

WATER BATHS

MODELS: SWB2 / SWB2-2 SWB7 / SWB7-2 SWB15 / SWB15-2 SWB23 / SWB23-2 SWB715 / SWB 715-2

Previously known as W2M / W2M-2, W6M / W6M-2, W14M / W14M-2, W20M / W20M-2, W614M / W614M-2 **115v/220v and PC Models**

MICROPROCESSOR CONTROLLED

INSTALLATION AND OPERATION MANUAL

Revised: December 3, 2015 4861626 These units are TUV CUE listed as water baths for professional, industrial or educational use where the preparation or testing of materials is done at approximately atmospheric pressure and no flammable, volatile or combustible materials are being heated. These units have been tested to the following requirements:

CAN/CSA C22.2 No. 61010-1:2012 CAN/CSA C22.2 No. 61010-2-010 + R:2009 UL 61010-1:2004 + R:2005-07 + R:2008-10 UL 61010A-2-010:2002 UL 61010-1:2012 EN 61010-1:2010 EN 61010-2-010:2003

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INTRODUCTION

Thank you for choosing a general purpose water bath. These units are not intended for use at hazardous or household locations.

Before you use the unit, read this entire manual carefully to understand how to install, operate, and maintain the unit in a safe manner. Your satisfaction with the unit will be maximized as you read about its safety and operational features.

Keep this manual on-hand so it can be used by all operators of the unit. Be sure all operators of the unit are given appropriate training before you put the unit in service.

Note: Use the unit only in the way described in this manual. Failure to follow the guidelines and instructions in this manual may be dangerous and illegal.

General Safety Considerations

Your water bath and its recommended accessories have been designed and tested to meet strict safety requirements.

For continued safe operation of your water bath, always follow basic safety precautions including:

- Read this entire manual before using the water bath.
- Be sure you follow any city, county, or other ordinances in your area regarding the use of this unit.
- Use only approved accessories. Do not modify system components. Any alterations or modifications to your water bath may be dangerous and will void your warranty.
- Always plug the unit's power cord into a grounded electrical outlet that conforms to national and local electrical codes. If the unit is not grounded, parts such as knobs and controls may conduct electricity and cause serious injury.
- Do not connect the unit to a power source of any other voltage or frequency beyond the range stated on the power rating overlay at the rear of the unit.
- Do not modify the power cord provided with the unit. If the plug does not fit an outlet, have a proper outlet installed by a qualified electrician.
- Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it. A
 damaged cord can easily become a shock or fire hazard. Never use a power cord after it has become
 damaged.
- Do not position equipment in a manner that prohibits access to power cord.
- Do not attempt to move the unit during operation or before the unit has been allowed to cool.



RECEIVING YOUR UNIT

Before leaving our factory, all units are packaged in high quality shipping materials designed to provide protection from transportation related damage.

Once a unit leaves our factory, safe delivery becomes the responsibility of the carrier who is liable for loss or damage to your unit. Damage sustained during transit is not covered under your unit warranty.

When you receive your unit, inspect it for concealed loss or damage to its interior and exterior. Should you find any damage to the unit, follow the carrier's procedure for claiming damage or loss.

Inspection Guidelines

Carefully inspect the shipping carton for damage. If the carton is damaged, report the damage to the carrier service that delivered the unit.

If the carton is not damaged, open the carton and remove its contents. Verify that all of the following equipment is included in the crate:

- One (1) water bath
- One (1) bath cover, two (2) for SWB715 & SWB715-2 (W614M W614M-2)
- One (1) magnetic thermometer clip
- One (1) power cord

Carefully check all packaging before discarding. Save the shipping carton until you are sure everything is in order.

Returning Shipment

If you must return the unit for any reason, first contact your service representative for authorization. You will be asked to provide the data plate information. See Recording Data Plate Information.

Recording Data Plate Information

Once you have determined the unit is free from damage, locate the data plate at the back of the unit. The data plate indicates your unit's model number and serial number. Record this information below for future reference.

Table 1. Data Plate Information

Model Number	
Serial Number	
Part Number	
Voltage	

Section

GRAPHIC SYMBOLS

Your unit is provided with a display of graphic symbols that should help in identifying user adjustable components.

Table 2. Symbols

Symbol

Identification



Indicates that you should consult your operator's manual for further instructions. Indique que l'opérateur doit consulter le manuel d'utilisation pour y trouver les instructions complémentaires.

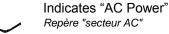
Indicates "Temperature" Repère "température"



I

Ο

Indicates "Over Temperature Protection" Signale un "dépassement de température"



Repère "secteur AC"

Indicates the power is "ON" Repère de la position "MARCHE" de l'interrupteur d'alimentation

Indicates the power is "OFF" Repère de la position "ARRÊT" de l'interrupteur d'alimentation

$$\begin{pmatrix} \bot \\ \hline - \end{pmatrix}$$

Indicates "Protective Earthground" Repère de la "terre de protection"



Indicates "Up" and "Down" respectively Touches de déplacements respectifs vers le "HAUT" et le "BAS"

Indicates "Manually Adjustable" Signale un élément "réglable manuellement"

Indicates "Potential Shock Hazard" behind partition Signale un "risque potentiel d'électrocution" au-delà de la cloison.

