

1.0 Reference and Address			
Report Number	231012005GZU-001	Original Issued:	4-Feb-2024
		Revised:	29-Feb-2024
Standard(s)	Electric Spas, Equipment Assemblies, and Associated Equipment [UL 1563:2009 Ed.6+R:10Sep2020]		
	Spas, Hot Tubs, and Associated Equipment (R2017) [CSA C22.2#218.1:2013 Ed.2+E1;E2]		
Applicant	Guangzhou Romex Sanitary Ware Co., Ltd	Manufacturer	Guangdong zishu Technology Co., Ltd
Address	No.30, Shangdapu District, Gaopu, Taiping Town, Conghua, Guangzhou, Guangdong	Address	Fuyuan Road, Xiangang town, Gaoyao District, Zhaoqing City, Guangdong Province
Country	China	Country	China
Contact	Mrs. Luwenjuan	Contact	Mrs. Luwenjuan
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2.0 Product Description		
Product	Outdoor Spa	
Brand name	EASE SPAS	
Description	The product covered by this report are Spa having a rating of 240V, 60Hz, indoor and outdoor use, self-contained, intended for installation to permanent wiring system by authorized professional person and connected to a circuit protected by a recognized ground-fault circuit-interrupter (GFCI).	
Models	M-770D, M-780D, M-342D, M-374D, E-133S, E-152S, E-174S, E-162S,M-353D, M-520D, E-340D, P-580T, P-920T, SW-35A3, SW-50B4, SW-52A3, SW-59A3, SW-70A2-A, SW-70A2-B, SW-72A2, SW-71A2.	
Model Similarity	See Illustration 3 - Table for Model Similarity.	
Ratings	M-770D, M-780D, M-342D, M-374D, E-133S, E-152S, E-174S, E-162S,M-353D, M-520D, E-340D, SW-50B4, SW-70A2-A	240Vac,60Hz, 24.5A
	P-580T	240Vac, 60Hz, 25.6A
	P-920T	240Vac, 60Hz, 26.7A
	SW-35A3	240Vac, 60Hz, 29.8A
	SW-52A3, SW-70A2-B	240Vac, 60Hz,28.2A
	SW-59A3	Swim area: 240Vac, 60Hz, 24.5A Spa area: 240Vac,60Hz, 24.5A
	SW-72A2	Swim area:240Vac,60Hz, 43.7A Spa area: 240Vac,60Hz, 40.4A
	SW-71A2	Swim area: 240Vac, 60Hz, 43.7A Spa area: 240Vac,60Hz, 24.5A
Other Ratings	NA	

3.0 Product Photographs

Photo 1 - External view of model E-133S



Photo 2 - External view of model E-133S



3.0 Product Photographs

Photo 3 - External view of model E-152S



Photo 4 - External view of model E-152S



3.0 Product Photographs

Photo 5 - External view of model E-162S



Photo 6 - External view of model E-162S



3.0 Product Photographs

Photo 7 - External view of model E-174S



Photo 8 - External view of model E-174S



3.0 Product Photographs

Photo 9 - External view of model E-340D



Photo 10 - External view of model E-340D



3.0 Product Photographs

Photo 11 - External view of model M-342D



Photo 12 - External view of model M-342D



3.0 Product Photographs

Photo 13 - External view of model M-353D



Photo 14 - External view of model M-353D



3.0 Product Photographs

Photo 15 - External view of model M-374D



Photo 16 - External view of model M-374D



3.0 Product Photographs

Photo 17 - External view of model M-520D



Photo 18 - External view of model M-520D



3.0 Product Photographs

Photo 19 - External view of model M-770D



Photo 20 - External view of model M-770D



3.0 Product Photographs

Photo 21 - External view of model M-780D



Photo 22 - External view of model M-780D



3.0 Product Photographs

Photo 23 - External view of model P-580T

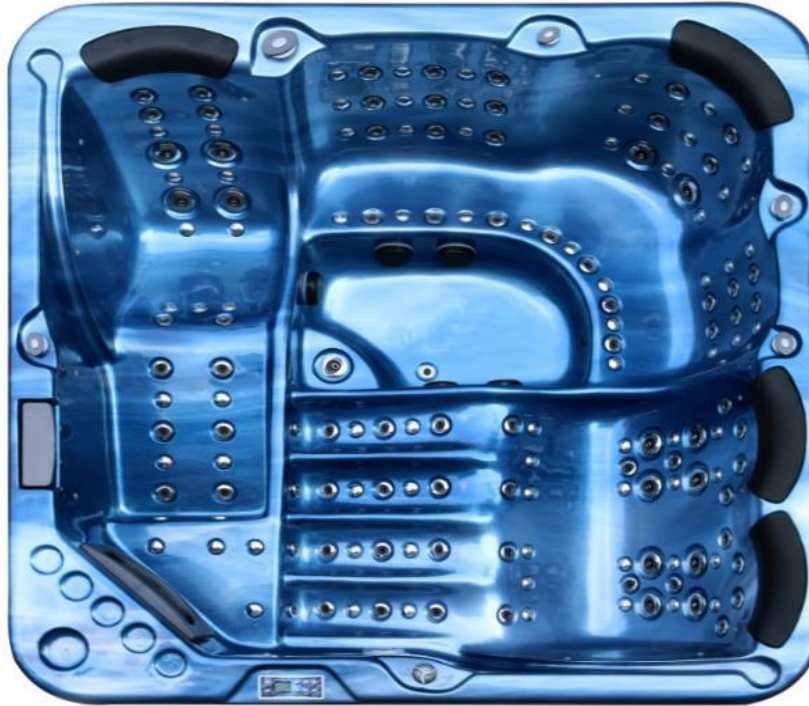


Photo 24 - External view of model P-580T



3.0 Product Photographs

Photo 25 - External view of model P-920T



Photo 26 - External view of model P-920T



3.0 Product Photographs

Photo 27 - External view of model SW-35A3



Photo 28 - External view of model SW-35A3



3.0 Product Photographs

Photo 29 - External view of model SW-50B4



Photo 30 - External view of model SW-50B4



3.0 Product Photographs

Photo 31 - External view of model SW-52A3



Photo 32 - External view of model SW-52A3



3.0 Product Photographs

Photo 33 - External view of model SW-59A3



Photo 34 - External view of model SW-59A3



3.0 Product Photographs

Photo 35 - External view of model SW-70A2-A



Photo 36 - External view of model SW-70A2-A



3.0 Product Photographs

Photo 37 - External view of model SW-70A2-B



Photo 38 - External view of model SW-70A2-B



3.0 Product Photographs

Photo 39 - External view of model SW-71A2



Photo 40 - External view of model SW-71A2



3.0 Product Photographs

Photo 41 - External view of model SW-72A2



Photo 42 - External view of model SW-72A2



3.0 Product Photographs

Photo 43 - Model SW-72A2

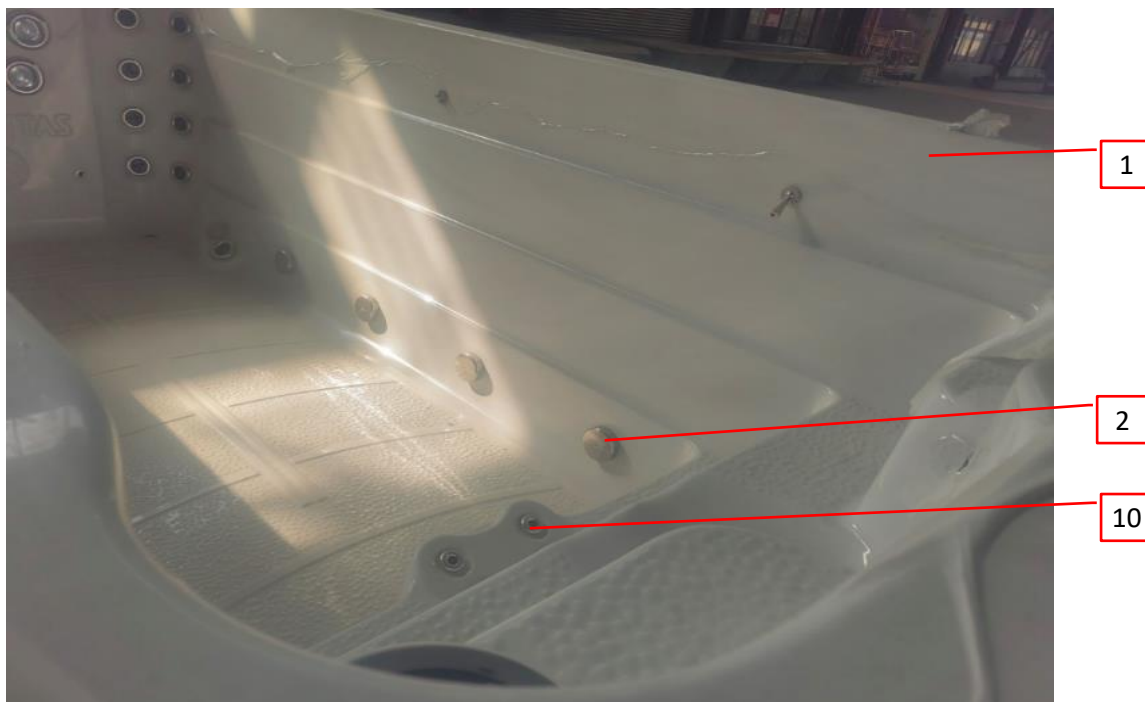


Photo 44 - Internal View (with enclosure skirt removed)



3.0 Product Photographs

Photo 45 - Internal View (with enclosure skirt removed and Remove the tarp)

