

Production Booklet

for

LYALL SPA

2800 Richter Ave. Suite C, Oroville, CA 95965 • voice: (530)534-9910 fax: (530)534-9915 • email: sales@tiledspas.com • website: www.tiledspas.com



RECOMMENDED MAINTENANCE

Please Note:

These are only recommended guidelines to care for a Nespa all tiled spa. Local codes may require additional procedures, therefore consult with a pool professional that is LA county Health Department ceritfied for more information on local codes and requirements.

SPA SURFACE

Your spa tile is acid resistant and frost-proof. The Tile does not absorb germs or algae. Tile does not stain and is very easy to clean. Color does not fade or loose its luster. All grouts are epoxy based and are extremely durable. To remove scum line use soft nylon brush and small amounts of biodegradable soaps. Do not use abrasive brushes or chemicals.

MAINTENANCE

A. CHEMICALS:

- 1) It is important to maintain a chlorine residual of 2 PPM in the spa. That residual can be provided by chlorine or bromine.
- 2) It is recommended to use Bromine or dichlor (granular) forms of chlorine. If bromine Tabs are used we suggest floating or inline dispenser.
- 3) Never use acid to lower Ph in the tile spa.
- 4) Never use trichlor chlorine (1" or 3") tablets in the Nespa spas.
- 5) Never place tablets in skimmer basket.

B. DRAINING THE SPA:

- 1) It is recommended to drain the spa at least once every 2 months depending on bath load and water clarity.
- 2) The spa should be drained through valve exiting re-circulation pump in the spa equipment room or sump pump.
- 3) Note: Use caution to drain spa in the winter months or rainy season when water table is at its highest. It is possible for the spa to float due to hydraulic pressure from surrounding water table. We advise that you consult with your local spa specialist prior to draining the spa.

C. SPA EQUIPMENT:

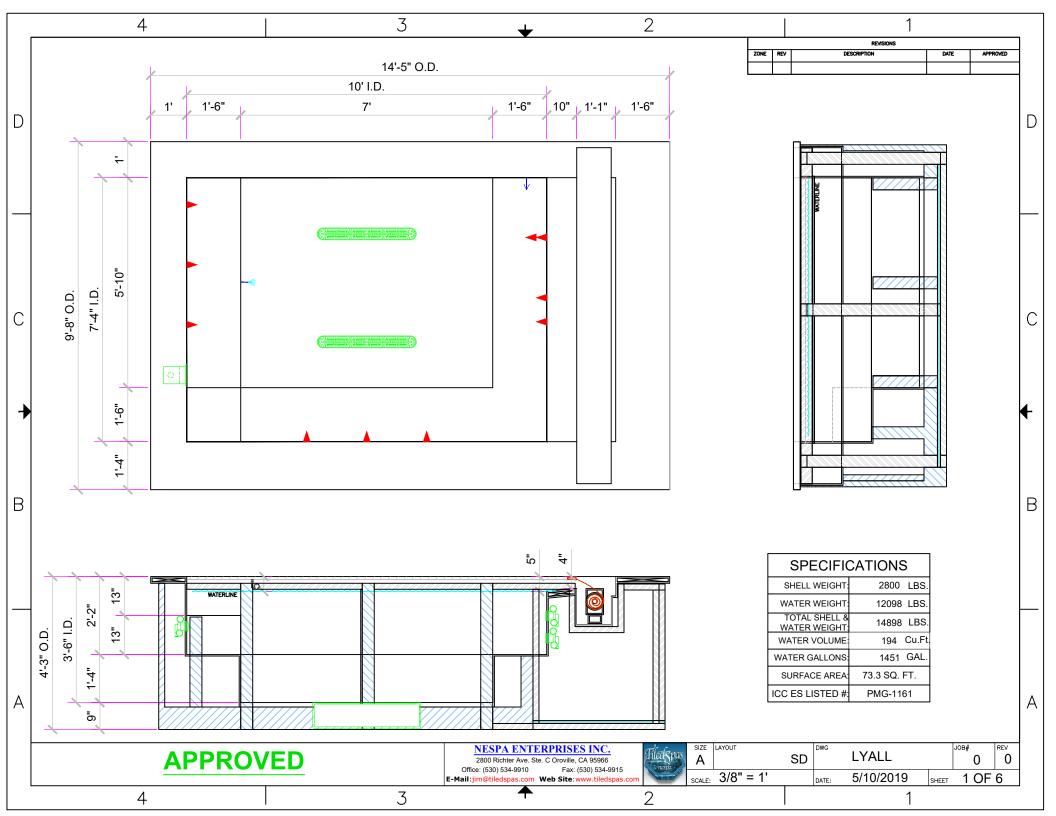
- 1) Clean filter cartridge at least once every month, or when needed; i.e., if water clarity does not improve after several days.
- 2) Keep area free and clear from leaves and debris build-up.
- 3) Keep area free and clear from flooding.

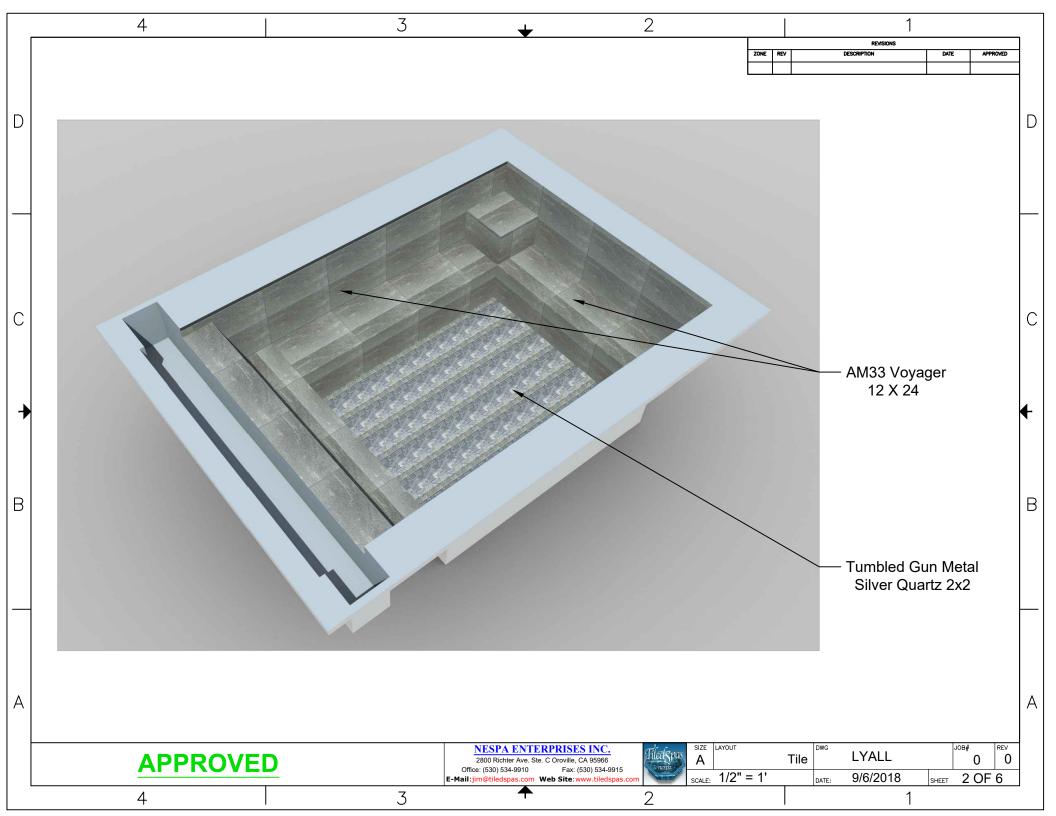
D. SPA LIGHT:

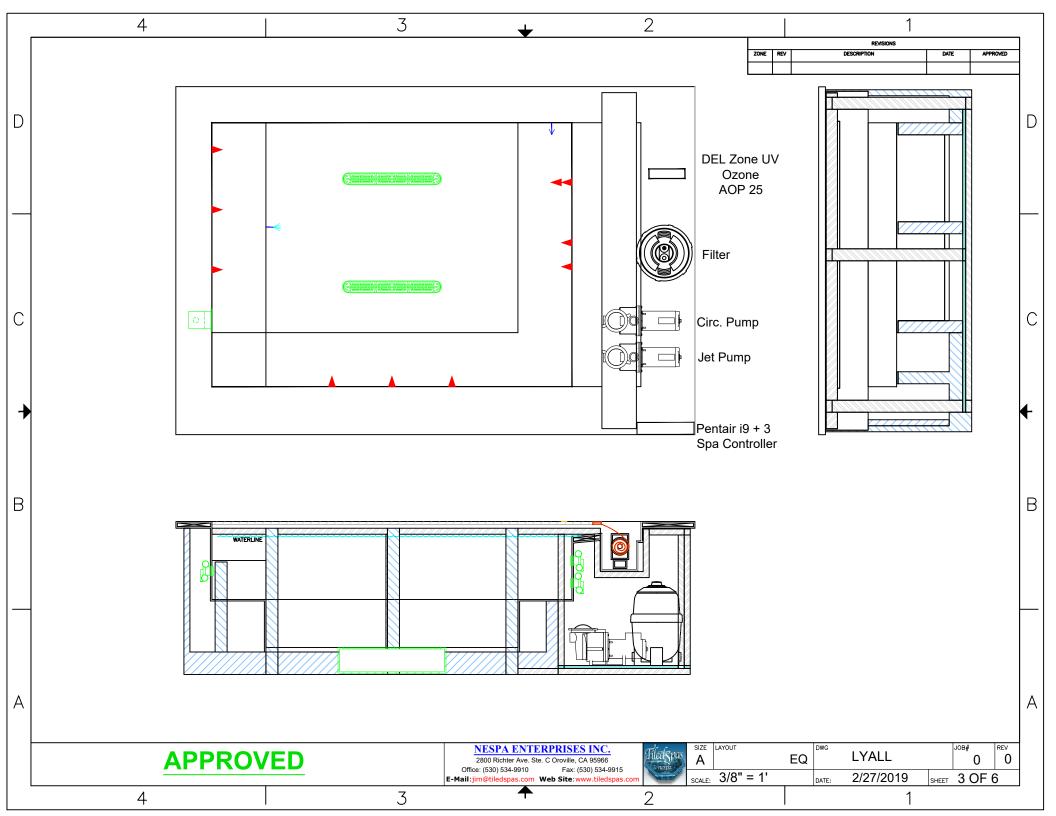
1) Spa light has to be on GFCI circuit. It is controlled at spa side with ON/OFF.

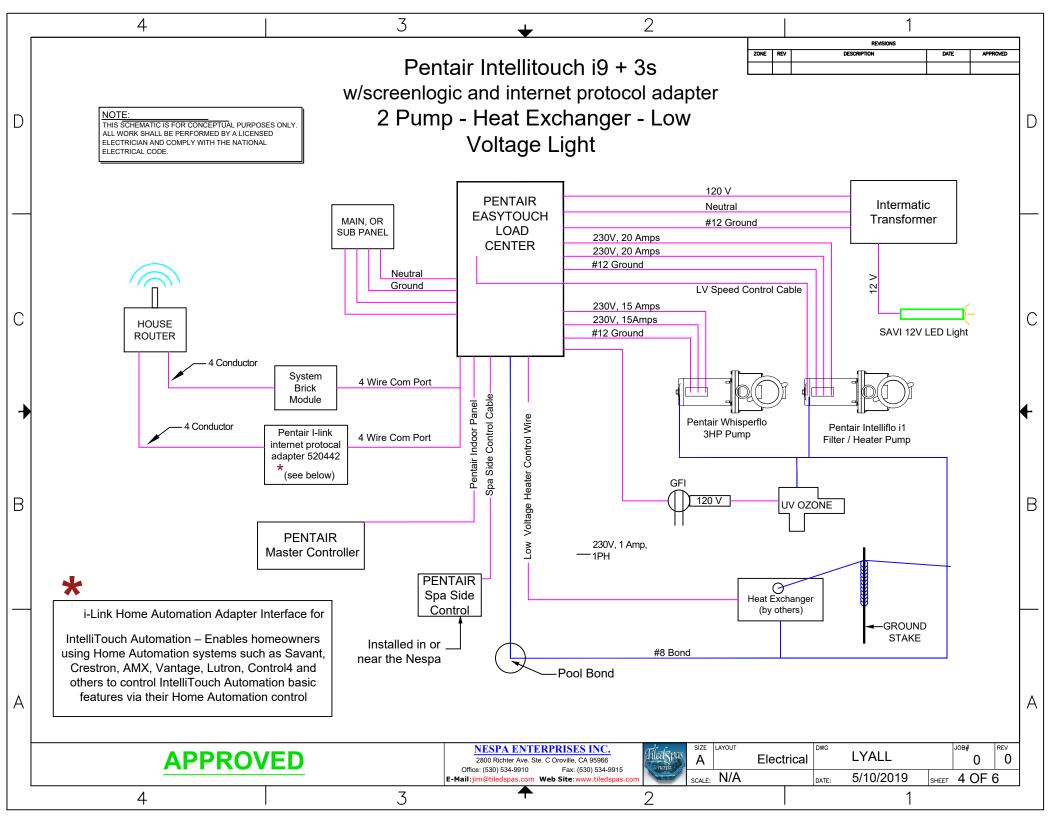
E. TILE SERVICING:

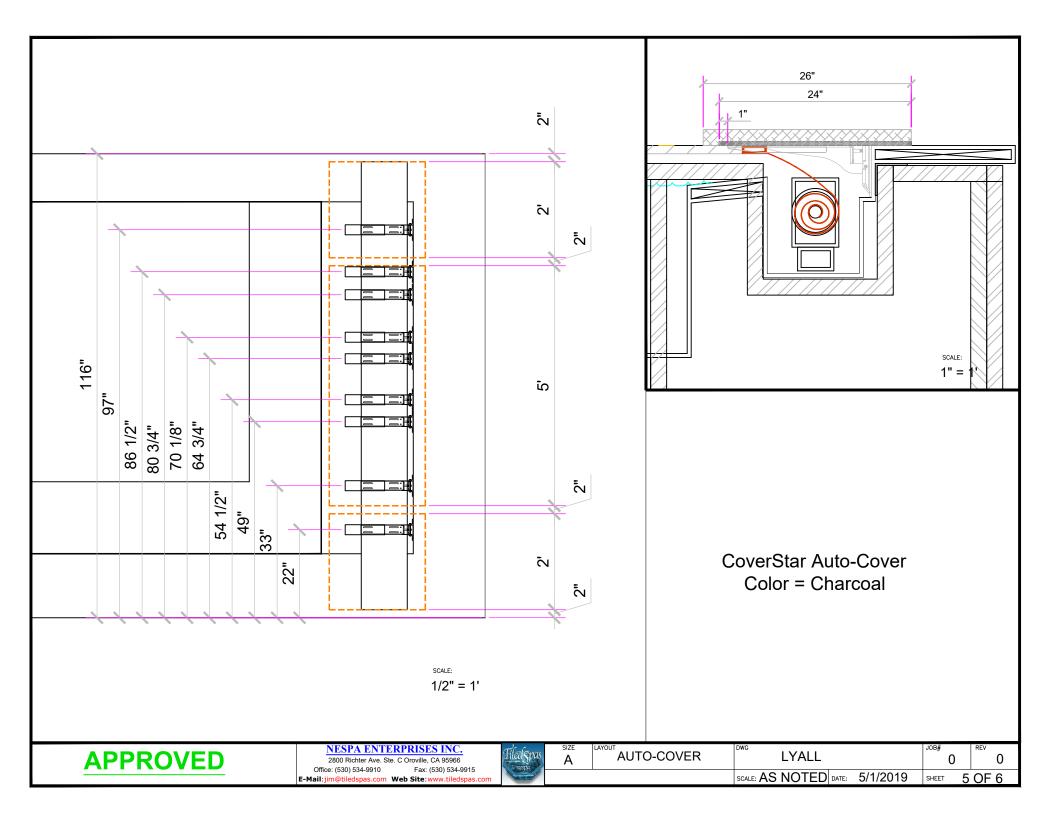
1) Contact manufacture when servicing tile or grout. @ (530) 534-9910