Indicates "Hot Surface" Signale une "surface à haute température"



Indicates "**Unit should be recycled**" (Not disposed of in land-fill). Indique "**l'appareil doit être recyclé**" (Ne pas jeter dans une décharge)



INSTALLATION

Your satisfaction and safety require a complete understanding of this unit. Read the instructions thoroughly and be sure all operators are given adequate training before attempting to put the unit in service.

This equipment must be used only for its intended application; any alterations or modifications will void your warranty. Local city, county, or other ordinances may govern the use of this equipment. If you have any questions about local requirements, please contact the appropriate local agency. The end user may perform installation.

Environmental Conditions

Under normal circumstances these units are intended for use indoors, at room temperatures between 18° and 40° C, at no greater than 80% relative Humidity (at 25° C) and with a supply voltage that does not vary by more than 10% from the data plate rating. This equipment should not be operated at an altitude exceeding 2000 meters. Installation category is **II**, pollution degree 2. Customer service should be contacted for operating conditions outside of these limits.

Power Source

Check the data plate for voltage, cycle, and ampere requirements. If matched to your power source, plug the power cord into a grounded outlet.

Voltage should not vary more than \pm 10% from the data plate rating.

These units are intended for 50/60-HZ application. A separate circuit is recommended to prevent damage to the unit due to overloading or circuit failure.

Location

In selecting a location, consider all conditions that might affect performance, such as heat from radiators, ovens, autoclaves, etc. Avoid direct sun, fast-moving air currents, heating and cooling ducts, and high traffic areas. Allow a minimum of 10 cm between the unit and any walls or partitions that might obstruct free airflow.

Lifting and Handling

These units are heavy and care should be taken to use appropriate lifting devices that are sufficiently rated for these loads. The unit should be completely restrained from tipping during lifting or transport. All moving parts such as trays or covers should be removed during transfer to prevent shifting and damage. The bottom of the unit is hot during operation as is the water in the tank. Always allow the unit to cool before attempting to move it.

Cleaning and Decontamination

In the event hazardous material is spilled onto or into the equipment appropriate decontamination must be carried out. If there is any doubt about the compatibility of decontamination or cleaning agents with parts of the equipment or with material contained, please contact the manufacturer.

Units are cleaned at the factory, but not sterilized. Remove any racks if assembled and clean the bath with a disinfectant that is suitable for your application. See MAINTENANCE for cleaning instructions and precautions.

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CONTROLS OVERVIEW

This section provides an overview of the panel controls. See Figure 1 for an illustration of the panel controls.



Power Switch

The Green I/O (On/Off) power switch controls all power to the unit. It must be in the I position to be ON and the green power on light illuminated before any systems are operational. The on/off switch must remain easily accessible at all times. The W614M is equipped with separate switches for each tank.

Main Temperature Controller

This control is marked SET TEMPERATURE and consists of the digital display and UP and DOWN arrow pads for inputting set point temperatures and calibration. Separate controls are used on the W614M to control temperature in the respective tanks.

Fuses

The fuses are located at the back of the unit within the power inlet plug and 220v units also have a fuse holder located next to the inlet. The fuses act as a circuit breaker and will cut off power to the unit if there is an electrical surge or malfunction. The cause should be determined and corrected before placing the fuse. Fuses must be in place for the unit to operate.

Over Temperature Limit Thermostat (OTL)

This controller is marked "Set Over Temp Control" and is completely independent of the Temperature Controller. The OTL guards against any failure of the Temperature Controller that would allow the temperature to rise past set point. If the temperature rises to the OTL set point, the OTL takes control of the heating element and allows continued use of the water bath until the problem can be resolved or service can be arranged. The OTL is manually adjusted with a screwdriver or coin so accidental adjustment cannot occur. The W614M has separate controls for each of the tanks.

Heating Activated

This light is ON when the Temperature Controller has activated the heating element to reach and maintain set point.

Over Temperature Activated Light

This light is ON when the Over Temperature Limit Thermostat has been activated. Under normal operating conditions this light should never be on.



OPERATION

Warning:



These baths are not intended for use as acid baths. Use as an acid bath will cause severe damage to bath components and void your warranty. Do not use deionized water, tap water, or chemicals. USE DISTILLED WATER ONLY.

Attention: Ces bains d'eau ne sont pas conçus pour les acides. Utiliser un tel bain comme bain d'acide l'endommagera gravement et annulera la garantie. Ne pas utiliser d'eau désionisée, d'eau du robinet ni de produits chimiques. UTILISER EXCLUSIVEMENT DE L'EAU DISTILLÉE.

Turning On the Unit

To turn on the unit, perform the following steps:

- 1. Check power supply against unit serial plate; they must match.
- 2. Plug service cord into the electrical outlet. If supplied with a detachable cordset, plug the female end into the unit inlet and the male plug into the power supply. Verify that units requiring a fuse have the fuse installed in the power inlet.
- Fill bath to your required depth with DISTILLED WATER. DO NOT USE TAP WATER, DEIONIZED WATER, OR CHEMICALS. For singer or larger tank, normal depth is 5 ½ inches (14 cm), but depth must be at least 2 inches (5 cm) over the bottom of the rack. For shallow tank, normal depth is 2/3 full, but depth must beat least 2 inches (5 cm). Check water level frequently, add water to appropriate levels if needed. At higher operating temperatures, or under circumstances where a cover cannot be used, it will be necessary to check the water level more frequently.
- 4. Push the Main power switch to the ON position and turn the Over Temperature Limit Thermostat to its maximum position, clockwise.