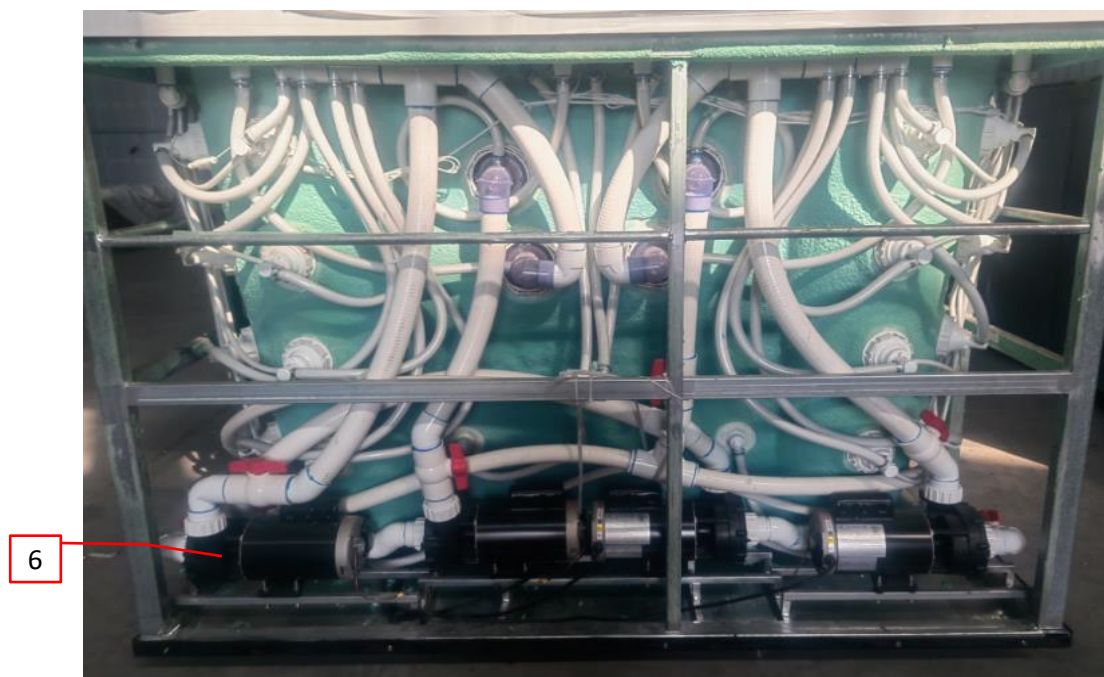
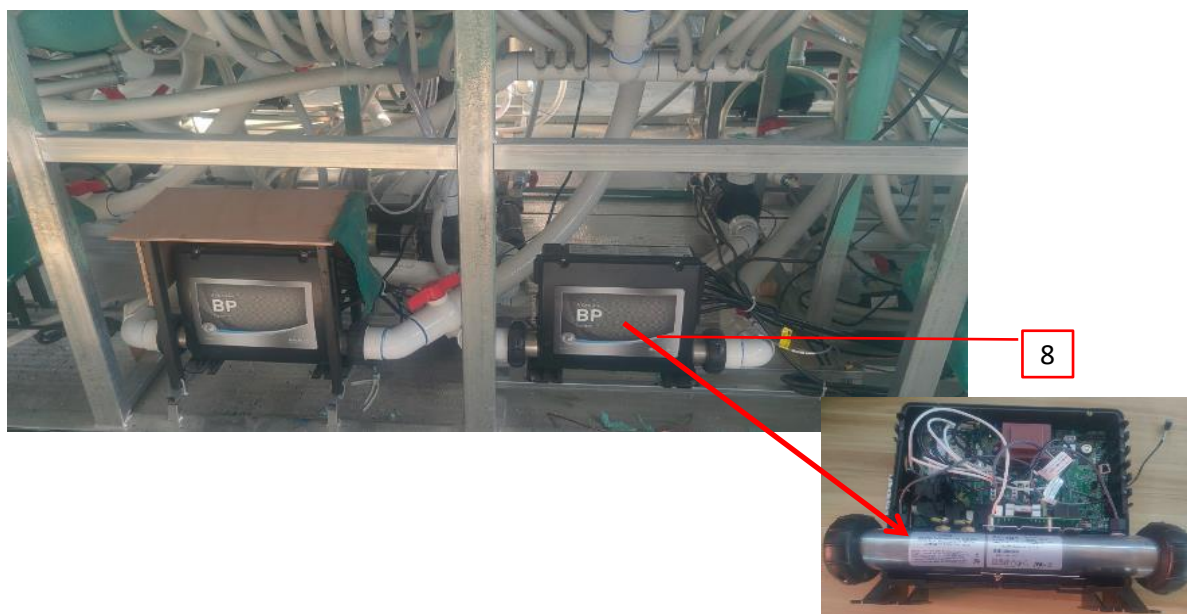


Photo 46 - Internal View (with enclosure skirt removed and Remove the tarp)



3.0 Product Photographs

Photo 47 - Internal View (with enclosure skirt removed and Remove the tarp)



Photo 48 - Internal View (with enclosure skirt removed and Remove the tarp)



3.0 Product Photographs

Photo 49 - Spa Controller with bonding bus

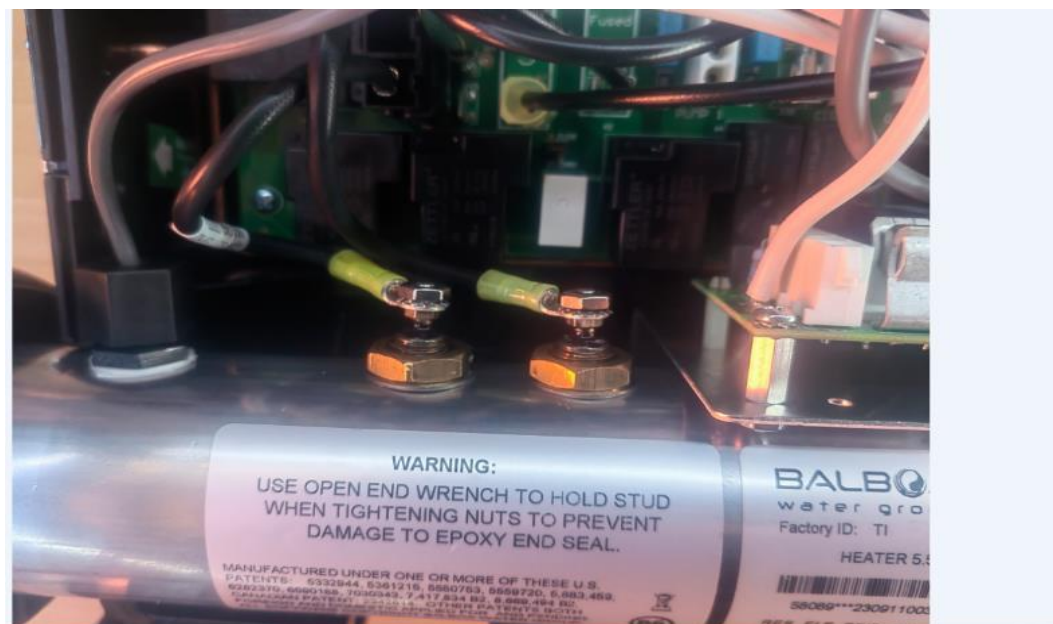


Photo 50 - Internal View (with enclosure skirt removed and Remove the tarp)



3.0 Product Photographs

Photo 51 - Internal View (with enclosure skirt removed)

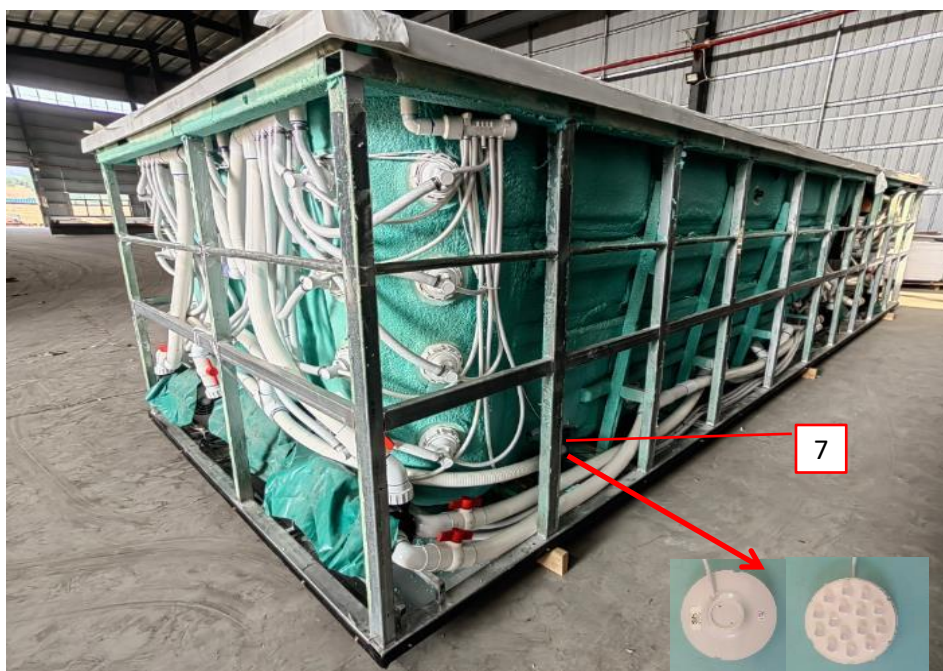


Photo 52 - Grounding Bonding each pump with bonding conductor.



3.0 Product Photographs

Photo 53 - Pump Bracket

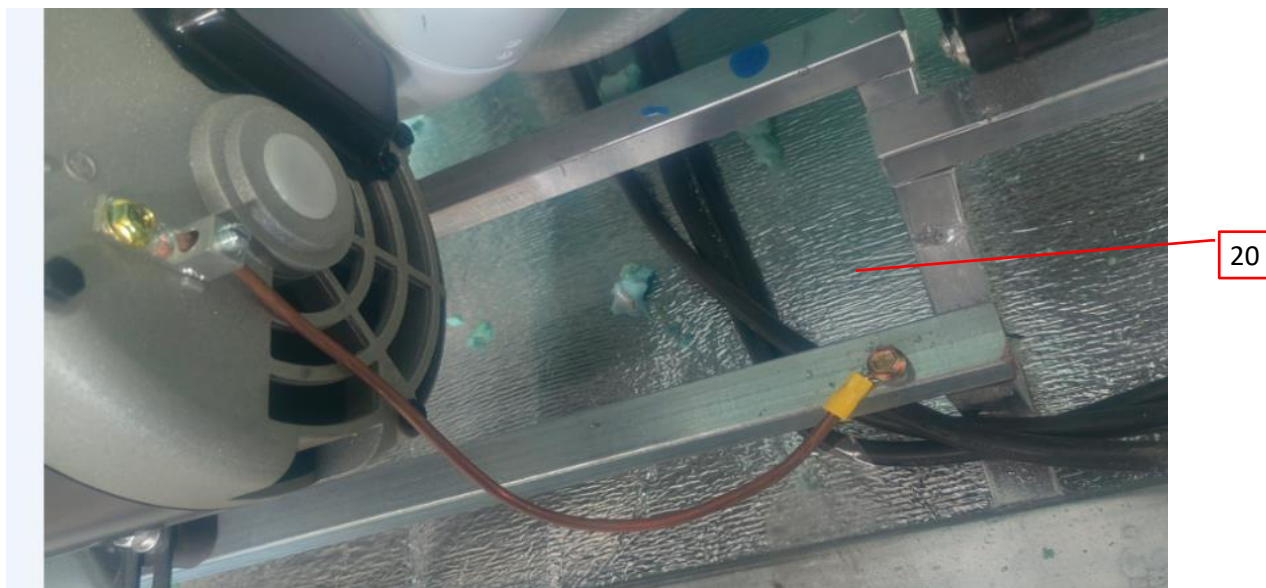
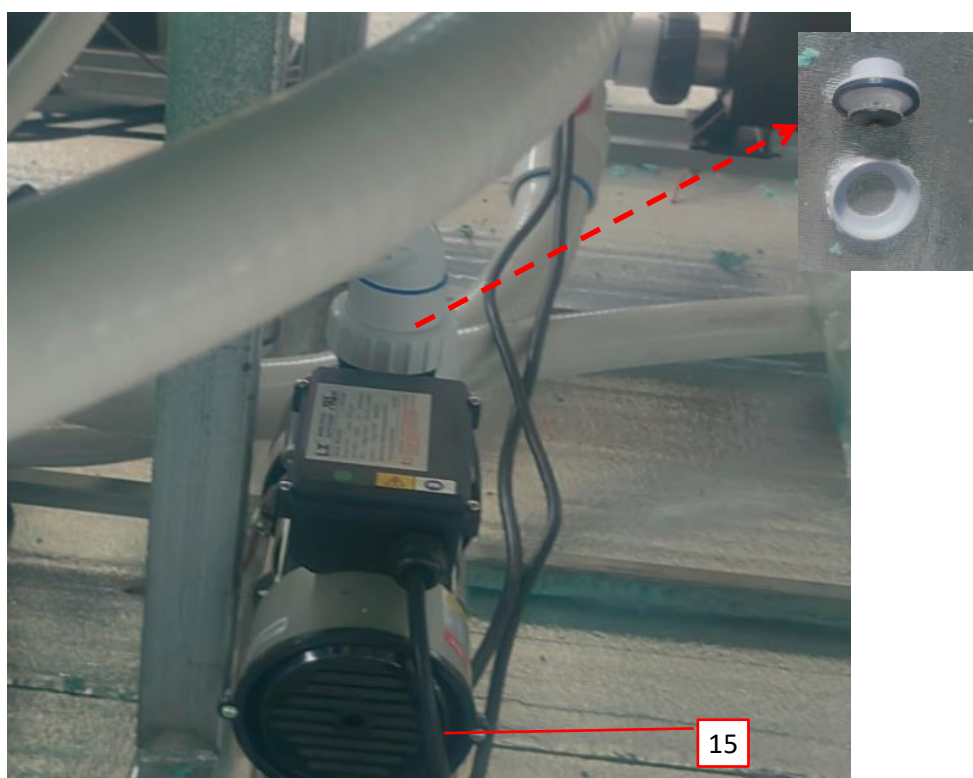


