Blower does not manually shut off	<ol style="list-style-type: none"> 1) Defective control panel. 2) Defective control box. 	<ol style="list-style-type: none"> 1) Contact Hydreddi 2) Contact Hydreddi
Air blower does not function properly while in the pulse or wave modes	<ol style="list-style-type: none"> 1) Speed of air setting is set too low. 	<ol style="list-style-type: none"> 1) Change the air speed setting to a mid-range setting before switching to wave or pulse modes.

WARRANTY COVERAGE AND OUTLINE

WARRANTY COVERAGE AND OUTLINE

Hydreddi, LLC offers the following warranty on the Hydreddi Spa/Bath. This warranty is applicable to the Original purchaser of the Hydreddi Spa/Bath from the date of purchase. Hydreddi, LLC will replace or repair at its sole discretion, the Hydreddi Spa/Bath or equipment as outlined in following terms and conditions.

LIFETIME SHELL WARRANTY

A Hydreddi Spa/Bath shell is defined as the shell below the surface finish. The Hydreddi Spa/Bath shell is warranted to be free from defects in material and workmanship under normal use and maintenance for Life of the Hydreddi Spa/Bath. Warranty coverage begins on the original date of the purchase. This warranty applies to the original purchaser only and is non-transferable. The spa shell is warranted to be structurally sound and water tight throughout the warranty period. Under the terms of this warranty, Hydreddi, LLC has the option to repair or replace the shell at its sole discretion. This Lifetime warranty covers only the Hydreddi Spa/Bath shell and does not cover other components (pump, lights, cover equipment, etc.)

ONE YEAR SURFACE WARRANTY

The spa surface is described as the exposed acrylic material finish. The manufacturer warrants the spa surface to be free from defects in the material and workmanship, such as blistering, cracking, or de-laminating, this does not cover micro-crazing, under normal use and maintenance for a period of one year from the original start date of the warranty.

The warranty period starts either the day of delivery to the customer or eighteen (18) month from the date of manufacturing, whichever date comes first. **THIS WARRANTY IS GIVEN ONLY TO THE ORIGINAL OWNER, AND TERMINATES UPON TRANSFER OF OWNERSHIP. COMMERCIAL APPLICATIONS ARE EXCLUDED FROM THIS AND ALL WARRANTIES.**

1 YEAR PARTS AND LABOR

Hydreddi Spa/Bath warrants all factory installed components for a period of one year from original purchase date, this warranty is non transferable. The warranty covers parts (including plumbing pumps, lights, control system, and failures due to manufacturer defects and/or workmanship. This warranty does not cover issues with improper use or "Acts of Nature".

WARRANTY LIMITATIONS

Our limited warranty does not cover damage or failures caused by carrier, installation, mishandling of the unit during shipping or installation, misuse by user or other persons, improper connection, (including operation of the unit with improper water levels inappropriate water temperature, use of

WARRANTY COVERAGE AND OUTLINE

abrasive or improper cleaners, Acts of Nature including but not limited to earthquakes, flooding fires, or lightning strikes.

Hydreddi, LLC will not be responsible for incidental or consequential damages or losses arising from any cause (loss of use, carpet damage, tile damage, ceiling damage, etc.) Including damages caused by any after-market item installed on the unit, incorrect chemicals, hard water, improper maintenance unit prior usage as a display model and any defect not discovered before installation of the unit.

The Hydreddi Spa/Bath warranty is provided for consumer in home service. If the unit cannot be repaired in home, arrangements will be made for a pickup and return at the consumer's home. Hydreddi, LLC will not be responsible for costs pertaining to removing or reinstallation of unit, but will furnish freight back to the plant on a defective unit and freight back to consumer with replacement unit.

WARRANTY REGISTRATION

The warranty card that is included in your owner's manual must be filled out and returned to Hydreddi, LLC within 30 days of purchase for the warranty to become effective.

RESPONSIBILITY OF OTHERS

Inspection of the Hydreddi Spa/Bath is the responsibility of the installer building contractor who acts on the behalf of the user. They are responsible for ensuring the Hydreddi Spa/Bath is free from defects or damage. If during the inspection the installer/building contractor detects defects or damage do not install the Hydreddi Spa/Bath.

Damage that occurs during transportation of the Hydreddi Spa/Bath is the responsibility of the carrier. The user or the installer must open the crate and inspect the unit upon delivery. If damage is observed the user shall report the damage immediately to the seller and the carrier. You should file your freight claim.

The Installer/Building Contractor or user is responsible for providing access to the unit. If extra charges are incurred relative to problems associated with accessing the unit for repair, the user will be responsible for these charges.

Damages occurring during installation of the unit are solely the responsibility of the Installer/Building Contractor. Any damage after the unit is installed is solely the responsibility of the user.