Setting Main Temperature Control

To enter set point mode on the control, push and release either the Up or Down arrow pad one time and the digital display will start to blink from bright to dim. While blinking, the digital display shows the set point that can be changed using the UP or DOWN arrow pads. If the arrow pads are not pressed for five (5) seconds, the display will stop blinking and will revert to reading the actual temperature in the bath. Allow at least two (2) hours for the temperature to stabilize.

Warning: If the tank boils dry while containing plastic ware, the plastic can melt. If you intend to use test tube racks, remember that plastic coated wire racks may wear and expose metal that can cause damage. Preferably, use all plastic racks.

Attention :



Si la cuve vient à s'assécher tandis qu' elle contient des ustensiles en plastique, le plastique risque de fondre. Si des râteliers à tubes à essais constitués d'une ossature métallique gainée de plastique sont utilisés, prendre garde que le plastique peut fondre ou s'user et découvrir des parties métalliques risquant d'endommager différentes pièces. ll est préférable d'utiliser des râteliers à tubes entièrement en plastique.

Calibrating the Main Temperature Control

We recommend that you calibrate your unit once it has been installed in its working environment and the chamber temperature has been stable at the set point for several hours.

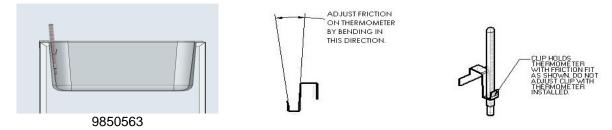
- 1. Place a calibrated reference thermometer in the bath (a thermometer clip is provided with the accessories package). (See Figure 2 for placement.) Allow the thermometer to reach temperature and remain stable for one (1) hour.
- 2. Compare the reading on the reference thermometer with the temperature control display. If there is a difference, put the display into calibrate mode by pressing both the Up and Down arrow pads at the same time until the two (2) outside decimal points begin to blink.
- 3. When the decimal points are blinking, press the Up or Down arrow pad to adjust the display to match the reference thermometer. If the arrow pads are not pressed within five (5) seconds the display will revert to showing the temperature within the bath.
- 4. Allow the unit to stabilize again, and repeat calibration if necessary.
- 5. On the W614M, both tanks will need to be calibrated individually.

Setting the Overtemperature Limit Thermostat

To set the Over Temperature Limit Thermostat, perform the following steps:

- 1. Verify that the Limit Thermostat was set to its maximum position to allow the water bath to stabilize.
- 2. Turn the Limit Thermostat counterclockwise until the Safety indicator light turns on.
- 3. Turn the Limit Thermostat clockwise until the OTL indicator light turns off.
- 4. Turn the thermostat clockwise again, two (2) of the smallest divisions on its scale past the point where the indicator light went out. This will set the Safety Thermostat at approximately 1°C above the Main Temperature set point.

Figure 2. Thermometer Placement



Note: Water bath thermometer must be placed so that the bulb is always fully immersed. The thermometer must not touch the sides or the bottom of the bath tank.

Bath Cover Assembly

To assemble the bath cover, perform the following steps:

1. Insert two (2) self-tapping screws through the respective cover holes and into the holes in the handle, leaving the first self-tapping screw loose to assure proper alignment. See Figure 3. Firmly fasten both screws into place. Do not over-tighten.

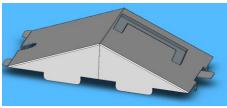


Figure 3. Bath Cover Assembly

Handle Part #3800609



MAINTENANCE

Warning:

Prior to any maintenance or service on this unit, disconnect the power cord from the power supply and the drain water from the tank. Before reattaching the unit to its power supply, be sure all volatile and flammable cleaners are evaporated and dry.

Avertissement: Avant d'effectuer toute maintenance ou entretien de cet appareil, débrancher le cordon



secteur de la source d'alimentation. Avant de reconnecter l'appareil sur le secteur, s'assurer que tous les produits de nettoyage volatiles et inflammables sont complètement évaporés.

Cleaning

The unit chamber should be cleaned and disinfected prior to use.

To clean the water bath, perform the following steps:

- Clean the water bath with mild soap and water solution. DO NOT USE chlorine-based bleaches, as they will damage the tank interior. DO NOT USE spray cleaners that may contain solvents, which could leak through openings and cracks and harm electrical part coatings. Failure to do this may permanently damage the unit.
- 2. Clean water bath with a damp cloth with cleaning solution. Wipe the water bath clean.

Disinfecting

Disinfect the bath on a regular basis. To disinfect the incubator, perform the following steps.