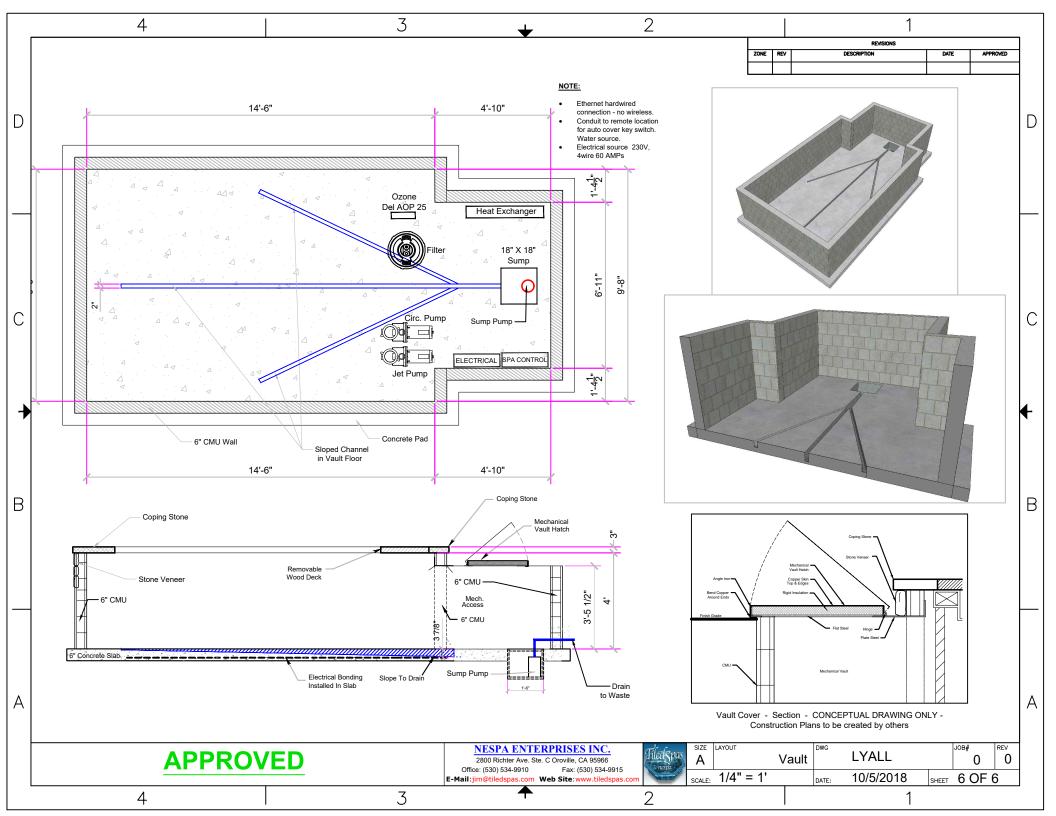












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NEI Scope- Provide and	l install on spa :			ZONE REV		REVISIONS DESCRIPTION	DATE	APPROVED	
Spa Filter Pump 1/2HP 2	230V/1ph, running load 7A, 15	A fused							
Booster Pump 3HP 230	//1ph running load 13A, 20A fu	used							
Spa LED 12v light 12v P	X100 120v Transformer								
Heat Exchanger and Co	ntrol Circuit connections by oth	hers and tied to	by others.						D
The spa is equipped with location to be determined	ting the load center and person an indoor control panel that w d by the customer prior to clos ne P-kit and provides the custo	will need a single sing in the walls.	This indo	or panel	plugs di				
	e a 4 button spa side remote t n the perimeter of the spa. Th								
connection will be provid	re hooking up to a home auto ed. It simply plugs into the cor house in order to connect.	m port on the P-							
need an Ethernet cable	ss controls are to be achieved oulled to connect from the horr stallation manual Appendix D)	nes router into tl							С
cover, a control box whic	he motor and controller for the h will be provided will need to panel. This will require proper	be mounted an	d wired to	a locatio	on of the	customers choo	sing.		
GC to Provide :									←
proper amperage Main d	connection to to Pentair Contr isconnect, ground ring and bo thing associated according to	onding, this inclu	des pullin						
2.) Ethernet wire for rem	ote app control.								
3.) Conduit and wire for	remote auto cover switch locat	tion.							В
, .	r and install a 120v strip of out ilation fan. Power supply to va	•	•				nodate		
heater is connected dire	e the Electric Heater 18kW 75 ctly to the breaker for constant ower to the element of the he	t power and one	of the 240	0V relays	s from th				
location to be determined com ports available on the button spa side remote t	with an indoor control panel th d by the customer prior to clos ne P-kit, and provides the cust nat will be provided. The spa s nduit and has a specific com p	sing in the walls. tomer with full w side controller w	This indo ired contro ill be place	or panel ol of the s ed on the	plugs di spa. Th	rectly into one of ne spa will also h	two ave a 4		
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Progress Print	NESPA ENTERPRISES INC 2800 Richter Ave. Ste. C Oroville, CA 95966		SIZE LAYOUT	pe Of W	ork	LYALL	JOB#	0 0	
Not for Construction	Office: (530) 534-9910 Fax: (530) 534- E-Mail:jim@tiledspas.com Web Site:www.tiled	-9915 189 4	SCALE:	N/A	DATE:	10/5/2018	SHEET 6	•	

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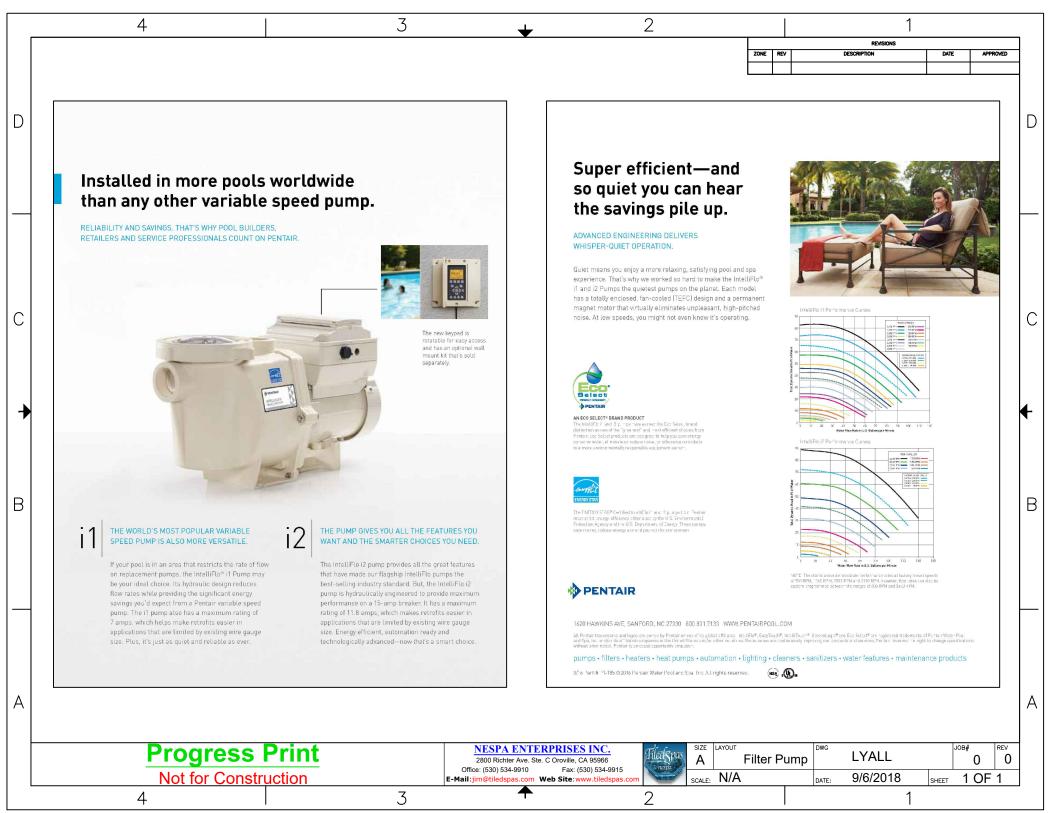
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PLAN APPROVAL DOCUMENTATION