Photo 54 - Circulating pump (Remove the tarp)



3.0 Product Photographs

Photo 55 - Internal View (with enclosure skirt removed and Remove the tarp)



Photo 56 - Skimmer



3.0 Product Photographs

Photo 57 - Skimmer



Photo 58 - Drain-Pipe View



4.0 Critical Components

Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
43	1	Spa Shell	Aristech Surfaces LLC (E87207)	Quarite (f1)	Polymethyl Methacrylate. All color, rated HB, 50°C. Reinforced by Fiber clothes and epoxy. Measured min. 7.0 mm thick. Coated with PUR (rated min. HBF) foam as keep-warm layer. Supported by metal bracket.	cURus
43	2	Suction Fitting	CUSTOM MOLDED PRODUCTS INC (SA10477)	25215	Rated 170GPM. Fixed to Bracket by screw and secured to the Spa Shell by Plastic nut, sealed by Silicone Ring. Mounted on the wall of spa and shall not be used as a seat, step, or support structure facilitating entry or exit from the spa. Each suction openings may be shared by more than one pump, provided each pump can draw water from two or more openings. Refer to section 7.0 for the quantity for each model.	cURus
44	3	Pipes and Fittings	Various	Various	PVC material. Measured 0.30 to 0.72 mm thick. Assembled by Solvent Cements.	cURus
44	4	Solvent Cements (not shown)	OATEY CO (E196312)	30237	White silicone sealant. Rated 105° C. Adhering all connections among PVC accessories.	cURus
44	5	Waterproof cloth	Various	Various	For each water pumps.	NR
45	6	Water jet pump	GUANGDONG LINGXIAO PUMP INDUSTRY CO LTD (E342873)	56WUA200-I	Rated 220-240V, 60Hz, 8A, Class 155(F). Suitable for outdoor use. Secured to Metal Bracket by bolts through rubber pad and nuts.	cURus
				56WUA300-I	Rated 220-240V, 60Hz, 10A, Class 155(F). Suitable for outdoor use. Secured to Metal Bracket by bolts through rubber pad and nuts.	cURus
				56WUA300-II	Rated 220-240V, 60Hz, 10A, Class 155(F). Suitable for outdoor use. Secured to Metal Bracket by bolts through rubber pad and nuts.	cURus

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
51	7	Bottom lamp	Guangzhou Rising Dragon Recreation Industrial Co., Ltd.	L15SF-G0ATL	Input: 5Vdc, 3W max. Consisting of items 7a to 7i:	NR
51	7a	Lamp housing (not shown)	NAN YA PLASTICS (HUI ZHOU) CORP LTD	5732(f1)	ABS/PC. Rated V-0, 60°C. Measured min. 1.5 mm thick.	cURus
51	7b	Lamp cover (not shown)	NAN YA PLASTICS (HUI ZHOU) CORP LTD	5732(f1)	ABS/PC. Rated V-0, 60°C. Measured min. 2.5 mm thick.	cURus
51	7c	LED PCB (not shown)	Various	Various	Rated V-0, 130°C, measured min. 1.2 mm thick. Comply with UL 796.	UR
51	7d	Potting compound (not shown)	Various	Various	Epoxy material. Rated V-0 at least, 50°C. Measured min. 2.5 mm thick.	cURus
51	7e	Fixation nut (not shown)	Various	Various	PC material. HB at least, min. 50 °C. Measured min. 2.0 mm thick.	cURus
51	7f	Connector cover (not shown)	Various	Various	PVC material. V-0 at least, min. 50°C. Measured min. 2.0 mm thick.	cURus
51	7g	Connector bracket (not shown)	Various	Various	PA66 material. V-0 at least, min. 50°C. Measured min. 2.0 mm thick.	cURus
51	7h	Lead wire (not shown)	Various	Various	Jacketed Cable. Suitable for outdoor use, 300V, VW-1, 80°C, 26-28 AWG x 4C.	cURus
51	7i	Seal ring (not shown)	Various	Various	Silicone, 150°C. Measured min. 2.0 mm in relived condition.	UR

4.0 Critical Components

Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
46	8	Spa Controller	BALBOA WATER GROUP LLC (E90059)	BP2000G1	Rated 240V, 60Hz, max. 48A, 3 wire (including ground wire). Including electric water heater, temperature regulating and limiting controls, water temperature probes, topside controllers, LED Lighting system; and control a number of external loads including water pumps, UV/Ozone Water Sterilizer or Ozone Generator. Suitable for outdoor use. Provided with a Electric water heater type MILXX-YY comply with UL1261. Secured to metal bracket by screws. Mounted no less than 4 inches (102 mm) above the install floor.	cURus
			BALBOA WATER GROUP LLC (E90059)	BP100G1	Rated 240V, 60Hz, max. 48A, 3 wire (including ground wire). Including electric water heater, temperature regulating and limiting controls, water temperature probes, topside controllers, LED Lighting system; and control a number of external loads including water pumps, UV/Ozone Water Sterilizer or Ozone Generator. Suitable for outdoor use. Provided with a Electric water heater type MILXX-YY comply with UL1261. Secured to wooden bracket by screws. Mounted no less than 4 inches (102 mm) above the install floor.	cURus
				BP100G2		

4.0 Critical Components

Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
48	9	Air Blower	GUANGDONG LINGXIAO PUMP INDUSTRY COLTD (E329871)	APW400-2	Rated 220-240V, 60Hz, 2.6A. Contains a motor type ML2240B and a heater rated 180W. Provided with two separate and independent means to prevent back flow (water backflow loop and a check valve). Covered by Waterproof cloth.	cURus
				APW700-2	Rated 220-240V, 60Hz, 4A. Contains a motor type ML2270B and a heater rated 180W. Provided with two separate and independent means to prevent back flow (water backflow loop and a check valve). Covered by Waterproof cloth.	cURus
				APW900-2	Rated 220-240V, 60Hz, 5A. Contains a motor type ML2290B and a heater rated 180W. Provided with two separate and independent means to prevent back flow (water backflow loop and a check valve). Covered by Waterproof cloth.	cURus
43	10	Jet Nozzle	Various	Various	1", 2.25", 3.5", 5", 5.2", 6", 7.5". 10", 15". ABS material. Consisting of Jet Body, Jet Container and Fixation Nut. Measured min. 3.0 mm thick. Connected to water system by PVC flexible hose, Adhesived with PVC flexible hose by Solvent Cements, pressed by metal Clamp and sealed by Silicone Ring.	NR
24	11	Jet Nozzle Sealing Ring (not shown)	KUNSHAN ZHONGDI MATERIALS TECHNOLOGY CO LTD	TSP-9000	SIR material. Rated V-0, 150°C. Measured min. 1.5mm thick.	cURus
48	12	Check Valve	Various	Various	Consisting of PVC body, Silicone Disc and Spring. Assembled by integral screw shell of PVC body. Measured min. 2.8 mm thick. For inspection and service only, it shall not be adjusted by the occupant.	NR

4.0 Critical Components

Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
52	13	Bonding Conductor	Various	Various	Solid copper not smaller than 6 AWG (13.3 mm ²). Pressed by crimped eyelet and connected to metal bracket by grounding Lug. Bonding wire among Metal bracket, Spa controller, Jet Pump, Air Blower, Ozonator and Circulation pump.	NR
52	14	Grounding Lug	Various	Various	Pressure wire connector. Suitable for minimum No. 6 AWG solid copper conductor. Secured to metal bracket by a screw.	NR
54	15	Circulating pump	GUANGDONG LINGXIAO PUMP INDUSTRY CO LTD (E237565)	WCA100	Rated 110-120Vac, 60Hz, 7A. No load speed: 3450RPM, Class155(F). Covered by Waterproof cloth.	cURus
			GUANGDONG LINGXIAO PUMP INDUSTRY CO LTD (E237565)	WCA50	Rated 110-120Vac, 60Hz, 4A. No load speed: 3450RPM, Class155(F). Covered by Waterproof cloth.	cURus
			GUANGDONG LINGXIAO PUMP INDUSTRY CO LTD (E342873)	WTC50M	Rated 220-240Vac, 60Hz, 1A. No load speed: 1700RPM, Class155(F). Covered by Waterproof cloth.	cURus
55	16	Metal Bracket	Various	Various	Galvanized steel. Measured 25 mm x 25 mm in section and min. 2 mm thick. Assembled by electric welding. Supporting Spa Shell and Live parts and keeping live parts min. 102 mm above the surface on which the unit will ultimately be installed.	NR
55	17	PVC Pipe and Fittings	Various	Various	2", 1.5", 1", 3/4", 3/8". PVC material. Fittings Including Bends, Sanitary Tees, Double Wyes, Coupling, Reducing Combination Wyes and etc., Measured min. 3.5 mm thick. Assembled by Solvent cements.	NR

4.0 Critical Components

Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
56	18	Skimmer	Various	Various	Floating Weir Style Skimmer. PVC material. Consisting of Paper Filter(s), basket (barrier) with mesh openings, skimmer cover. Provided with a vacuum break ring. The vacuum break ring is part of the skimmer body, and is provided minimum of six openings evenly distributed along the diameter of the skimmer body having a total area of minimum 2.7 inches ² (6.8 cm ²), allowing water to flow into the skimmer from the sides in addition to the top. Secured to Spa Shell by a nut and sealed by Silicone Ring.	NR
42	19	Wooden skirting	Various	Various	Wood Plastic Sheetting. Treated by embalmment and suffocating. Measured 10 mm thick. Pile up with each other and Secured by stainless steel which isolated from all internal wiring and is not grounded or likely to become grounded. Provided a knockout for connection of rigid metal conduit, located wholly below the lowest uninsulated live part.	NR
53	20	Bottom Base	Aristech Surfaces LLC (E87207)	Quarite (f1)	Polymethyl Methacrylate. All color, rated HB, 50°C.	cURus
47	21	Ozonator	ZHEJIANG BEYOK TECHNOLOGY CO. LTD (E525146)	FQT-124	Rated 110-240Vac, 50/60HZ, 5.5W. Covered by Waterproof cloth. Provided with One-way Valve to restriction backflow.	cURus
10	22	Marking label (not shown)	Various	Various	Suitable for PMMA or wood, min. 60°C.	cULus