- 1. Disinfect the bath, including all corners, using a suitable disinfectant. DO NOT USE spray disinfectants that might leak through openings and cracks and get on electrical components, or that may contain solvents, corrosives, or abrasives that will harm the stainless steel coatings
- 2. If a hazardous material/substance has been spilled in the unit, immediately initiate your site's Hazardous Material Spill Containment protocol. Contact your local Site Safety Officer and follow instructions per the policy and procedures established for your site.
- 3. There are many commercially available disinfectants available that are non-corrosive and nonabrasive and suitable for use on stainless steel surfaces. Contact your local Site Safety Officer for detailed information for the proper disinfectants suitable for your operation.

Warning: Never clean the unit with alcohol or flammable cleaners and assure all volatile or flammable cleaners are evaporated and dry before reattaching the unit to the power supply.

Avertissement: Ne jamais nettoyer l'appareil à l'alcool ou avec des nettoyants inflammables et veiller à ce que les produits volatils ou inflammables soient entièrement évaporés avant de rebrancher le content d'alimentation de l'appareil.

No maintenance is required on electrical components. If the incubator fails to operate as specified, please review the Troubleshooting section prior to calling for service.

Heating and Water Level

The heating element of this bath does not contact the tank bottom, thus will not burn out if the tank is allowed to run dry. However, a tank going dry during operation can strain interior surfaces so this should not be

allowed to occur. During operation a minimum of 5cm (two inches) of distilled water should be in the tank. Check water bath water level frequently, add water as needed. Please note that at higher operating temperatures, or in applications where a cover is not used, more frequent water level checking is required.

Test-tube Racks

If the water bath tank boils dry while containing plastic-ware, the plastic will melt. If you intend to use testtube racks that are wire or plastic-coated wire that may wear and expose metal, damage may occur to the tank. It is recommended that all-plastic racks be used, and that the tank never be allowed to boil dry.

Section
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TROUBLESHOOTING

Should the unit malfunction, use this section to determine the problem and resolution. Troubleshooting topics include:

- Temperature •
- Miscellaneous

Warning: These baths are not intended for use as acid baths. Use as an acid bath will cause severe damage to bath components and void your warranty. Do not use deionized water, tap water, or chemicals. USE DISTILLED WATER ONLY.

Attention : Ces bains d'eau ne sont pas conçus pour les acides. Utiliser un tel bain comme bain d'acide l'endommagera gravement et annulera la garantie. Ne pas utiliser d'eau désionisée, d'eau du robinet ni de produits chimiques. UTILISER EXCLUSIVEMENT DE L'EAU DISTILLÉE.

Temperature Troubleshooting

Problem	Possible Cause	Solution
	Insufficient quantity of water.	Fill bath a minimum of three-fourths (3/4) full with water.
Temperature too high	Main controller set too high	See Setting Main Temperature Control
	Main controller failed on	Call customer service.
	Probe is unplugged	Call customer service.
Display reads "HI" or "400"+ Probe is broken or wire to the sensor is Call customer service. broken.		Call customer service.
Temperature spikes over set point and then settles to set point.	Calibration issue	Recalibrate.
	Over Temperature Limit is set too low.	See Setting Main Temperature Control.
Temperature is too low	Bath temperature not recovered from water being added.	Wait for display to stop changing.
	Unit not recovered from power failure or being turned off.	Bath will need a minimum of 2 hours to warm up and stabilize.
	Main controller failure	Confirm with front panel lights that controller is calling for heat.
Display reads "LO" but heating all the time	Control failure	Call customer service.

Problem	Possible Cause	Solution
Unit will not heat over a	OTL has activated.	Confirm that set point is set high enough and that the Over Temperature Safety is not activated.
temperature that is below set point	Temperature calibration is not correct.	Check calibration. Using independent thermometer, follow instructions in Calibration.
Unit will not heat up at all	Controller Fault.	Do all controller functions work? Controller failure-call Customer Service.
	OTL has activated.	Set the Over Temperature Thermostat higher.
	Insufficient quantity of water.	Fill bath a minimum of three-fourths (3/4) full with water.
	Fluctuating by ± 0.1?	May be normal, especially without the use of bath cover.
Indicated bath temperature unstable	Ambient room temperature is radically changing	Temperature fluctuation due to door opening or room airflow from heaters or air conditioning. Stabilize ambient conditions.
	Bath not full	Assure that the bath is at least 1/3 full.
	Electrical noise	Remove nearby sources of RFI including motors, arcing relays or radio transmitters
	Bad connection on temperature sensor or faulty sensor	Call customer service.
	Insufficient quantity of water.	Fill bath a minimum of three-fourths (3/4) full with water.
Will not maintain set point	Temperature set too low.	Assure that set point is at least 5 degrees over ambient room temperature.
	Ambient temperature too high.	See if ambient is fluctuating.
Cannot adjust set points or calibration	Controller hangs up.	Turn entire unit off and on to reset. If repeatedly happens, call Customer Service.
Calibrated at one temperature, but not at another	Set point too far from calibration point.	This can be a normal condition when operating temperature varies widely. For maximum accuracy, calibration should be done as close to the set point temperature as possible.
Miscellaneous Troubleshoo	oting	
Problem	Possible Cause	Solution
Water Leaking	Leak / Corrosion	Shut the unit off and call Customer Service. Service
	Wrong type of water	Assure that clean, distilled water is used. Deionized water, tap water and chemicals should never be used in the tank. USE DISTILLED WATER ONLY.
Tank Discoloration	Sample Spills	Assure that no test samples have leaked into bath water.
	Metal Racks	No metallic products should be in the tank with the exception of the oscillation rack.
	No power.	Check wall power source.
Unit will not turn on	Fuse blown.	Check fuse/circuit breaker on unit or in wall.