Nespa's engineering and structural manufacturing departments may find it necessary
to make slight adjustments (= 1") to your spa. This may include the size of the spa (OD/ID), tile cuts, depths, jet location, bench steps etc. These adjustments must be made in the primary stages of building the spa. The adjustments are generally made to ad structural and aesthetic integrity to the vessel. IE: balance of supporting gussets (exterior) and less tile cuts/ symmetrical cuts, grout lines, etc. (interior)
Please initial next to the following number that describes your project needs.
1. <u>YES</u> , I understand adjustments need to be made. Nespa will use their expertise to make these adjustments as
needed. I give them the authority to make changes. I will receive final accurate drawings prior to receipt of spa
or spa hole construction (if changes were made to the size)
2. <u>NO</u> , No changes can be made even under 1". Dimensions are fixed. More tile cuts may be needed, Structural
supports may be altered to accommodate.
3. Nespa will need to contact us for any changes to spa dimensions prior to continued spa fabrication.
4. I have reviewed and approved the Spa dimensions, width, length and height.(Pg 1) Yes No Other
5. I have reviewed and approved the Spa Tile Type and Grout (Pg 2) Yes No Other
6. I have reviewed and approved the Spa Equipment Layout. (Pg 3) Yes No Other
 I have reviewed and approved the Vault Details. (Pg 4) Yes No Other
Purchaseræcknowdodgesidhædalharævjøvædraivspæstigithisæntessibrrigted or discussed no longer apply. Purchaser accepts that all dimensions external to the Notspa productate pigntbaser's responsibility and dhavipter cigater is responsible for the merging of Nespa product to job site conditions, all required dimensions and elevations and mechanical access. Purchaser also acknowledgescrives they avide esponsible? To fait bette dimensions and elevations and mechanical access. Purchaser also acknowledgescrives they avide esponsible? To fait bette dimensions are elevations and mechanical access. Purchaser acknowledgescrives they avide esponsible? To fait bette dimensions and elevations and mechanical access. Purchaser acknowledgescrives they avide esponsible? To fait bette dimensions and elevations and mechanical access. Purchaser acknowledgescrives they avide esponsible? To fait bette dimensions and elevations and mechanical access. Purchaser acknowledgescrives they avide esponsible? To fait bette dimensions and elevations and mechanical access. Purchaser acknowledgescrives they avide esponsible? To fait bette dimensions and elevations and mechanical access. Purchaser acknowledgescrives they avide esponsible? To fait bette dimensions and elevations and mechanical access. Purchaser is to provide protection to spa finish as well as plumbing during the installation phase.
This includes rain, freeze and sun exposure.
I approve the above drawings : XDate:
Any changes to these plans from here forward shall be directed in writing to Nespa.
All drawing dimensions supplied by <u>NESPA ENTERPRISES INC.</u> are for reference only. All CAD files were created using AutoCAD file (*dwg.) and were provided as a service to our customers using AutoCAD. Errors sometimes occur during this process and with software incompatibility upon opening a file. <u>NESPA ENTERPRISES INC.</u> and/or any authorized distributor of our products will not be held responsible for problems arising from files which have been converted and does not warranty the documents against deficiencies or typographical errors of any kind. We recommend that all measurements are verified with actual physical product before any custom fabrication in the field
recommend that an medoarements are verned with actual physical product before any custom labrication in the field

occurs.		Tiledspas			
NESPA ENTERPRISES INC. 2800 Richter Ave. Ste. C Oroville, CA 95966	Office: (530) 534-9910 Fax: (530) 534-9915 E-Mail:jim@tiledspas.com Web Site: www.tiledspas.com	nespa	DATE	10/17/2018	LYALL



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PENTAIR

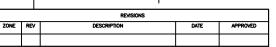
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WHISPERFLO®

HIGH PERFORMANCE PUMP



WHISPERFLO® HIGH PERFORMANCE PUMP

2

Cam and Ramp[™] Lid makes inspection and cleaning easy and quick Heavy-duty threading for dependable worry-free connections Durable, commercial-grade motor never needs lubrication Oversized strainer basket extends time between cleanings



QUIET. EFFICIENT. DURABLE.

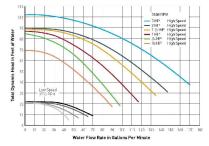
The WhisperFlo pump delivers maximum circulation efficiency at the lowest operating cost, and long, trouble-free life with minimal maintenance. Our legendary hydraulic design has been refined over 40 years for superior performance. No wonder more than 2 million Pentair pumps have been selected by pool professionals.

- Advanced FunnelFlo^{rs} Diffuser and high-efficiency impeller maximize water flow and energy efficiency while minimizing turbulence and noise.
- · Energy-efficient motor with commercial-grade frame, rustproof stainless steel shaft and permanently lubricated, sealed bearings for long life.
- Available in single-speed and two-speed models.
- Ideal for pool and spa combinations and for operating in-floor cleaning systems.

AVAILABLE FROM:

PENTAIR

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pentairpool.com

pumps + filters + heaters + heat pumps + automation + lighting + cleaners + sanitizers + water features + maintenance products 11/14 Part #121-222 @2014 FertainWaten Fool and Spa, Inc. AL rights reserved. 🛛 👧 👔



1620 HAWKINS AVE, SANFORD, NC 27330 800.831.7133 WWW.PENTAIRPOOL.COM

THE INDUSTRY STANDARD BY EVERY MEASURE

We call it the WhisperFlo pump for good reason. This innovative hydraulic design moves water more efficiently and more quietly than competitive pumps. Under typical operating conditions, the WhisperFlo pump offers the highest water flow of any high performance pump-yet with the lowest electricity consumption. And, the WhisperFlo aumois designed to be a tireless workhorse. Its engineered thermoplastic housing withstands extreme heat and resists corrosion. The commercial grade motor frame has a rustproof, stainless steel motor shaft and sealed bearings that never need lubrication. Engineered to provide optimum performance in any size pool or pool and spa combination, the WhisperFlo pump is built to last a lifetime, and as a result, has become the industry's top seller for years.

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The WhisperFlo pump costs less to operate, because it uses less horsepower to produce required water flow.

- Specially-engineered design assures whisper-quiet operation.
- · Oversized strainer basket extends time between cleanings.
- See-through lid makes inspection fast and easy—engineered polymer remains clear and strong for years.
- The user-friendly Cam and Ramp" Lid is easy to remove and quickly locks in place with a quarter-turn.



Greatest capacity for least maintenance

The System 2 Mod Media system from Sta-Rite is the ultra-capacity filter ideally suited for aboveground pools. The Mod Media system handles dirt loads up to 15 times greater than sand filters of equivalent size. Balanced flow tank hydraulics direct water through each side of the filter module for uniform dirt loading. This prevents clogging and captures more dirt between cleanings to minimize maintenance time.