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and

descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

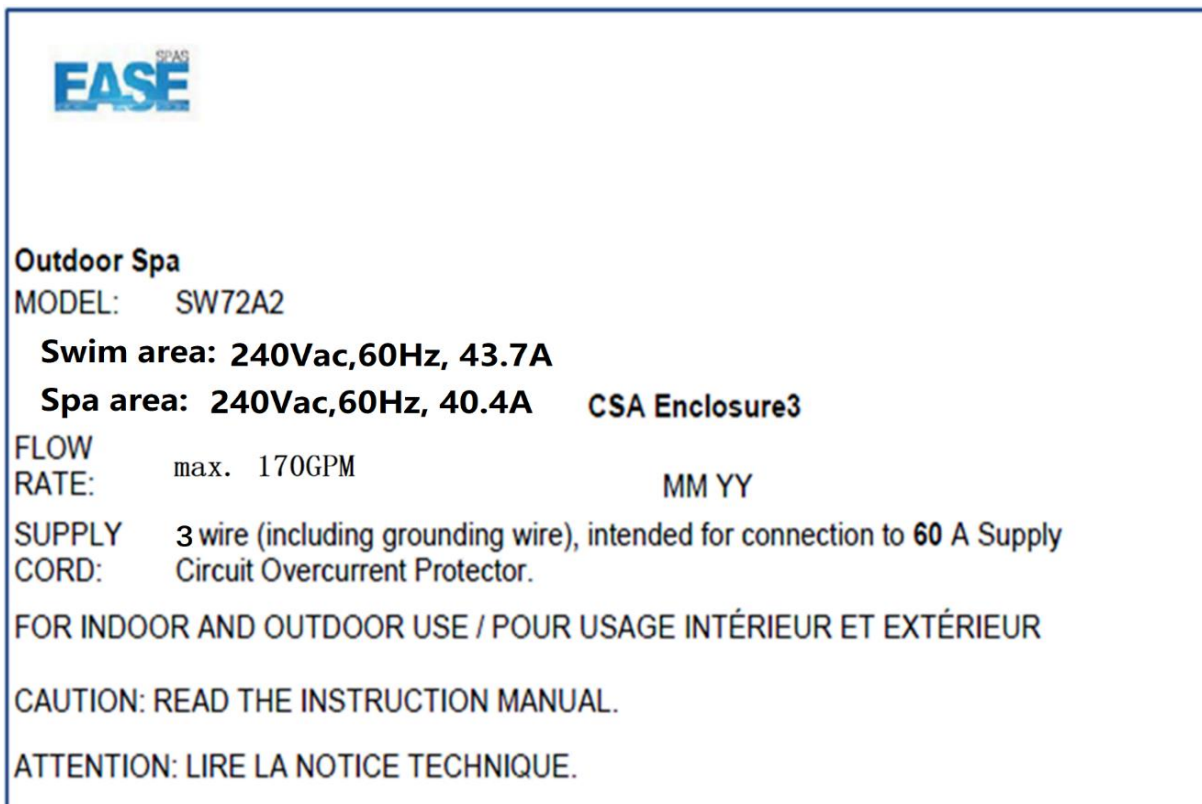
1. Spacings - In primary circuits, minimum spacings are maintained 2.4 mm through air and 3.0 over surfaces of insulating material between current-carrying parts of opposite polarity and between current-carrying parts and dead-metal parts.
The spacings between field wiring terminals of opposite polarity or between the field wiring terminal and other uninsulated metal parts, not of the same polarity, are minimum 6.4 mm through-air and over-surface.
The spacings between a Class 2 circuit and non-Class 2 circuits, and accessible metal, and grounded metal shall not be less than 2.4 mm.
2. Mechanical Assembly - Components such as switches, connectors, wiring terminals and display lamps are reliably mounted and prevented from shifting or rotating by lock washers, star washers, or the mounting format:
 - Min. 305 mm shall be maintained between leakage current collector and the nearest opening to the tub;
 - The lowest portion of any live part in a hot tub or spa shall be at least 102 mm above the surface on which the unit will ultimately be installed.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - This product is not provided with a means of grounding as it is. All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the equipment grounding terminal.
6. Internal Wiring - Internal wiring is reliably routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. An open-end space lug shall not be used unless means are provided to hold the lug in place when the wire-binding screw or nut becomes slightly loose. Upturned ends on the tang of the lug or a retaining barrier may be used to hold the lug in place.
7. Schematics - Refer to Illustration 1a for schematics requiring verification during Field Representative Inspection Audits.

6.0 Critical Features

8. Markings - The product is marked on a labeling system as described in item no. 22 of Section 4.0 as follows:
applicant's name,
model number;
date of manufacture;
electrical ratings.
Flow rate.
Refer to Illustrations 1 for layout.
9. Cautionary Markings - The following are required:
Refer to Illustrations 1, 1a to 1e for layouts.
10. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustrations 2, 2a to 2i for details.

7.0 Illustrations

Illustration 1 - Marking and cautionary marking

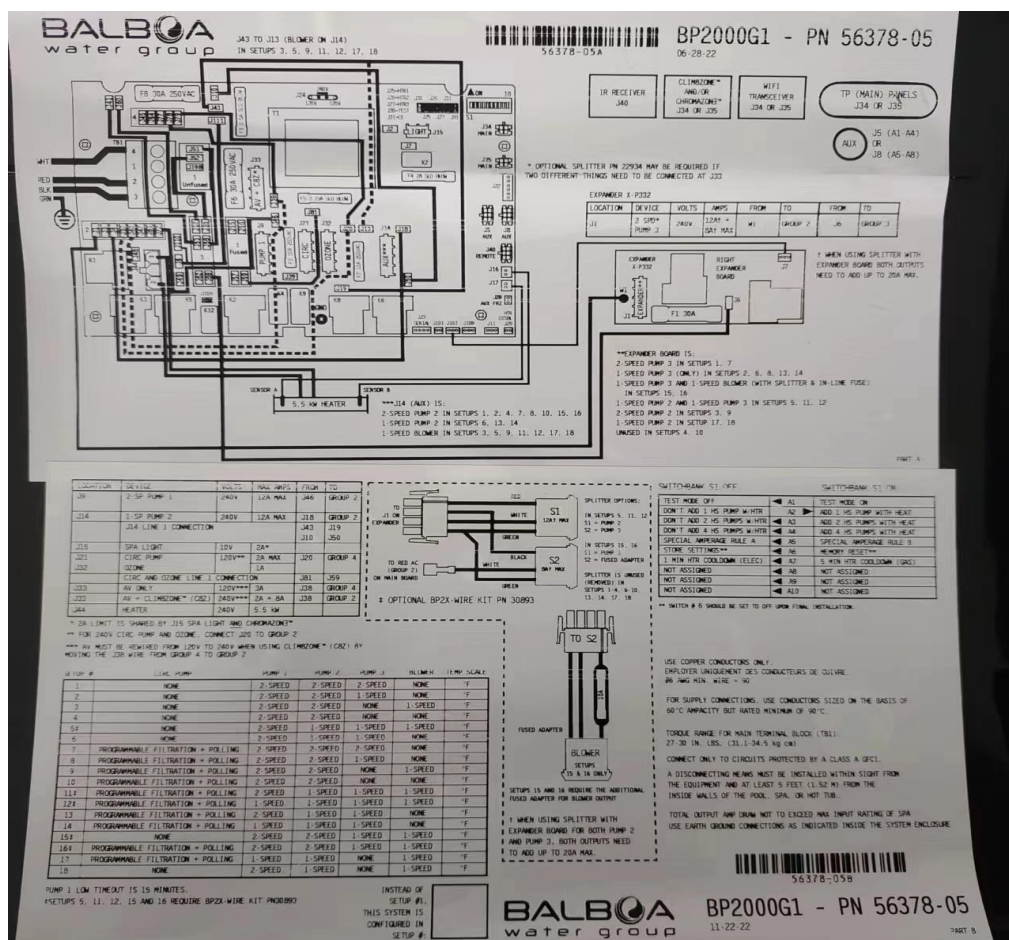


Remark:

1. The Markings of all models are identical except type designation and electric rating. For the electric rating on Marking label, refer to Sec. 2.0 for details.
2. Date code "MMYY" stands for month and year of manufacturing.
3. All cautionary texts shall not less than 2.4mm in height.

Illustration 1a - Marking wiring diagram and cautionary

Wiring diagram for controller type BP100G1, BP100G2



7.0 Illustrations

Illustration 1b - Marking wiring diagram and cautionary

BONDING LUGS AND COSSES DE MISE À LA MASSE.

Molded beside Unused connector for Bonding Lug on Spa Controller



Molded beside Bonding Lug on Spa Controller

USE COPPER CONDUCTOR ONLY.

CAUTION: CONNECT ONLY TO A CIRCUIT PROTECTED BY A CLASS A GROUND FAULT CIRCUIT INTERRUPTER.

A DISCONNECTING MEANS MUST BE INSTALLED WITHIN SIGHT FROM THE EQUIPMENT AND AT LEAST 5 FEET (1.52 M) FROM THE INSIDE WALLS OF THE POOL, SPA, OR HOT TUB.

EMPLOYER UNIQUEMENT DES CONDUCTEURS DE CUIVRE.

ATTENTION : CONNECTER UNIQUEMENT À UN CIRCUIT PROTÉGÉ PAR UN DISJONCTEUR DIFFÉRENTIEL DE CLASSE A.

BESOIN DE DÉBRANCHER SIGNIFIE QUE L'ÉQUIPEMENT EST SITUÉ AU SEIN DE LA VUE ET AU MOINS 5 pieds (1.52 m) À L'INTÉRIEUR DES MURS DE LA PISCINE.

ATTENTION : EMPLOYER DES FILS D'ALIMENTATION ADÉQUATS POUR 90 °C

Labeled beside Spa Controller

WARNIGN
PREVENT ELECTROCUTION
DISCONNECT ALL SUPPLY CONNECTIONS BEFORE SERVICING.

AVERTISSEMENT
PRÉVENIR L'ÉLECTROCUTION
DÉCONNECTEZ TOUS LES BRANCHEMENTS AVANT L'ENTRETIEN.
CET APPAREIL A 2 FOURNIR DES CONNEXIONS.

Labeled beside Air Blower

**WARNING**
PREVENT ELECTROCUTION
1.INSTALL AT LEAST 5 FEET FROM WATER USING NONMETALLIC PLUMBING.
2.INSTALL BLOWER AT LEAST 1 FOOT ABOVE MAXIMUM WATER LEVEL.


**avertissement**
Empêchez l'électrocution
1. Installez à au moins 5 pieds de l'eau en utilisant une plomberie non métallique.
2. Installer le ventilateur au moins 1 pied au-dessus du niveau d'eau MAXIMUM.


Note:

1. The label shall be marked beside Spa controller;
2. "WARNING" "AVERTISSEMENT" shall be marked and the lettering not be less than 9.5 mm in height;
3. The other lettering shall be marked and not be less than 3.2 mm in height.

7.0 Illustrations

Illustration 1c - Temporary Marking

WARNING! 
REDUCE THE RISK OF ELECTROCUTION
1. Never place an electric appliance within 5 feet of spa.
REDUCE THE RISK OF CHILD DROWING
1. Supervise children at all time.
2. Attach spa over after each use.
REDUCE THE RISK OF OVERHEATING
1. Check with a doctor before use if pregnant, diabetic, in poor health, or under medical care.
2. Exit immediately of uncomfortable, dizzy, or sleepy. Spa heat can cause haperthmia and unconsciousness.
3. Spa heat in conjunction with alcohol, drug, or medication can cause unconsciousness.
WHEN PREGNANT , soaking in hot water for long period can harm your fetus. Measure water temperature before entering.
1. Do not enter spa if water is hotter than 100°F (38°C).
2. Do not stay in spa for longer than 10 minutes.
This marking is to be removed only by the owner after Safety Sign is installed.



AVERTISSEMENT 
RÉDUIRE LE RISQUE D'ÉLECTROCUTION
1. Ne placez jamais un appareil électrique à moins de 5 pieds de spa.
RÉDUIRE LE RISQUE DE ENFANT DE LA NOYADE
1. Surveillez les enfants en tout temps.
2. Fixez spa plus après chaque utilisation.
RÉDUIRE LE RISQUE DE SURCHAUFFE
1. Consultez un médecin avant d'utiliser si vous êtes enceinte, diabétique, en mauvaise santé, ou en vertu de soins médicaux.
2. Sortir immédiatement du mal à l'aise, étourdi ou somnolent. Spa de chaleur peut provoquer une perte de conscience et haperthmia.
3. La chaleur Spa en collaboration avec l'alcool, de drogues ou de médicaments peuvent provoquer des évanouissements.
PENDANT LA GROSSESSE , trempage dans l'eau chaude pendant une longue période peut nuire à votre fœtus. Mesure température de l'eau avant d'entrer.
1. Ne pas entrer dans le spa si l'eau est plus chaude que 100 °F (38 °C).
2. Ne restez pas dans le spa de plus de 10 minutes.
Ce marquage doit être retiré que par le propriétaire après que le signal de sécurité est installé.