Service

If this product should require service, contact your customer service representative.

PARTS LIST

SWB2 (W2) 9570576 SWB2-2, (W2-2) 9570575 SWB7-2 (W6M) 9570575 SWB715 (W614 Small) 9570575 SWB715 (W614 Small) 9570695 9570696 SWB15-2 (W14M) 9570582 9570696 SWB15-2 (W14M-2) 9570582 9570683 SWB23 (W20M) 9570582 9570583 SWB23-2 (W20M-2) 9570582 9570583 SWB23-2 (W20M) 9570515 3300516 SWB2 (W2M) 9571191 9751191 SWB2 (W2M) 9751191 9751191 SWB2 (W2M) 9751184 9751184 SWB7 (W6M) 9751184 9751184 SWB15 (W14M) 9751184 9751184 SWB23 (W20M) 9751184 9751184 SWB23 (W20M) 9751184 9751184 SWB23 (W20M) 9751184 9751184 SWB15	Description	100-120V	220-240V
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SWB715 (W614 Small) SWB715-2 (W614-2 Small) Element SWB15 SWB15 (W14M) SWB715-2 Large (W614Large) SWB715-2 Large (W614Large) SWB215 (W20M) SWB23 (W20M) SWB23 (W20M-2) Fuse - 10.0 AMP 3300516 Fuse - 6.3 AMP 3300515 Gable Covers 3300515 SWB2 (W2M) SWB7-2 (W6M-2) Gable Covers 9751184 SWB15 (W14M) SWB15 (W14M) SWB15 (W14M) SWB7-2 (W6M-2) Gable Covers 9751184 SWB15-2 (W14M-2) Gable Covers 9751184 SWB23 (W20M) SWB24 (W20M-2) Cable Covers 9751184 SWB23 (W20M) SWB715 (W614M-2) SWB715 (W614M-2) SWB715 (W614M-2)	SWB7 (W6M)	9570704	9570575
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SWB715-2 Large (W614M-2 Large) Element 9570582 9570583 SWB23 (W20M) 9570582 9570583 SWB23 (W20M-2) 3300516 3300516 Fuse - 10.0 AMP 3300515 3300515 3300515 Gable Covers SWB2 (W2M) 9751191 9751191 SWB2 (W2M-2) 9751191 9751191 9751191 SWB7 (W6M) 9751184 9751184 9751184 SWB15 (W14M) 9751185 9751185 9751185 SWB23 (W20M) 9751185 9751184 9751184 SWB15 (W14M) 9751185 9751185 9751185 SWB23 (W20M) 9751184 9751184 9751184 SWB15_2 (W614M) 9751184 9751184 9751184 SWB215_2 (W614M) 9751184 9751184 9751184 SWB715_2 (W6M / W6M-2) 1750957 1750958 SWB2_S SWB-2 (W2M / W2M-2) 1750955			
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Fuse - 10.0 AMP 3300516 3300516 Fuse - 6.3 AMP 3300515 3300515 Gable Covers SWB2 (W2M) 9751191 9751191 SWB2 (W2M) 9751191 9751191 9751191 SWB7 (W6M) 9751184 9751184 9751184 SWB15 (W14M) 9751184 9751185 9751185 SWB23 (W20M) 9751185 9751185 9751185 SWB23 (W20M) 9751185 9751185 9751185 SWB23 (W20M-2) 9751184 9751184 9751191 Cable Covers 9751184 9751184 9751184 SWB715 (W614M) 9751184 9751184 9751184 SWB752 (W614M-2) 1750960 1750961 SWB2 / SWB-2 (W2M / W2M-2) 1750957 1750958 SWB15 / SWB15-2 (W14M / W14M-2) 1750955 1750958 SWB23 / SWB23-2 (W20M / W20M-2) 1750955 1750954 SWB715 / SWB715-2 (W614M / W614M-2) 1750957 1750956 Over Temperature Limit Control 1750747 1750956			
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SWB2 (W2M) 9751191 9751191 SWB2-2 (W2M-2) 9751191 9751191 SWB7 (W6M) 9751191 9751191 SWB7-2 (W6M-2) 9751184 9751184 Gable Covers SWB15-2 (W14M-2) 9751184 9751184 Gable Covers SWB23 (W20M) 9751185 9751185 SWB23 (W20M-2) 9751185 9751185 9751191 Cable Covers 9751191 9751191 9751191 SWB715 (W614M) 9751184 9751184 SWB715 (W614M-2) 1750960 1750961 SWB2 / SWB-2 (W2M / W2M-2) 1750957 1750958 SWB15 / SWB15-2 (W14M / W14M-2) 1750955 1750956 SWB2 / SWB23-2 (W20M / W20M-2) 1750955 1750956 SWB715 / SWB715-2 (W614M) 1750957 1750956 SWB715 / SWB715-2 (W614M-2) 1750955 1750956 Over Temperature Limit Control 1750957/1750955 1750958/1750956 <td>Fuse - 6.3 AMP</td> <td>3300515</td> <td>3300515</td>	Fuse - 6.3 AMP	3300515	3300515
SWB2-2 (W2M-2) 9751191 9751191 SWB7 (W6M) 9751191 9751191 SWB7 (W6M) 9751191 9751191 Gable Covers 9751184 9751184 SWB15 (W14M) 9751184 9751184 Gable Covers 9751185 9751185 9751185 SWB23 (W20M) 9751185 9751185 SWB23 (W20M-2) 9751191 9751191 Cable Covers 9751191 9751191 9751191 SWB715 (W614M) 9751184 9751184 SWB715 (W614M-2) 9751184 9751184 Microprocessor Main Temp Control 1750960 1750961 SWB2 / SWB-2 (W2M / W2M-2) 1750957 1750958 SWB15 / SWB15-2 (W14M / W14M-2) 1750955 1750956 SWB23 / SWB23-2 (W20M / W20M-2) 1750957 1750956 SWB715 / SWB715-2 (W614M) / W614M-2) 1750957 1750958 Over Temperature Limit Control 1750957/1750955 17	Gable Covers		