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You may go an entire season before you need to dean your PLM aboveground filter.

• You won't clean often, but it's easy when you do—just rinse in place with a garden hose.

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- Quiet, highly efficient pump options keep operating costs low.
- · Compact design fits easily in tight installations.



The Mod Media system strips away particles as small as 20 microns (on average grain of beach sand is 100 to 2000 microns in diameter.),

System:2 Mod Media

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Spray-and-go simplicity

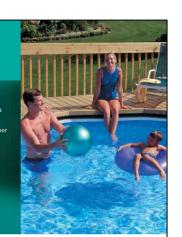


The System2 Mod Media system features a one-piece filter module that simply drops into the easily accessible tank. It's foolproof! When cleaning is necessary, just remove the lid (no tools are needed) and spray-rinse the module while it is still in place.* It only takes minutes to clean thoroughly and get back into service fast.

Convenience and versatility

The Mod Media systems small diameter footprint is the perfect fit for new and retrofit installations. Interchangeable ports provide multiple plumbing options and the modular filter tank permits quick change of filter media. Contemporary styling and matte black finish appear attractive in any pool setting.

*Modules used in conjunction with certain pool/spa sanitizers may require soaking in special cleaning solutions.



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Filter Performance

Model	Pump (HP)	Filter Area (Sq. Ft.)	For Pools up to (Gal.) 8 Hr. Turnover
SRPLM 100OE	Ĩ	100	48,000
SRPLM 100OF	1.5	100	48,000
SRPLM 150 CE	I	150	72,000
SRPLM 150 OF	1.5	150	72,000

REVISIONS

DESCRIPTION

Operating Limits - Maximum continual operating pressure is 50 PSL For Pool/Spa (bather) applications, the maximum operating water temperature within the filter is 104°F (40°C). Note: Turnover capacity based on filter

Available from:

STA-RITE



pumps / filters / heaters / heat pumps / automation / lighting / cleaners / sanitizers / water features / maintenance products

A lishtir trace-wrise and opposite owned by ferrar or one of tag obse attilates Sta-Hat[®] Opplio¹(system)2 Moo. Media[®] and Hos-Hirg[®] are trace-wrise and-on-agroment tradematics of lishtar Weber loop and pair in another its all and the tag obse. Attrace we are contribusely improving our products are service, Pertair reserves the right to durge exectinations whould prior notice Pertair s an aqual opport. Unit any implement

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SPECIFICATIONS

DEL AOP 25	DEL AOP 50
110/240VAC 50/60 HZ, 1Ø, 0.3 Amps	240 VAC, 60 HZ, 1Ø, 0.6 Amps
Inlet and Outlet 3/4 inch PVC Socket	Inlet and Outlet 2" PVC Unions
20 GPM	50 GPM
Wall Mount	Floor or Wall Mount
CSA/NEMA 3 Indoor/Outdoor Installation	CSA/NEMA 3 Indoor/Outdoor Installation
16.7" H × 11.9" W × 3.2' D	17" H × 9.5" W × 13.5" D
9.2lbs	45lbs
Low Pressure/High Output UV-C Germicidal	Low Pressure/High Output UV-C Germicidal
APG Cells; 5 Year Life Expectancy	APG Cells; 5 Year Life Expectancy
MDV	MDV XL
	110/240VAC 50/60 HZ, 10, 0.3 Amps Inlet and Outlet 3/4 inch PVC Socket 20 GPM Wall Mount CSA/NEMA 3 Indoor/Outdoor Installation 16.7" H × 11.9" W × 3.2" D 9.2lbs Low Pressure/High Output UV-C Germicidal APG Cells; 5 Year Life Expectancy

APG

DEL AOP uses patented Advanced Plasma Gap $^{\rm ts}$ (APG) ozone cells that last longer and outperform UV and traditional CD style ozone generation.

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All DEL products are quality certified through a multi-step process to ensure seamless operation and complete customer satisfaction.

SAFE EFFICIENT SUSTAINABLE

DEL products are environmentally friendly, reduce dependence on chemicals and are safe for every pool.





by eliminating possible orgas, an Moy unit reduces the potential for corrosion or deterioration of pool accessories like a pool cover. It also allows the use of an "oversized" ozone generator to ensure a greater disinfection margin and larger reduction in chemical use. In each MDV a Granulated Activated Carbon (GAC) destruct cartridge destroys excess gas removed by the MDV.

MDV

When used with the AOP 25 the MDV prevents virtually all ozone bubbles from returning to the pool. It can prevent bubbles from gathering under the cover or inside plumbing.

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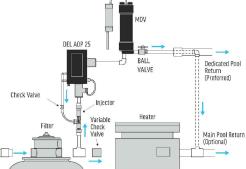
MDV XL

The MDV XL should be used in all indoor, covered, and vinyl lined pools where there is an AOP 50 installed. It can also be used in outdoor applications to eliminate bubbles in your return flow.

INSTALLATION DIAGRAMS

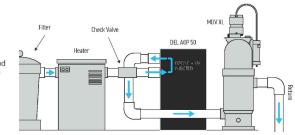
DEL:AOP25

- Wall Mount Only
- Outlet Installs After Heater
 Injector Included
- Injector Included
 3/4 inch PVC Socket
- MDV Recommended



DEL:AOP50

- Ground or Wall Mount
- Install after Pump, Filter and
- Heater
 Variable Speed Check Valve and Injector Manifold are Built into
- the Unit • 2" PVC Unions
- MDV XL Recommended