Remark:

1. The marking shall be on a removable adhesive-backed label or the equivalent. It is labeled on the inside surface of the tub and shall be readily visible after installation.
2. "WARNING" and equivalent French shall be marked and the lettering not be less than 9.5 mm in height;
3. "REDUCE THE RISK OF ELECTROCUTION", "REDUCE THE RISK OF CHILD DROWING", "REDUCE THE RISK OF OVERHEATING", "WHEN PREGNANT" and equivalent French, the letterings shall be marked and not be less than 4.8 mm in height; and
4. All other lettering not mention above shall be marked and the lettering not be less than 3.2 mm in height.

7.0 Illustrations

Illustration 1d - Permanent Caution Marking

WARNING 
REDUCE THE RISK OF ELECTROCUTION 1. Never place an electric appliance within 5 feet of spa.
REDUCE THE RISK OF CHILD DROWING 1. Supervise children at all time. 2. Attach spa cover after each use.
REDUCE THE RISK OF OVERHEATINGb 1. Check with a doctor before use if pregnant, diabetic, in poor health, or under medical care. 2. Exit immediately if uncomfortable, dizzy, or sleepy. Spa heat can cause hyperthermia and unconsciousness. 3. Spa heat in conjunction with alcohol, drug, or medication can cause unconsciousness.
WHEN PREGNANTb , soaking in hot water for long period can harm your fetus. Measure water temperature before entering. 1. Do not enter spa if water is hotter than 100°F (38°C). 2. Do not stay in spa for longer than 10 minutes.
AVERTISSEMENT 
RÉDUIRE LE RISQUE D'ÉLECTROCUTION 1. Ne placez jamais un appareil électrique à moins de 5 pieds de spa.
RÉDUIRE LE RISQUE DE ENFANT DE LA NOYADE 1. Surveillez les enfants en tout temps. 2. Fixez spa cover après chaque utilisation.
RÉDUIRE LE RISQUE DE SURCHAUFFE 1. Consultez un médecin avant d'utiliser si vous êtes enceinte, diabétique, en mauvaise santé, ou en vertu de soins médicaux. 2. Sortir immédiatement du spa si mal à l'aise, étourdi ou somnolent. Spa de chaleur peut provoquer une perte de conscience et hyperthermia. 3. La chaleur Spa en collaboration avec l'alcool, de drogues ou de médicaments peuvent provoquer des évanouissements.
PENDANT LA GROSSESSE , trempage dans l'eau chaude pendant une longue période peut nuire à votre fœtus. Mesure température de l'eau avant d'entrer. 1. Ne pas entrer dans le spa si l'eau est plus chaude que 100 °F (38 °C). 2. Ne restez pas dans le spa de plus de 10 minutes.

Remark:

1. The marking shall be on a removable adhesive-backed label or the equivalent. It is labeled on the inside surface of the tub and shall be readily visible after installation.
2. "WARNING" and equivalent French shall be marked and the lettering not be less than 9.5 mm in height;
3. "REDUCE THE RISK OF ELECTROCUTION", "REDUCE THE RISK OF CHILD DROWING", "REDUCE THE RISK OF OVERHEATING", "WHEN PREGNANT" and equivalent French, the letterings shall be marked and not be less than 4.8 mm in height; and
4. All other lettering not mention above shall be marked and the lettering not be less than 3.2 mm in height.

7.0 Illustrations

Illustration 1e - Cautionary Marking

WARNING

- 1) TEST THE GROUND FAULT CIRCUIT INTERRUPTER BEFORE EACH USE OF THE SPA & TOUJOURS VÉRIFIER L'EFFICACITÉ DU DISJONCTEUR DIFFÉRENTIEL AVANT D'UTILISER LE BAIN.
- 2) ADEQUATE DRAINAGE MUST BE PROVIDED IF THE EQUIPMENT IS TO BE INSTALLED IN A PIT & ATTENTION: LORSQUE L'APPAREILLAGE EST INSTALLÉ DANS UNE FOSSE, ON DOIT ASSURER UN DRAINAGE ADÉQUAT.
- 3) WATER TEMPERATURE IN EXCESS OF 38°C MAY BE INJURIOUS TO YOUR HEALTH & AVERTISSEMENT: DES TEMPERATURES DE L'EAU SUPÉRIEURES À 38°C PEUVENT PRESENTER UN DANGER POUR LA SANTÉ.
- 4) DISCONNECT THE ELECTRIC POWER BEFORE SERVICING & AVERTISSEMENT: DÉCONNECTER DU CIRCUIT D'ALIMENTATION ÉLECTRIQUE AVANT L'ENTRETIEN.
- 6) FOR INDOOR AND OUTDOOR USE & POUR UTILISATION INTÉRIEURE ET EXTÉRIEURE.
- 7) NOT FOR INSTALLATION ON A COMBUSTIBLE SURFACE. & PAS POUR L'INSTALLATION SUR UNE SURFACE COMBUSTIBLE.
- 8) **CAUTION:** CONNECT ONLY TO A CIRCUIT PROTECTED BY A CLASS A GROUND FAULT CIRCUIT INTERRUPTER. & **ATTENTION :** CONNECTER UNIQUEMENT À UN CIRCUIT PROTÉGÉ PAR UN DISJONCTEUR DIFFÉRENTIEL DE CLASSE A, or equivalent.
- 9) **WARNING:** RISK OF ACCIDENTAL DROWNING. EXTREME CAUTION MUST BE EXERCISED TO PREVENT UNAUTHORIZED ACCESS. ENSURE THAT CHILDREN CANNOT USE THIS PRODUCT UNLESS THEY ARE SUPERVISED AT ALL TIMES & **AVERTISSEMENT:** RISQUE DE NOYADE, PRENDRE TOUTES LES PRÉCAUTIONS NÉCESSAIRES POUR INTERDIRE L'ACCÈS AUX PERSONNES NON AUTORISÉES. S'ASSURER QUE LES ENFANTS NE PUISSENT PAS UTILISER CE PRODUIT SANS SURVEILLANCE CONSTANTE.
- 10) **WARNING:** RISK OF ACCIDENTAL DROWNING. THE USE OF ALCOHOLIC BEVERAGES OR DRUGS BEFORE OR DURING SPA USE MAY LEAD TO UNCONSCIOUSNESS WITH THE POSSIBILITY OF DROWNING & **AVERTISSEMENT:** RISQUÉ DE NOYADE. TOUTE PERSONNE QUI PREND DE L'ALCOOL AVANT D'UTILISER UNE CUVE DE RELAXATION OU PENDANT QU'ELLE S'Y TROUVE RISQUÉ L'ÉVANOUISSEMENT ET LA NOYADE.
- 11) **WARNING:** RISK OF ACCIDENTAL DROWNING DUE TO HYPERTHERMIA. CONSULT THE INSTRUCTIONS PROVIDED WITH THIS UNIT FOR A DESCRIPTION OF THE CAUSES, SYMPTOMS AND EFFECTS OF HYPERTHERMIA & **AVERTISSEMENT:** RISQUÉ DE NOYADE PAR SUITE D'HYPERTHERMIE. LIRE LA NOTICE QUI ACCOMPAGNE CET APPAREIL; ELLE DÉCRIT LES CAUSES, LES SYMPTÔMES ET LES EFFETS DE L'HYPERTHERMIE.
- 12) **WARNING:** RISK OF ELECTRIC SHOCK. DO NOT PERMIT ANY ELECTROIC APPLIANCE (SUCH AS A LIGHT, TELEPHONE, RADIO, OR TELEVISION) WITHIN 1.5M OR A SPA. & **AVERTISSEMENT:** DANGER D'ÉLECTROCUTION. NE PAS PLACER D'APPAREIL ÉLECTRIQUE (LUMINAIRE, TELEPHONE, RADIO, TÉLÉVISEUR, ETC) À MOINS DE 1.5M DE CETTE CUVE DE RELAXATION.

1. The marking shall be on a removable adhesive-backed label or the equivalent. It is labeled inside Spa and beside Spa Controller;
2. The word WARNING or AVERTISSEMENT shall be in contrasting colours in letters not less than 12.7 mm high;
3. The letters in the remainder of the marking shall be not less than 3.2 mm high.

7.0 Illustrations

Illustration 2 - Instruction Manual

IMPORTANT SAFETY INSTRUCTIONS


1. READ AND FOLLOW ALL INSTRUCTIONS.
2. WARNING – To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
3. A wire connector is provided on this unit to connect a minimum 8 AWG (8.4 mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the unit.
4. DANGER – Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this spa unless they are supervised at all times.
5. DANGER – Risk of Injury. The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.
6. DANGER – Risk of Electric Shock. Install at least 5 feet (1.5 m) from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 8 AWG (8.4 mm²) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.
7. DANGER – Risk of Electric Shock. Do not permit any electric appliance, such as a light, telephone, radio, or television, within 5 feet (1.5 m) of a spa.
8. WARNING – To reduce the risk of injury:
 - a) The water in a spa should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 40°C are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.
 - b) Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 38°C (100°F).
 - c) Before entering a spa, the user should measure the water temperature since the tolerance of water temperature-regulating devices varies.
 - d) The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
 - e) Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa.
 - f) Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

7.0 Illustrations

Illustration 2a - Instruction Manual

WARNING – Risk of Electric Shock. Install at least 5 feet (1.5 m) from tub water using nonmetallic plumbing. Install blower no less than 1 foot (305 mm) above the maximum water level to prevent water from contacting electrical equipment. Install in accordance with the installation instructions.

SAVE THESE INSTRUCTIONS

 WARNING ^a
REDUCE THE RISK OF ELECTROCUTION ^b 1. Never place an electric appliance within 5 feet of spa. ^c
REDUCE THE RISK OF CHILD DROWNING ^b 1. Supervise children at all times. ^c 2. Attach spa cover after each use. ^c
REDUCE THE RISK OF OVERHEATING ^b 1. Check with a doctor before use if pregnant, diabetic, in poor health, or under medical care. ^c 2. Exit immediately if uncomfortable, dizzy, or sleepy. Spa heat can cause hyperthermia and unconsciousness. ^c 3. Spa heat in conjunction with alcohol, drugs, or medication can cause unconsciousness. ^c
WHEN PREGNANT ^b , soaking in hot water for long periods can harm your fetus. Measure water temperature before entering. ^c 1. Do not enter spa if water is hotter than 100° F (38° C). ^c 2. Do not stay in spa for longer than 10 minutes. ^c

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

and

LA CONSOMMATION D'ALCOOL OU DE DROGUE AUGMENTE CONSIDÉRABLEMENT LES RISQUES D'HYPERTHERMIE MORTELLE DANS UNE CUVE DE RELAXATION.

CAUTION: CONNECT ONLY TO A CIRCUIT PROTECTED BY A CLASS A GROUND FAULT CIRCUIT INTERRUPTER.

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 failure to perceive heat; failure to recognize the need to exit spa or hot tub; unawareness of impending hazard; fetal damage in pregnant women; physical inability to exit the spa or hot tub; and unconsciousness resulting in the danger of drowning.