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SWB7-2 (W6M-2) Gable Covers 9751184 SWB15 (W14M) SWB15-2 (W14M-2) Gable Covers 9751184 SWB23 (W20M) SWB23-2 (W20M-2) Cable Covers 9751185 SWB23-2 (W614M) SWB715 (W614M-2) Microprocessor Main Temp Control 9751184 SWB7/S WB7-2 (W6M / W2M-2) SWB7/S WB7-2 (W6M / W2M-2) SWB7/S WB7-2 (W6M / W6M-2) SWB7/S WB7-2 (W14M / W14M-2) SWB2/ SWB2-2 (W20M / W20M-2) SWB2/ SWB2-3 (W20M / W20M-2) SWB2/ SWB2-3 (W20M / W20M-2) SWB2	SWB7 (W6M)		
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SWB23 (W20M) 9751185 9751185 SWB23-2 (W20M-2) 9751191 9751191 Cable Covers 9751191 9751191 SWB715 (W614M) 9751184 9751184 SWB715-2 (W614M-2) 9751184 9751184 Microprocessor Main Temp Control 1750960 1750961 SWB2 / SWB-2 (W2M / W2M-2) 1750957 1750958 SWB15 / SWB7-2 (W614M / W14M-2) 1750955 1750956 SWB23 / SWB23-2 (W20M / W20M-2) 1750953 1750954 SWB715 / SWB715-2 (W614M / W614M-2) 1750957/1750955 1750958/1750956 Over Temperature Limit Control 1750747 1750747 Pilot Lamp Green 4650554 4650554 Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500			
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SWB715 (W614M) 9751191 9751191 SWB715-2 (W614M-2) 9751184 9751184 Microprocessor Main Temp Control 1750960 1750961 SWB2 / SWB-2 (W2M / W2M-2) 1750957 1750958 SWB7 / SWB7-2 (W6M / W6M-2) 1750955 1750956 SWB23 / SWB23-2 (W20M / W20M-2) 1750953 1750954 SWB715 / SWB715-2 (W614M / W614M-2) 1750957/1750955 1750958/1750956 Over Temperature Limit Control 1750747 1750747 Pilot Lamp Green 4650553 4650553 Power Cord 1800510 1800500			
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SWB715-2 (W614M-2) 9751184 9751184 Microprocessor Main Temp Control SWB2 / SWB-2 (W2M / W2M-2) 1750960 1750961 SWB7 / SWB7-2 (W6M / W6M-2) 1750957 1750958 SWB15 / SWB15-2 (W14M / W14M-2) 1750955 1750956 SWB23 / SWB23-2 (W20M / W20M-2) 1750957/1750955 1750954 SWB715 / SWB715-2 (W614M / W614M-2) 1750957/1750955 1750958/1750956 Over Temperature Limit Control 1750747 1750747 Pilot Lamp Green 4650554 4650554 Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500	SWB715 (W614M)		
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SWB2 / SWB-2 (W2M / W2M-2) 1750960 1750961 SWB7 / SWB7-2 (W6M / W6M-2) 1750957 1750958 SWB15 / SWB15-2 (W14M / W14M-2) 1750955 1750956 SWB23 / SWB23-2 (W20M / W20M-2) 1750957/1750955 1750954 SWB715 / SWB715-2 (W614M / W614M-2) 1750957/1750955 1750958/1750956 Over Temperature Limit Control 1750747 1750747 Pilot Lamp Green 4650554 4650554 Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500			
SWB7 / SWB7-2 (W6M / W6M-2) 1750957 1750958 SWB15 / SWB15-2 (W14M / W14M-2) 1750955 1750956 SWB23 / SWB23-2 (W20M / W20M-2) 1750953 1750954 SWB715 / SWB715-2 (W614M / W614M-2) 1750957/1750955 1750958/1750956 Over Temperature Limit Control 1750747 1750747 Pilot Lamp Green 4650554 4650554 Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500		1750960	1750961
SWB15 / SWB15-2 (W14M / W14M-2) 1750955 1750956 SWB23 / SWB23-2 (W20M / W20M-2) 1750953 1750954 SWB715 / SWB715-2 (W614M / W614M-2) 1750957/1750955 1750958/1750956 Over Temperature Limit Control 1750747 1750747 Pilot Lamp Green 4650554 4650554 Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500			
SWB23 / SWB23-2 (W20M / W20M-2) 1750953 1750954 SWB715 / SWB715-2 (W614M / W614M-2) 1750957/1750955 1750958/1750956 Over Temperature Limit Control 1750747 1750747 Pilot Lamp Green 4650554 4650554 Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500			
SWB715 / SWB715-2 (W614M / W614M-2) 1750957/1750955 1750958/1750956 Over Temperature Limit Control 1750747 1750747 Pilot Lamp Green 4650554 4650554 Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500			
Over Temperature Limit Control 1750747 1750747 Pilot Lamp Green 4650554 4650554 Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500			
Pilot Lamp Green 4650554 4650554 Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500	Over Temperature Limit Control		
Pilot Lamp Red 4650553 4650553 Power Cord 1800510 1800500			
Power Cord 1800510 1800500			
POWELOWIICO / X50553 / /X50553 /	Power Switch	7850553	7850553