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ZONE REV

MDV XL

REVISIONS

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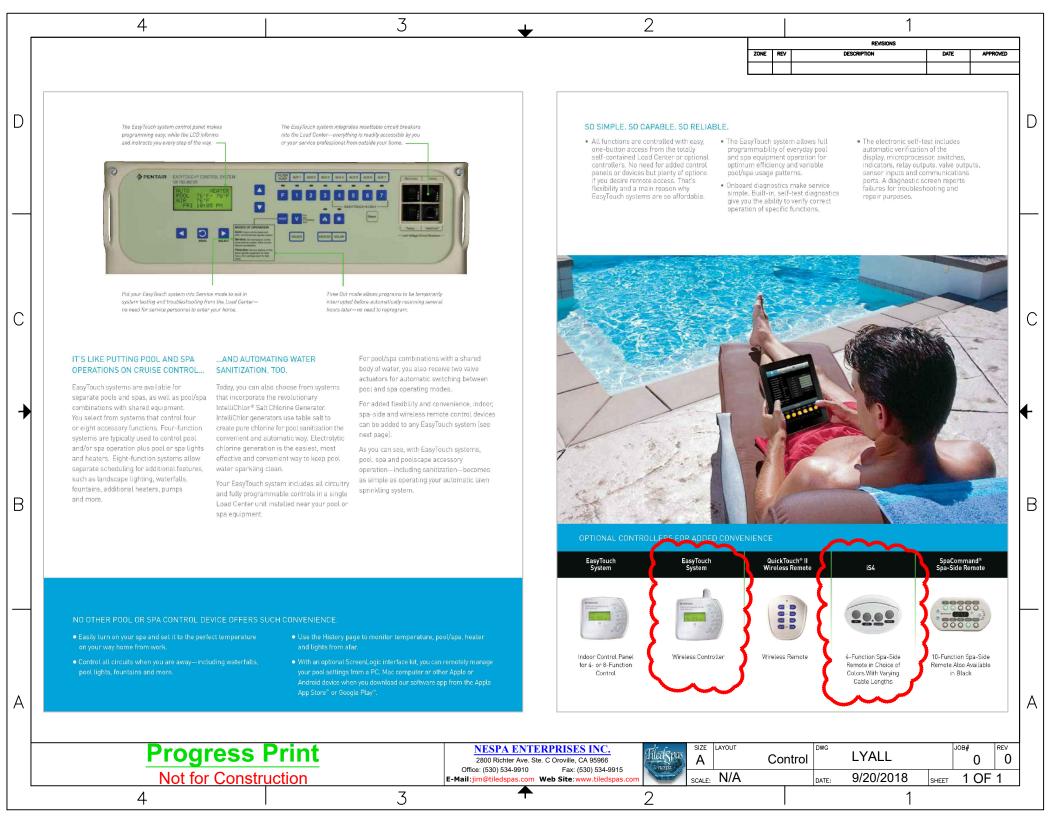
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STANDARD NESPA IN-GROUND INSTALLATION INSTRUCTIONS SET-UP AND EXCAVATION

Prerequisites: Before installing your Nespa spa. You may be required to acquire a permit from your local State, County, and City building dept and or Health department. (Commercial jobs need Health Dept. Approval). Your spa installation must comply with the most current codes. (Uniform Swimming **Pool, Spas & Hot Tub Code 2006 (USPC 2006).**

Spa drawings: Request from Nespa a current spa specific construction detail, plan and section, spa plumbing detail.

Delivery Access: Clearly determine the method of getting the spa to jobsite and into the hole. This may require the use of a crane, forklift, hoist, backhoe and/or manpower etc.

1) The following instructions are general guidelines and may not apply to your specific jobsite conditions. When excavating for your spa remember to provide for plumbing and light connection clearances. In order to determine how to excavate for your spa or swim spa, measure spas outside dimension (O.D.) and add minimum 3" to all sides. This 3" clearance is to accommodate jet and suction plumbing. This 3" clearance can change or be reduced upon request. Note: skimmer location, this area may have to be larger than 3", if commercial 22".

- 2) Freeze Climates- If the spa is place into a vault (typical of freeze climates) a standard 18" or more of clearance minimum from spa perimeter should be provided. This dead air space is for possible future access to spa plumbing in case of a freeze. Area drain is mandatory. Ask your local installer for his experienced opinion. Do not hesitate to call us because we want to be sure that your installation progresses as smoothly as possible. If you have questions call us. (888) 479-4677.
- 2) **Hole depth** is determined by spa's outside height dimension. This height may vary depending if spa has skids or no skids. The spa lip may be finished or non- finished. How is the perimeter deck elevation transitioning to the spa? Focus on the finish surrounding deck elevations, thickness of the finish material on spa upper horizontal lip, equal to lip or under the spa lip. This material can be tile, stone, concrete or brick.
- 3) **Preplumb** the spa before it goes into the hole. If there are needs for electrical, bonding or control conduits run them as well before dropping in hole. Connect bond wire to niche would be best.

4) Spa should sit on level 3 ¹/₂" thick reinforced concrete pad. Sweep debris off pad prior to dropping in hole.

5) **Install spa** into the hole on top of concrete pad. Use the Eye bolts provided for crane, forklift etc. rigging. Do not hold onto pipes. Use caution with suction and jet plumbing when lowering into hole. DO NOT STRESS FITTINGS! Fill Spa with water and check for leaks prior to backfill.

- 6) Check site reference points for proper spa positioning (i.e., squaring to house, garage, etc.).
- 7) Shim to level spa. Shim with non-compression able material. Re square to house, or ref. point.
- 8) Dry pack with cement the gaps that have been created when shimming spa level.
- 9) Connect pipes to tees if spa is preplumb. Installers properly support your new plumbing from stressing spas preplumb fittings. After electrical conduit and bond wire is connected to light niche, water test spa before back filling with sand. NOTE: All Nespa products are water tested prior to leaving factory.

ELECTRICAL:

- 1) All electrical connections to spa or equipment should comply with the most recent national electrical code (NEC), state and local codes.
- 2) Connect electrical conduit to light niche. This work should be done or reviewed by a licensed electrician.
- 3) To install spa light you will need to include inside the PVC conduit to the light niche a solid #8 coated copper wire. (If you are use brass conduit, internal bond wire is not required.) This bond wire should be pulled with the light cord at the same time. This bond wire needs to be attached to the internal bonding lug of the light niche. An approved encapsulate should be applied to bond wire connection in niche.
- 4) An external #8 copper wire shall be connected to the external bonding lug on the rear of the light niche. This copper wire can then be used for additional bonding requirements (i.e., handrails or any other metallic object within 5' of the spa.

PLUMBING:

- 1) When plumbing a Nespa it is important to properly size the plumbing. We highly recommend that you follow the pump manufacturer's pipe sizing requirements and Uniform Swimming Pool, Spas & Hot Tub Code 2006 (USPC 2006). This code book is available at <u>www.IAPMO.org</u> or (909) 472 4100.
- 2) The jet air venturi should be a Hartford loop design adjacent to spa shell and air entry point can be located next to spa or remotely at equipment.
- 3) Fill spa with water and test the system for leaks PRIOR to backfilling with sand.