7.0 Illustrations

Illustration 2b - Instruction Manual

WARNING: CHILDREN SHOULD NOT USE SPAS OR HOT TUBS WITHOUT ADULT SUPERVISION

and

AVERTISSEMENT: NE PAS LAISSER LES ENFANTS UTILISER UNE CUVE DE RELAXATION SANS SURVEILLANCE

WARNING: DO NOT USE SPAS OR HOT TUBS UNLESS ALL SUCTION GUARDS ARE INSTALLED TO PREVENT BODY AND HAIR ENTRAPMENT

and

AVERTISSEMENT: POUR ÉVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS PUISSENT ÊTRE ASPIRÉS, NE PAS UTILISER UNE CUVE DE RELAXATION SI LES GRILLES DE PRISE D'ASPIRATION NE SONT PAS TOUTES EN PLACE

WARNING: PEOPLE USING MEDICATIONS AND/OR HAVING AN ADVERSE MEDICAL HISTORY SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB

and

AVERTISSEMENT: LES PERSONNES QUI PRENNENT DES MÉDICAMENTS ET (OU) ONT DES PROBLÈMES DE SANTÉ DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION

WARNING: PEOPLE WITH INFECTIOUS DISEASES SHOULD NOT USE A SPA OR HOT TUB

and

AVERTISSEMENT: LES PERSONNES ATTEINTES DE MALADIES INFECTIEUSES NE DEVRAIENT PAS UTILISER UNE CUVE DE RELAXATION

WARNING: TO AVOID INJURY, EXERCISE CARE WHEN ENTERING OR EXITING THE SPA OR HOT TUB

and

AVERTISSEMENT: POUR ÉVITER DES BLESSURES, USER DE PRUDENCE EN ENTRANT DANS UNE CUVE DE RELAXATION ET EN SORTANT

WARNING: DO NOT USE DRUGS OR ALCOHOL BEFORE OR DURING THE USE OF A SPA OR HOT TUB TO AVOID UNCONSCIOUSNESS AND POSSIBLE DROWNING

and

AVERTISSEMENT: POUR ÉVITER L'ÉVANOUISSEMENT ET LA NOYADE ÉVENTUELLE, NE PRENDRE NI DROGUE NI ALCOOL AVANT D'UTILISER UNE CUVE DE RELAXATION NI QUAND ON S'Y TROUVE

WARNING: PREGNANT OR POSSIBLY PREGNANT WOMEN SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB

and

AVERTISSEMENT: LES FEMMES ENCEINTES, QUE LEUR GROSSESSE SOIT CONFIRMÉE OU NON, DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION

7.0 Illustrations

Illustration 2c - Instruction Manual

WARNING: WATER TEMPERATURE IN EXCESS OF 38 °C CAN BE INJURIOUS TO YOUR HEALTH

and

AVERTISSEMENT: IL PEUT ÊTRE DANGEREUX POUR LA SANTÉ DE SE PLONGER DANS DE L'EAU À PLUS DE 38 °C

WARNING: BEFORE ENTERING THE SPA OR HOT TUB, MEASURE THE WATER TEMPERATURE WITH AN ACCURATE THERMOMETER

and

AVERTISSEMENT: AVANT D'UTILISER UNE CUVE DE RELAXATION, MESURER LA TEMPÉRATURE DE L'EAU À L'AIDE D'UN THERMOMÈTRE PRÉCIS

WARNING: DO NOT USE A SPA OR HOT TUB IMMEDIATELY FOLLOWING STRENUOUS EXERCISE

and

AVERTISSEMENT: NE PAS UTILISER UNE CUVE DE RELAXATION IMMÉDIATEMENT APRÈS UN EXERCICE FATIGANT

WARNING: PROLONGED IMMERSION IN A SPA OR HOT TUB CAN BE INJURIOUS TO YOUR HEALTH

and

AVERTISSEMENT: L'UTILISATION PROLONGÉE D'UNE CUVE DE RELAXATION PEUT ÊTRE DANGEREUSE POUR LA SANTÉ

WARNING: DO NOT PERMIT ELECTRIC APPLIANCES (SUCH AS A LIGHT, TELEPHONE, RADIO, OR TELEVISION) WITHIN 1.5 M OF THIS SPA OR HOT TUB

and

AVERTISSEMENT: NE PAS PLACER D'APPAREIL ÉLECTRIQUE (LUMINAIRE, TÉLÉPHONE, RADIO, TÉLÉVISEUR, ETC) À MOINS DE 1.5 M DE CETTE CUVE DE RELAXATION

CAUTION: MAINTAIN WATER CHEMISTRY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

and

ATTENTION: LA TENEUR DE L'EAU EN MATIÈRES DISSOUTES DOIT ÊTRE CONFORME AUX DIRECTIVES DU FABRICANT.

IMPORTANT SAFETY INSTRUCTIONS

When using this electrical equipment, basic safety precautions should always be followed, including the following:

a) READ AND FOLLOW ALL INSTRUCTIONS.

b) A green coloured terminal or a terminal marked G, GR, Ground, Grounding, or the symbol* is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment. * IEC 60417, Symbol 5019.

c) At least two lugs marked "BONDING LUGS" are provided on the external surface or on the inside of the supply terminal box or compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the hot tub or spa to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.

d) All field-installed metal components such as rails, ladders, drains, or other similar hardware within 3 m of the spa or hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.

e) SAVE THESE INSTRUCTIONS.

7.0 Illustrations

Illustration 2d - Instruction Manual

Owner's Manual

INTRODUCTION

- Welcome to your new spa. With the correct preparation and care, your new spa will provide you with many years of fun and relaxation. Please find the "USER MANUAL", "CONTROL SYSTEM MANUAL" and "Quick Start Guide" in the product attachment.
- This manual has been developed to provide you with the information that you need regarding the preparation, installation, care and operation of your new spa. Please take the time to carefully read the entire manual to ensure that your spa preparations are carried out correctly. Also make sure that you familiarise yourself with the important safety instructions before using your spa.
- If you have any question or doubt on the operation or maintenance of this product, please contact your local dealer.

MAIN FUNCTION AND PRODUCT CHARACTERISTICS:

- Hydrotherapy function:** The product comes with special hydrotherapy seats which are designed according to ergonomic engineering, different kinds of jets in the seat to help to achieve body therapy. Adjust the massage pressure through adjusting the massage, water diverter and air regulator.
- Air blower therapy function:** Turn on the air blower, special designed air jets will blow a lots of air bubble to provide you bubble therapy and fun.
- Heating function:** SPA comes with heater, once the user set the temperature, the heater will start to maintain the temperature to the set temperature and ensure the spa is available for all season.
- Filter and circulation function:** SPA comes with Filter which can clean the impurities inside efficiently, meanwhile, the system will run the Filter Cycle programming automatically, to kill the bacteria via the ozone released by the ozone generator.
- Aromatherapy function:** SPA comes with Aromatherapy canister, put essence into it, the perfume mix with the water through special plumbing to make you feel comfortable.
- Lighting:** SPA comes with waterproof underwater light, to switch the colour and mode via the control panel, the underwater light not only provides the lighting function but also make you feel romantic.
- Multimedia:** You may mount the optional DVD/TV/IPOD to the SPA, allow you enjoy the video and audio while exercising in the swim SPA or massaging in the SPA.
- Swimming (swim SPA):** Running the swim jet to gain strong surf, you can enjoy the swimming with stainless steel handrail without a big room.
- Surf sport (swim SPA):** Adjust the jetting direction of swim jet to create a vortex, enjoy surf in your swim spa.
- Exercising (swim SPA):** With the help of exercise band and swimming harness, you are able to do all kinds of exercise in swim spa.

Important declaration: All the functions mentioned above are general introduction to our Spas products, the SPA you purchase may be difference, please check it clearly before purchasing. The manufacturer reserves the right to modify and improve the products when necessary without prior notice and without entering into any obligation.

1

Owner's Manual

IMPORTANT INSTRUCTIONS

It is essential to familiarize yourself with general spa pool safety and water treatment procedures. Please make sure to familiarize below contents:

- Drainage requirement:** Ensure that the spa is not in a low or floodable position; as this could cause electrical equipment shortage or be dangerous to spa users.
- Risk of electric shock:** As with all electrical appliances there is a risk of electrocution. The engine room within the cabinet, houses the control unit that operates the spa. The door enclosing the unit should always remain shut. If water happens to enter the engine room, turn the spa off at the power outlet and make sure all the components are dry before attempting to power the spa back up.
- Temperature:** Keep your spa water temperature no higher than 40°C. Higher water temperatures can cause strain on the cardiovascular system. If the water temperature is higher than 40°C, get out of the spa and contact the dealer as soon as possible. It is recommended that the water temperature be no higher than body temperature i.e. 37.5°C.
- Medical conditions**
 - People with diabetes, high blood pressure, heart disease or other cardiovascular conditions should consult their physician before using a SPA.
 - To reduce the risk of contaminating spa water and minimize health risks, shower with soap and water prior to using the spa.
 - People with open sores or any type of infection should not use the spa.
 - Hot water is an ideal environment for spreading infection, especially if sanitizer levels are not properly maintained.
 - Women who are pregnant should consult their physician before using a spa.
- Soak and cool time:** Limit spa use to no more than 15-20 minutes at a time. Some spa pools are equipped with a cooling seat. When you feel you are getting too hot, sit on the cooling seat and allow your body to cool. When you feel comfortable you may submerge yourself back into the spa pool. Sitting in the spa with your head above the water level will dramatically decrease the time it takes to cool down. Hyperthermia may be fatal. Do not expose your body to prolonged exposure in water above normal body temperature.
- Alcohol use and medication:** The consumption of alcohol in and around the spa pool is a hazardous practice. Never use glass drinking vessels near the spa pool. Alcohol can cause drowsiness and lead to drowning. Any person taking medication should consult their physician before entering the spa pool.
- Child safety:** Children should not be permitted to use the spa without adult supervision.
- Preventing slips:** Always take care when entering and exiting a spa due to slippery, uneven surfaces. Handrails and non-slip surfaces will help to minimize the risk of slipping and falling. In some cases steps may be needed to make entering the spa easier.

7.0 Illustrations

Illustration 2e - Instruction Manual

Owner's Manual

- **Electrical appliances:** Never have any electrical devices within 2 meters of the spa.
- **Weather conditions:** Do not operate or soak in a SPA during severe weather conditions i.e. thunderstorms, cyclones or electrical storms.
- **Ventilation:** If the SPA pool is not sufficiently ventilated some people may experience throat irritations. Make sure that the SPA pool is properly ventilated if you are installing it in an enclosed area.
- **Chemicals:** SPA chemicals are necessary to control bacteria, prevent infection and maximize the life of your SPA and its equipment. However, in concentrated form these chemicals, like other household chemicals, can be hazardous. Always handle and use them with care. Refer to the product's label for safety and handling information. A more in-depth explanation on how to use chemicals in your SPA can be found in the Chemical Management section.

SPA INSTALLATION

Please always find a professional to install your SPA. The manufacturer shall not be responsible for any damage caused by an improper installation or an installation performed by non-qualified personnel.

- **Positioning and location of the SPA**
- Your spa needs to be positioned so that the spa's equipment is easily accessible. The equipment is located (in most cases) at the front of the SPA and will need to be accessible for service and power connection. It is recommended that you have access to all sides allowing at least 1/2 a metre access around all 4 sides of your SPA for future access if required. It will be the owner's responsibility to make sure this is completed prior to the service being carried out. All portable SPA equipment must be ventilated. Do not obstruct any vents in the cabinet.
- It is recommended to place the SPA away from trees, as falling leaves may block the filter.



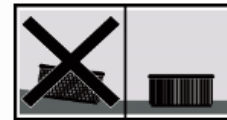
Important note: DO NOT leave your SPA in direct sunlight for extended periods of time. Doing so may void your warranty. The SPA has closed cell insulation over the shell and pipe work. If left exposed to direct sunlight the surface temperature can build up to 200 °C causing damage to your SPA. It is suggested that you not only have the hard cover over your SPA while not in use but also have the SPA in an area which is sheltered from extreme and harsh weather conditions. Leaving the SPA uncovered and exposed may void your warranty on your SPA and its accessories.