Rubber Feet with Screws	2700513	2700513
Tank Gasket	3450538	3450538
Tanks		
SWB2 (W2M)	7930521	7930521
SWB2-2 (W2M-2)		
Tanks		
SWB7 (W6M)		
SWB7-2 (W6M-2)	7930523	7930523
SWB715 (W614M)		
SWB715-2 (W614M-2)		
Tanks		
SWB15 (W14M)		
SWB15-2 (W14M-2)	7930525	7930525
SWB715 (W614M)		
SWB715-2 (W614M-2)		
Tanks		
SWB23 (W20M)	7930524	7930524
SWB23-2 (W20M-2)		



UNIT SPECIFICATIONS

Table 3. Weight		
Model	Shipping	Net
SWB2 SWB2-2	21 lbs.	14 lbs.
(W2M W2M-2)	9.53 kg.	6.35 kg.
SWB7 SWB72-2	21 lbs.	14 lbs.
(W6M W6M-2)	9.53 kg.	6.35 kg.
SWB15 SWB15-2	26.5 lbs.	18 lbs.
(W14M W14M-2)	12.02 kg.	8.16 kg.
SWB23 / SWB2302	29 lbs.	25 lbs.
(W20M W20M-2)	13.15 kg.	11.34 kg.
SWB715 SWB715-2	42 lbs.	39 lbs.
(W614M W614M-2)	19.05 kg.	17.69 kg.

Table 4. Dimensions

Model	Exterior WxDxH	Interior WxDxH
SWB2 SWB2-2	14.75 x 12.25 x 12.1 in.	11.8 x 5.8 x 2.5 in.
(W2M W2M-2)	37.47 x 31.12 x 30.73 cm.	29.98 x 14.73 x 6.35 cm.
SWB7 SWB72-2	14.75 x 12.25 x 12.1 in.	11.8 x 5.8 x 6 in.
(W6M W6M-2)	37.47 x 31.12 x 30.73 cm.	29.98 x 14.73 x 15.24 cm.
SWB15 SWB15-2	14.75 x 19 x 12.1 in.	11.8 x 12.8 x 6 in.
(W14M W14M-2)	37.47 x 48.26 x 31.12 cm.	29.98 x 32.51 x 15.24 cm.
SWB23 / SWB2302	14.75 x 25 x 12.1 in.	11.5 x 19.5 x 6 in.
(W20M W20M-2)	37.47 x 63.50 x 31.12 cm.	29.21 x 49.53 x 15.24 cm.
	14.75 x 12.25 x 12.1 in. (small)	11.8 x 5.8 x 6 in. (small)
SWB715 SWB715-2	14.75 x 19 x 12.1 in. (large)	11.8 x 12.8 x 6 in.(large)
(W614M W614M-2)	37.47 x 31.12 x 30.73 cm. (small)	29.98 x 14.73 x 15.24 cm. (small)
	37.47 x 48.26 x 31.12 cm (large)	29.98 x 32.51 x 15.24 cm. (large)

Table 5. Capacity

Model	Liters/Fill Line	Liters/Flush
SWB2 SWB2-2	1.6	2.4
(W2M W2M-2)		2.4
SWB7 SWB72-2	4.7	5.75
(W6M W6M-2)		
SWB15 SWB15-2	11.225	14.75
(W14M W14M-2)		
SWB23 / SWB2302	14	17
(W20M W20M-2)		
SWB715 SWB715-2	4.7 (small tank)	5.75 (small tank)
(W614M W614M-2)	11.225 (large tank)	14.75 (large tank)