SAND BACK FILL:

- 1) With water in spa, back-fill around spa perimeter with dry plaster sand and wet wash with hydraulic attachment to hose. Let set for one hour and hydraulic dry again. Be sure water level in spa is at the highest level. Any questions please call us. (888) 479-4677.
- 2) If spa is free standing on elevated deck or a structure, it is important to fill spa with water and load area prior to installing coping or perimeter decking. If spa is installed in a vault situation a area drain is needed.



se drawings, concepts, and details contained herein are the original proprietary designs of NESPA ENTERPRISES, developed over many years of experience in the pool and spa industry a as such are protected by the copyright laws of the United States Government. Reproduction of any of the above without written permission to do so by NESPA ENTERPRISES, is illegal.

POOL BONDING REQUIREMENTS:

1. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID.

- A. ALL THE METALLIC PARTS OF THE POOL STRUCTURE INCLUDING COPYING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
- B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING
- SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
- D. METAL PARTS ASSOCIATED WITH POOL COVERS
- E. METAL SHEATHED CABLES AND RACEWAYS. METAL PIPING AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE MAXIMUM WATER LEVEL OF POOL.
- PLATFORMS, AND DIVING STRUCTURES.

2. BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED E.C. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/ OR POOL INSPECTOR.

3. SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.

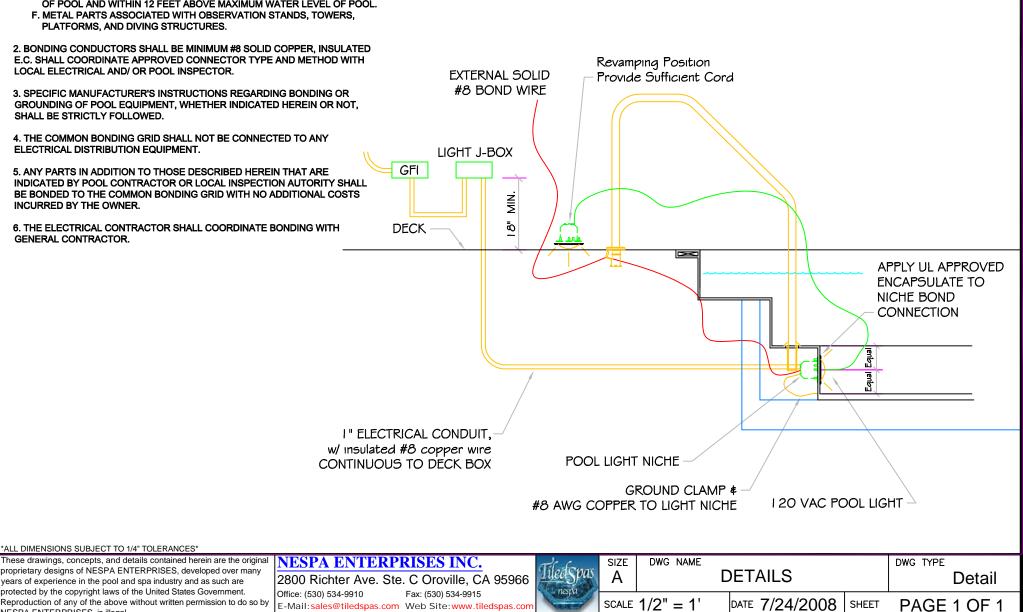
4. THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.

INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.

6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH GENERAL CONTRACTOR.

NESPA ENTERPRISES, is illegal.





E-Mail:sales@tiledspas.com Web Site:www.tiledspas.com

NESPA ENTERPRISES, Inc. LIMITED WARRANTY

This LIMITED WARRANTY covering NESPA products is extended to the ORIGINAL PURCHASER-USER BY NESPA ENTERPRISES Inc.(NESPA), 2800 Richter Ave. Unit C California 95966.

NESPA products are thoroughly inspected and tested prior to factory shipment. NESPA warrants to the ORIGINAL PURCHASER-USER that NESPA Spas and Swim Spas will be free of defect in workmanship, accessories and parts, provided said accessories and parts were manufactured by NESPA. NESPA, under this LIMITED WARRANTY, warrants only that its Spas and Swim Spas shall be structurally sound, shall retain their shape, and shall retain water for the warranty period. NESPA warrants the adhesion of tile to fiberglass for a period of three (3) years and structural soundness for ten (10) years. NESPA warrants epoxy grout adhesion for a period of three years. If any such defects appear and are reported within the warranty period, NESPA shall repair or replace such defective parts without charge if an inspection proves the claim.

The provisions of the LIMITED WARRANTY shall not apply to tile cracked, split, chipped or damaged after the product has left the factory, nor damage to tile caused by freezing nor to damage, defect, malfunction or failure to conform with the above warranty provisions where the damage, defect, malfunction or failure to conform was caused during shipment or by distributor or by unreasonable use by ORIGINAL PURCHASER-USER including improper water balance and improper sand pack or support.

This LIMITED WARRANTY shall not apply to any plumbing, equipment, or installation of spas and Swim Spas and shall not apply to any alterations made to or upon NESPA products except alterations made by NESPA employees or NESPA authorized representatives.

This LIMITED WARRANTY is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use and all other obligations or liabilities on NESPA'S part, and NESPA neither assumes nor authorizes any other person to assume for NESPA any other liability in connection with the sale of this NESPA product. This LIMITED WARRANTY shall not apply to this NESPA product or any part thereof which has been subject to accident, negligence, alteration, abuse or misuse. NESPA makes no warranty whatsoever with respect to accessories or parts not manufactured by NESPA.

The term "ORIGINAL PURCHASER-USER" as used in this LIMITED WARRANTY shall be deemed to mean that person for whom the NESPA product is originally installed.

The LIMITED WARRANTY provided herein and the obligations and liabilities of NESPA hereunder are exclusive and are in lieu of, and buyer and original PURCHASE-USER hereby waive all other remedies, warranties, guarantees or liabilities, expressed or implied, arising by law or otherwise (including without limitation and obligations of NESPA with respect to fitness, merchantability, and consequential damages) or whether or not occasioned by NESPA'S negligence.

This LIMITED WARRANTY shall not be extended, altered or varied except by a written instrument signed by NESPA and original PURCHASER-USER.