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Owner's Manual

Location requirement

- Before installing, it is better to ask a professional to check the spa position.
- Avoid placing the SPA where water could flood into the electrical equipment compartment, and also protect the unit from direct contact with very damp areas.
- Position the SPA horizontally, placing the whole base of the unit on a smooth, flat and level surface, capable of supporting the weight when used (full of water, plus the weight of the bathers, required 1000KG weight capability).
- The SPA cannot be placed on a curved, soft, sandy surface or blocks.



IMPORTANT ATTENTION

- **Electric installation**
- The electrical supply to your new spa will require a dedicated circuit with no other appliances or sockets sharing the power. Electrical burn out due to incorrect amperage WILL NOT be covered by warranty. Ask for qualified electrician for electrical connection.
- Ensure your new SPA is safely earthing. Ensure the main power supply has installed high sensitive leakage protectors. Recommend 30mA leakage protectors.
- Please select suitable wiring:

Rate power(KW)	2.1	2.5	2.8	3.2	3.5	4.4	5.3	6.2	7.0	7.9	8.8
Product distance	Cable core area(square mm)										
6-11 meters	2.5	2.5	2.5	2.5	4	4	6	10	10	10	10
11-15 meters	2.5	2.5	4	4	4	6	6	10	10	10	10
15-20 meters	4	4	4	6	6	6	10	10	10	16	16

- Please refer the control system instruction manual before electrical installation.

SPA MAINTENANCE

Owning a spa is fun, relaxing and therapeutic, but more important we must look after our investment to keep it healthy and economical, thus avoiding unnecessary premature repair costs. Detailed below is a simple step-by-step procedure to follow.

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7.0 Illustrations

Illustration 2f - Instruction Manual

Owner's Manual

Filling your SPA

- Before filling your spa, please check and tighten all the live connectors, they may go loose during transportation.
- Please check and make sure all the check valves are all in the open position.
- Check that the drainage valve is shut off.
- Check that all jets are in the open position. Turn clockwise to turn your jets on.
- Fill your SPA with water. Fill the water through the filter in order to prevent air block in the pumps. Fill the water till reach the required water level.

The required water level



Note: To avoid any damage to the components, DO NOT fill hot water over over 40°C into your SPA.

Draining your SPA

- If you use your SPA say once or twice a week, the need to drain your sap will be less frequent than a SPA owner who uses their SPA three or more times a week. Therefore, it would be recommended that a SPA be drained at least every 3 months.
- Your drainage valve is positioned at the front of the bottom base. Details for drainage are as follows:



1. Take off the cover of the drainage valve by anti-clockwise



2. Connect your hose with the drainage valve in which diameter is 3/4" or 19.04 mm



3. Pull out and screw until stop



4. Turn the drainage valve anti-clockwise and your SPA will begin draining

Note: Ensure the power is shut off before draining. Equipment damage caused by dry running will not be covered under warranty.

SPA control panel instruction

The spa control panel instruction please refer to the User's Manual of the control system and the Quick Operation Guidance.

Jet instruction

Jets are the main parts in which massage come to affect. You can adjust the water flow through rotating the jet face.

- Turn the jet cover clockwise about 1/4, the jets are turned on.
- Turn the jet cover anti-clockwise about 1/4, the jets are turned off.



Note: Some jets and the air jets are unadjustable. Don't rotate these jets with force. It may cause damages to the jets.

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Owner's Manual

Air controls instruction

Air controls affect the pressure of your jets by adding air. You may have more than one air control on your spa, each of which will be associated to a certain group of jets. By opening an air control when the pump is on air will be drawn into the water flow.

- When the air control is turned clockwise, it will decrease the power of the massage jets.
- When it is turned anti-clockwise, it will increase the power of the massage jets.

Note: For better heating efficiency, please turn the air controls off. The air blower may cooling down the spa water temperature.



Water diverter instruction

The water diverter is the parts which adjust the massage power. Rotating the water diverter, you will adjust the massage power of different seats.



Aromatherapy canister instruction (Option)

- The Aromatherapy canister is the part that brings aromatherapy. The aromatherapy canister is composed by aromatherapy canister cover, canister and canister holder. Turn the canister anti-clockwise to open and increase the aromatherapy. Turn the canister clockwise to decrease the aromatherapy.
- Replace the lasting scents essential oil in 2 or 3 months time accordingly. Turn the aromatherapy cover anti-clockwise, turn the canister anti-clockwise. Check if it is any lasting scents essential oil left. Replace it when it is finished. You can contact the local dealer to buy a new one for replacement.



Turn aromatherapy canister knob, open or close the aromatherapy canister



Turn the canister cover anti-clockwise to open



Turn the canister anti-clockwise to open

Note: For better and longer aromatherapy, remember to turn the aromatherapy canister off when the spa is not in use.

The water flow control is the special parts to control the water flow of the options, like waterfall and fountain. Rotating the water flow control will turn on, turn off and adjust the water flow.

Water flow control instruction (Option)

Note: For better heating efficiency, turn the water flow controls off when the spa is not in use.



Multimedia system instruction (Option)

The spa may obligate to connect with DVD player, CD player, Ipod ect. Pop up speakers and multimedia system. Please check before using which multimedia system you have for your spa.

Note: Pull off the cover of the DVD player after using. For details, please refer to the user's manual of DVD player.

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7.0 Illustrations

Illustration 2g - Instruction Manual

Owner's Manual

SPA WATER MANAGEMENT & MAINTENANCE

- Please note that these instructions are just a guide to maintain the spa's water quality. Before any actions, please consult your local SPA specialist for proper amount of sanitizer use, and take proper action depending on the capacity of the SPA.
- You should never use pool grade chemicals in your spa. Any damage to equipment caused by using pool grade chemicals or other improper chemicals will not be covered under warranty.
- Please have the water tested professionally at least once a month, and it's recommended that the water is weekly tested by the end user. When adding chemicals to the spa, please leave it to mix in for 20-30 minutes. Test the water after the chemicals are sufficiently mixed into the water.

■ The effect and adjustment of pH

- Low pH (below 7.2) causes sanitizers to dissipate more rapidly, increases corrosion of surfaces and equipment, and may make water irritating to spa users. If pH is high (above 7.6) chlorinating sanitizers are less effective, surfaces and equipment can scale, water may cloud and shorter filters runs may occur.

ATTENTION! The pH level measures the acidity and alkalinity: Values above 7 are alkali and below 7, are acid. A PH index of between 7.2 and 7.6 is recommended.

WARNING: Please make sure that the correct PH level is maintained, any damage caused by an inadequate PH level is not covered by your Spa guarantee.

■ PH adjustment

- Check the pH of the Spa water daily using the pH tester. (not supplied)
- If the pH is above the above-mentioned indexes, do not enter the SPA temporarily. Wait for two hours and re-do the pH test.
- If the pH is below the above-mentioned indexes, let the pumps prime. Wait for two hours and re-do the pH test.
- If the proper pH level can not be maintained by the above instructions, please add appropriate amount of acidity-alkalinity balance reagent into the water, uncover the spa cover, leave it mix in for 20 minutes, then re-do the pH test;

■ Disinfection of the water

- Disinfection of the water is of utmost importance in order to destroy algae, bacteria and organisms that could develop in the water. However, excessive disinfection could cause skin and eye irritation.
- Bromide tablets: are a suitable disinfectant for the Spa water. This product is placed in the pre-filter and gradually dissolves. Check the residual bromide level daily using the Br analyser set. The recommended level of residual bromide is between 2.2 and 3.3 ppm.
- Disinfection with OZONE: Ozone, O₃, is an oxidizing chemical compound, which is very effective for disinfecting water. The main advantage of ozone is that it leaves no chemical trace and is odorless. Generally, the spa is equipped with 1~2 ozone generator, produce ozone ions from oxygen in the atmosphere. This is an automatic process and the resulting product is injected through the jets of the water. Please refer to the part "controller's function instruction". It is recommended that the ozone Disinfection is operated twice a day, and the duration is maintained within 1~2 hours, thus the ideal disinfection effect can be obtained and the life-span of the ozone generator can extended.

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Owner's Manual

Filter remove and install

Remove the cartridge and filter

- Open the cartridge cover on up side;
- Take off the filter cover, and turn counter-clockwise to take off the paper filter.
- Go opposite to install the cartridge filter.



Remove the double front access filters

- Pull up the front panel, pull the screener transverse out.
- Go counter-clockwise to remove the paper filter.
- Go opposite to install the double front access filters.



Remove big size front access stopper filter

- Take off the top cover.
- Go counter-clockwise to remove the paper filter.
- Go opposite to install the front access stopper filter.



■ When your SPA is not in use

If you are going away for a period longer than 2 months, it is recommended that you turn your spa off and empty it. It is important to remember to leave the cover on even while empty to protect the shell. If you are going away for a few days or weeks, do not turn your spa off completely. Turn the temperature down to 15 degree, so that the filtration cycles are still functioning but the spa doesn't heat.

- 3-5 days
Adjust the PH and water treating (for details please check the water maintenance) cover the spa cover, adjust the PH and water treating when you reuse the spa;
- 5-14 days
Setting the lowest temperature or sleep pattern. Adjust the PH and water treating (for details please check the water maintenance) cover the spa cover, adjust the PH and water treating when you reuse the spa;
- More than 15 days
Turn off the power, open the drain valve and drain the spa clean, take off the filter, keep the spa dry and cover the spa cover.

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7.0 Illustrations

Illustration 2h - Instruction Manual

Owner's Manual

TROUBLES SHOOTING

Description Of Trouble	Analysis	Solution
The error message appear on the LCD display, the spa stop working	<ul style="list-style-type: none"> Control system will have digital diagnostics function which will stop working if have something wrong in spa, and it will restart when the troubleshooting solved. 	<ul style="list-style-type: none"> Please check the error message in the control system manual, and then contact the local dealer to do the maintaince.
SPA can't start in any model	<ul style="list-style-type: none"> Power off Control panel is locked Electric control failure(display showed error message) 	<ul style="list-style-type: none"> Check the power switch or contactor if turned on Check whether the control panel lock Check the fault code in control manual, then contact dealer do the maintenance
SPA open automatically	<ul style="list-style-type: none"> Filtration feature is running Heating function is running Antifreeze feature is running 	<ul style="list-style-type: none"> Just is the automatically function for the system, without maintenance, the system will automatically stop running when the function is over.
The water pump turn off automatically when using the SPA	<ul style="list-style-type: none"> The pump running time is more than the system default maximum running time The pump motor is overheat protection 	<ul style="list-style-type: none"> Repress pump button to restart the pump Stop running pump more than 1 hour until cool and then start the pump
The spa turn on after fill full the water, then the water pumps are also on, but no water come out from the jets	<ul style="list-style-type: none"> The jets are closed Water pump suck the air 	<ul style="list-style-type: none"> Check whether the jets is closed, if not, open it Repeated several times to start water pumps, if still not working, open the union on the water pump to let the air release, and then screw tightly. Meanwhile please fill the watet through from filter so that could prevent the inside of water pump suck air
SPA slow heating	<ul style="list-style-type: none"> Set the temperature lower Filter cartridge dirty There no cover cover on the SPA make the heat loss The jet which connect to the circulating pump is closed Heater broken 	<ul style="list-style-type: none"> Re-set the temperature Cleaning or replacement of filter Put the cover on spa Open the jets Contact the local dealer to do the maintenance
The massage power of the jets is small	<ul style="list-style-type: none"> Jets is not fully opened Jets is clogged Air valve turn off Water valve closed make the jets wont come our the water Water pump control valve is not fully opened 	<ul style="list-style-type: none"> Open the jets Let the cover of jets counter-clockwise rotation in the end and then forced North Korea Counterclockwise rotation, can spiral jets out, then check whether there are foreign bodies inside the jets Open the air valve switch Rotary valves, regulating the water jets Check water pump's valve if fully opened
The jet spraying water sometimes big, sometimes small	<ul style="list-style-type: none"> Suctions or filter are clogged Water pump control valve is not fully opened 	<ul style="list-style-type: none"> Check whether if the suction or filter have foreign bodies inside and remove it Check water pump 's valve if both are fully opened

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Owner's Manual

■ The application of other special chemical products

- Besides the pH adjustment and the above-mentioned disinfection ways, there are some cleaning products which can be used in spa water;
- ANTI-CALCAREOUS: it can be used to prevent/reduce precipitation of calcium salts (scale), especially in hard water areas. Use it once a week and whenever the water is renewed.
 - SPAALGAECIDE: Prevent algae from growing in the water, use it once a week and whenever the water is renewed.
 - ANTIFOAM: Prevent precipitation of calcium salts (scale), use it once a week and whenever the water is renewed.