Table 6. Temperature

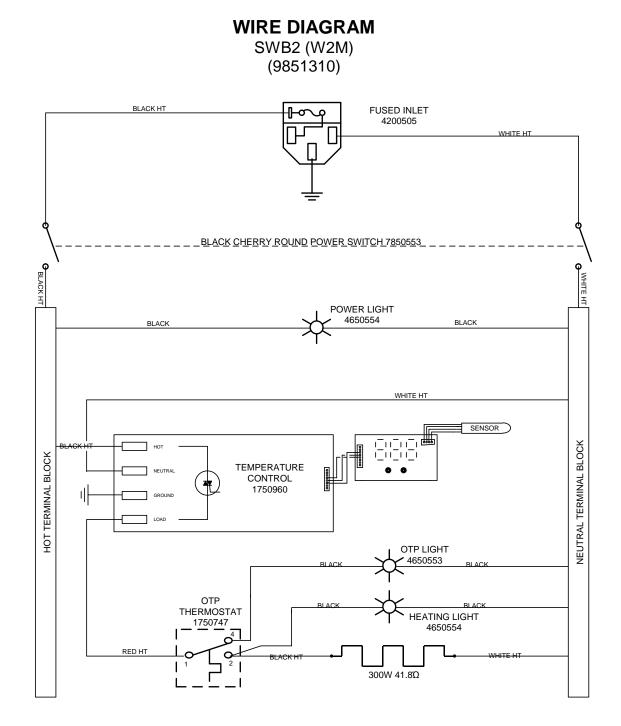
Model	Range	Uniformity	Sensitivity
SWB2 SWB2-2	Amb. +5°C to 80°C	+.2°C @ 37°C	+ .1°C
(W2M W2M-2)			
SWB7 SWB72-2	Amb. +5°C to 80°C	+.2°C @ 37°C	+ .1°C
(W6M W6M-2)			
SWB15 SWB15-2	Amb. +5°C to 80°C	+.2°C @ 37°C	+ .1°C
(W14M W14M-2)			
SWB23 / SWB2302	Amb. +5°C to 80°C	+.2°C @ 37°C	+ .1°C
(W20M W20M-2)			
SWB715 SWB715-2	Amb. +5°C to 80°C	+.2°C @ 37°C	+ .1°C
(W614M W614M-2)			

Table 7. Power Requirements

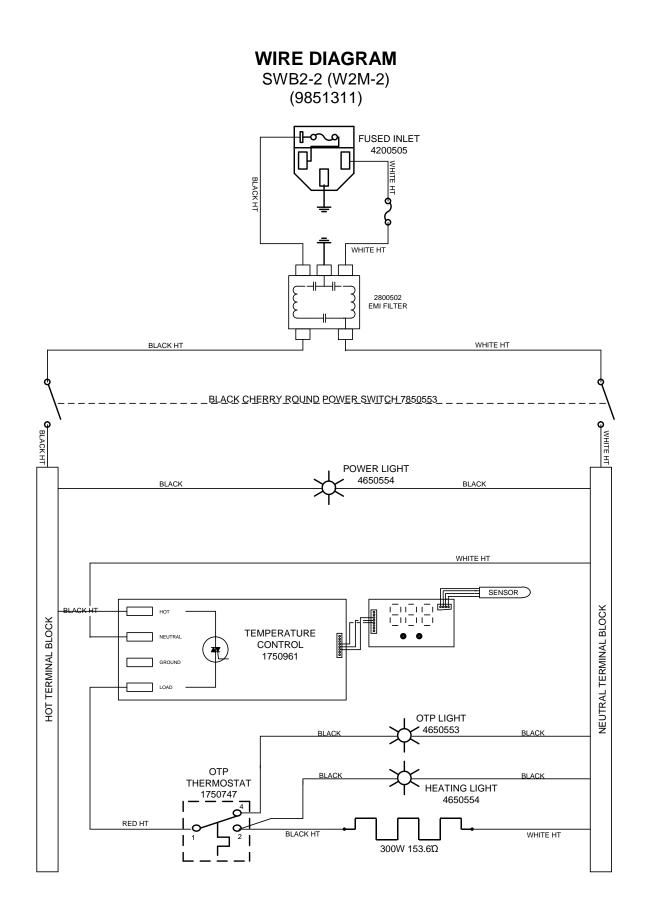
Model	Voltage	Voltage -2 Models
SWB2 SWB2-2	Volts 100-120 V~ 3 A 50/60 Hz	Volts 220-240 V~ 2 A 50/60 Hz
(W2M W2M-2)		
SWB7 SWB72-2	Volts 100-120 V~ 3 A 50/60 Hz	Volts 220-240 V~ 2 A 50/60 Hz
(W6M W6M-2)		
SWB15 SWB15-2	Volts 100-120 V~ 5 A 50/60 Hz	Volts 220-240 V~ 3 A 50/60 Hz
(W14M W14M-2)		
SWB23 / SWB2302	Volts 100-120 V~ 5 A 50/60 Hz	Volts 220-240 V~ 3.5 A 50/60 Hz
(W20M W20M-2)		
SWB715 SWB715-2	Volts 100-120 V~ 8 A 50/60 Hz	Volts 220-240 V~ 4.5 A 50/60 Hz
(W614M W614M-2)		



SCHEMATICS



Microprocessor Control Water Baths



WIRE DIAGRAM SWB7 (W6M)

(9851302)