WARRANTY COVERAGE AND OUTLINE

The distributor or Dealer is responsible for knowing local code requirements for city, county and state and they are responsible for notifying the installer/building contractor or user of such requirements at time of purchase. Hydreddi, LLC is not responsible for any cost or modifications of such requirements. If modifications are necessary to meet local requirements such modifications will not be covered by this warranty.

Hydreddi, LLC will provide the warranty as stated above. No other warranties are implied. Warranties offered by Dealer, installer or other any other parties are not covered under this warranty or by Hydreddi, LLC.

WARRANTY SERVICE

Hydreddi, LLC has a list of independent service providers, for customer's convenience only. The independent service providers are not agents or representatives of Hydreddi, LLC, therefore Hydreddi, LLC cannot be bound by words or conduct of said service providers.

If the user needs service work please contact Hydreddi, LLC in writing or by calling at the following location.

HYDREDDI, LLC
4720 Lamb Blvd
Las Vegas, NV 89115
1-877-400-4655

Hydreddi, LLC will provide the warranty service as described above when the following conditions have been met. Hydreddi, LLC was contacted within the warranty period of said issue. The failure was of the type outlined above.

When contacting Hydreddi, LLC for service work, the Hydreddi Spa/Bath serial number must be provided, a description of the problem and proof of sale. Hydreddi, LLC will contact an Authorized service provider, and must be able to have access to the Hydreddi Spa/Bath during normal business hours.

Any item replaced under this warranty will be covered under the remaining warranty period of the unit.

HYDREDDI PARTS SHEET

Artesian Part Number	Description	Picture
EQUIPMENT		
33-1320-08	BP2100	
33-1321-40	TP400	
33-1322-40	TP600	
21-0408-81	PUMP, 1.5HP 230V 50HZ, 1.5"UN	
21-0409-81	CIRCULATION PUMP E10 W/ FLOW SWITCH AMP	
24-0032-42	HEATER ASSY 1.5KW 120V X 7" W/ TC) 26" CORD AMP	







HYDREDDI PARTS SHEET

Artesian Part Number	Description	Picture
JETS		
03-2023-03	HYD 5" TWIN SPIN WHITE	
03-2020-03	HYD 3" ROTO WHITE	
03-2019-03	HYD 3" DIRECT WHITE	
03-2116-03	HYD 2" DIRECT WHITE	
03-2013-03	HYD 1 1/2" CLUSTER DIRECT WHITE	
03-2011-03	HYD OZONE JET WHITE	
25-0008-08	OZONE 110/220V AMP	

HYDREDDI PARTS SHEET

Artesian Part Number	Description	Picture
FILTER		
06-1000-04	FILTER CARTRIDGE 2 3/4 OD X 14 3/4 H	
06-1001-04	CONWAY CAP	
06-1002-04	O-RING	
06-1008-04	CAP WRENCH	
PLUMBING PARTS		
05-2005-03	HYD SUCT 67 GPM LO PRO COVER	
05-2050-55 05-2051-55	HYD, SCH 40 PVC 45" BATH WASTE & OVERFLOW, LESS TRIM / HYD, WHT. STANDARD TRIM FOR CABLE DRIVE W&O	
35-0020-30	2" LIGHT WITH FRONT ACCESS	

HYDREDDI PARTS SHEET

Artesian Part Number	Description	Picture
COVERS		
45-9020-01	COVER 72X54 WHITE	
45-9021-01	COVER 72X42 WHITE	
45-9022-01	COVER 72X36 WHITE	
45-9023-01	COVER 60X32 WHITE	
45-9024-01	COVER 66X66 WHITE	
45-9024-01W	COVER 66X66 WHITE/WATERFALL	

Place
Stamp
Here

Please do not send products or
other correspondence to the
address below.

MAY MANUFACTURING,LLC
Attn: Customer Care Department
4720 N. Lamb Blvd.
Las Vegas, NV 89115

HYDREDDI

Product Registration Card

To ensure that your warranty is registered with Artesian Spas complete, sign and return this registration card within 30 days of date of purchase or installation.

NOTE: Your warranty will not be recognized by Artesian Spas unless this card is fully completed and returned to:

Artesian Spas 4720 N Lamb Blvd, Las Vegas, NV 89115.

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____

DATE PURCHASED _____ SPA SERIAL NUMBER _____

TUB MODEL _____

COLOR _____

DISTRIBUTOR _____

CITY _____

I have read the Hydreddi Owners Manual carefully and understand and agree that any installation, operation or maintenance of the whirlpool must be done strictly in accordance with instructions and guidelines contained in the Hydreddi Owners Manual and Installation Guide provided by Artesian Spas to my Artesian Spas Distributor.

SIGNATURE: _____ 6/2015