WARNING!

Add the exact amounts to the water, as specified. Do not mix products, to avoid possible reactions.
Do not smoke while handling these products - they may be flammable.
Do not add chemical products to the water if there is someone in the spa.
Keep containers tightly closed in dry, well-ventilated places, and keep these products away from children.
Do not inhale chemical products, and take care not to let them come into contact with the eyes, nose or mouth. Wash hands after use.
Follow the emergency instructions on the product label in the event of an accident or ingestion.

SPA CLEAN AND MAINTENANCE

Owning a spa is fun, relaxing and therapeutic, but more importantly we must look after our investment to keep it healthy and economical, thus avoiding unnecessary premature repair costs. Detailed below is a simple step by step procedure to follow.

■ SPA surface clean and maintenance

The spa surface is made of high-gloss acrylic, we must keep it clean, we suggest that clean the spa outside surface once a week and clean the whole spa after drain. Details steps as below:

- Clean the dirt with wet towel, we can use the neutral detergent and soft towel, can not use the detergent which with ketone or chlorine water.
- If the surface have some light scratch, please polish it with 2000# sand paper and make up it with toothpaste, re-polish it with soft towel.
- Please do not clean the spa surface with any chemical solution/ kernel or crude tools; do not scratch the spa surface with hard material or knife.
- Please do not clean the spa surface with nail polish, nail polish remover, dry detergent, acetone, paint remover ect. It will damage the surface.
- No cigarette end or over 70°C heat source touch your SPA.

----- R -----

7.0 Illustrations

Illustration 2i - Instruction Manual

Owner's Manual

Control panel maintenance

- Please do not touch the control panel with the hard things to avoid scratch.
- Please avoid the direct sunshine on the control panel.
- Please keep the control panel dryness when the spa is not in use.

Pillow maintenance

- Clean the pillow with neutral detergent;
- The exceed chloride detergent and ozone will made the pillow fading, please take off the pillow after use the SPA, please make it carefully, it is not in guaranty.

SPA cover maintenance

- Clean the cover with soap water, please make sure do not let the soap water go inside the spa
- Please do not catch or pull the link in the middle of the cover, it is easy to break;
- Please do not seating, lie and jump on the cover, damage it may cause is not covered under guaranty.

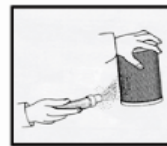
Note: Please cover the spa cover after use or clean. Leaving the spa uncovered and exposed may void your warranty on your spa and its accessories.

Filter maintenance

You should clean your filters regularly. Once a week you should remove your filters and hose any debris out of them with a high pressure hose. Once a month you should soak your filters in a cartridge filter cleaning solution and then hose off with a high pressure hose.

Filter cleaning

- Turn off the power;
- Remove the cartridge, please read the filter remove instruction before doing so.
- Take off with filter from the cartridge on counter-clockwise.
- Clean the cartridge with water until not any leftover.
- Spray the filter with water, from up to down At an angle of 45° (Attached the photos in right side).
- Install the filter and cartridge after clean.
- Turn on the power.



Note: Please contact your supplier to change the filter after continue use 3 months.

Warning: When you remove your filters, ALWAYS ensure that the power to your spa is off before doing so. If you leave your power on and anything is drawn into your pump or heater, causing either to fail the fault will not be covered under warranty.

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Owner's Manual

THE LIMITED WARRANTY AND AFTER SALES SERVICE

Warranty performance and coverage

1. Our company provide is limited warranty on the product quality responsibility. The limited warranties do not include any other expense may involved.
2. Under the warranty, due to fault the quality of the product itself, please let the customers fill the (warranty card) and then contact the local dealer to do the maintenance or replace the part.
3. The distributor or the end user shall provide the necessary information including serial No., model No., Failure report and pictures to the factory in details when claim a warranty.

The following items are specifically excluded from any warranty coverage:

- a. Any damages resulting from improper use or maintenance not according to user's manual.
- b. Damaged caused by any anthropic factor.
- c. Any amendment to the product without manufactory's authorization.
- d. Damage or discoloration to the shell surface due to corrosive or improper cleaning agent.
- e. Damage resulting from improper transportation or storage.
- f. Damage due to acts of God was not covered under warranty.
- g. Natural color fading.

Maintenance policy

1. Our company provides the product with lifetime service. After warranty limited period ends, we only charge the basic service fee when need further maintenance or service. The charge will be based on the materials and the transportation cost.
2. Consumed parts such as filter cartridges, filter lid, SPA pillows and cover locks, are not included in this warranty, unless the parts itself has defects in materials and workmanship problem.

3. Our company reserves the right to revise of the above conditions and terms
4. All the replaced parts belong to the property of our company.

Service promise:

Response to any complaints within two working days. And visit the customers regularly for feedbacks, to ensure continually enhance the customers satisfaction.

Limited warranty:

Item No.	Warranty Item	Warranty Period	Content	Approach	Remark
1	Product structure	5 years	Shell crack	Provide repair kits or replaceable parts.	
			Structural frame failure	Provide a free structure.	
2	Shell surface	2 years	Product defects itself problems such as blisters, peeling or delaminating	Provide repair kits or a new shell to replace.	
3	Jets	2 years	Jets defect or failure	Provide replaceable jets free of charge.	
4	Control system	2 years	System failure irreversible	Provide replaceable control system free of charge.	
5	Other parts and fittings	2 years	Damage, broken-down or failure	provide free parts	Filter is not covered

Note: The limited warranty is from the manufacturers production date of substantial completion.

Special declaration

Production manufacturer reserved the right of final explanation.

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7.0 Illustrations

Illustration 3 - Model Similarity

Model	Dimension (Length × Width × Height mm)	Balboa control	Heating circulating pump	Water jet pump 56WUA2 00-1	Water jet pump 56WUA3 00-1	Water jet pump 56WUA3 00-II	Quantity of suction fittings	Quantity of Skimmer
M-770D	2300×2300×900	BP2000G1	WTC50M*1	0	2	0	3	2
M-780D	2300×2300×900	BP2000G1	WTC50M*1	0	2	0	3	2
M-342D	2130×1650×930	BP100G2	WTC50M*1	0	2	0	3	1
M-374D	2000×2000×930	BP100G2	WTC50M*1	2	0	0	3	1
E-133S	1900×1900×800	BP100G1	WTC50M*1	0	1	0	3	1
E-152S	1900×1900×800	BP100G1	WTC50M*1	0	1	0	3	1
E-174S	1900×1900×800	BP100G1	WTC50M*1	0	1	0	3	1
E-162S	1900×1400×800	BP100G1	-	0	0	1	1	1
M-353D	2180×2180×930	BP2000G1	WTC50M*1	0	2	0	3	1
M-520D	2180×2180×950	BP2000G1	WTC50M*1	0	2	0	4	2
E-340D	2180×2180×850	BP2000G1	WTC50M*1	0	2	0	4	2
P-580T	2300×2350×900	BP2000G1	WTC50M*1	2	1	0	5	2
P-920T	2180×2400×900	BP2000G1	WTC50M*1	1	2	0	5	3
SW-35A3	3500×2250×1070	BP2000G1	WCA100*1	0	3	0	5	2
SW-50B4	5000×2250×1450	BP2000G1	WCA100*1	3	0	0	8	2
SW-52A3	5200×2250×1370	BP2000G1	-	0	3	1	5	2
SW-59A3	5900×2250×1320	BP2000G1	-	1	0	1	3	2
		BP2000G1	-	0	2	1	6	2
SW-70A2-A	7000×2250×1500	BP2000G1	WCA100*1	3	0	0	6	2
SW-70A2-B	7000×2250×1500	BP2000G1	-	3	0	1	8	2
SW-72A2	7250*2250*1520	BP2000G1	WCA100*1	3	2	0	7	2
		BP2000G1	WCA100*1	4	2	0	10	2
SW-71A2	7130*2250*1520	BP100G1	WCA50*1	0	1	0	2	1
		BP2000G1	WCA100*1	4	2	0	10	2

Additional:

1. Except models P-580T, P-920T, SW-35A3, other models provide a Ozone generator type FQT-124.
2. Models M-770D, M-780D, P-920T, SW-35A3, SW-59A3 provide an Air Pump type APW4001*1; Model P-580T provide an Air Pump type APW9001*1; Model SW-72A2 provide an Air Pump type APW7001*1.

8.0 Test Summary			
Evaluation Period	12-Oct-2023 ~ 25-Jan-2024		Project No. 231012005GZU
Sample Rec. Date	12-Oct-2023	Condition Prototype	Sample ID. 231012005-001, 002
Test Location	Intertek Testing Services Shenzhen Limited Guangzhou Branch (Address: Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China)		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	UL 1563:2009 Ed.6+R:10Sep20 20/ Clause	(R2017) [CSA C22.2#218.1:2 013 Ed.2+E1;E2]/ Clause	UL 746C:2018 Ed.7+R:17Mar202 3/ Clause
Suction Openings	38	-	-
Available Current Test	44	6.7	-
Insulation Resistance Test	45	-	-
Starting Current Test	46	-	-
Power Input Test	47	6.2	-
Leakage Current Test or Insulation Resistance Test	48	-	-
Dielectric Voltage-Withstand Test	49	6.8 & 6.9	-
Temperature Test	50	6.3 & 6.5	-
Water Temperature Test	51	-	-
Abnormal Water Temperature Tests	52	-	-
Water Exposure Test	54	6.6	-
Test for Resistance to Impact	56	6.9	56
Ozone Offgas Test	57	-	-
Abnormal Operation Tests	58	6.6	-
Flow Rate Test	59	6.10	-
Structural Integrity Tests	62	6.11	-
Leakage Current	-	6.4	-
Grounding and Bonding	-	4.8	-
Mold Stress Distortion Test	-	6.9	61
8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Hoffy Lv	Reviewed by:	Benson Li / Daniel Liu
Title:	Sr. Project Engineer	Title:	Sr. Tech. Supervisor / Asst. Manager
Signature:	Signature on file	Signature:	Signature on file

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	Guangzhou Romex Sanitary Ware Co., Ltd
Address	No.30, Shangdapu District, Gaopu, Taiping Town, Conghua, Guangzhou, Guangdong
Country	China
Product	Outdoor Spa

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:

Intertek Testing Services Shenzhen Limited Guangzhou Branch

ETL Component Evaluation Center

Room 101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District

Guangzhou, Guangdong, China

Attn: Ms. Joey Kuang

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test
Grounding Continuity Test

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
All products covered by this Report.	1000V	60 s
	or	
	1200V	1 s

11.2 Grounding Continuity Test

Method

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

Products Requiring Grounding Continuity Test:

All products covered by this Report.

12.0 Revision Summary

The following changes are in compliance with the declaration of Section 8.1:

[illegible]