



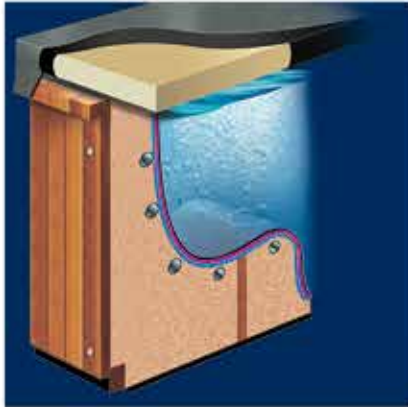
The HYDROPOOL Hot Tub HydroGuide

Helping You to make
an informed decision
about your long term
investment.



HYDROPOOL
hot tubs • swim spas

THE WATER IS CALLING.



The evolution of energy efficiency in a Hydropool Hot Tub.

THE ENERGY EFFICIENCY STORY...

1990, NO FOAM

1992, NO FOAM CHANGES TO FULL FOAM. Why?

- Better insulation.
- Supported pipes.

1996, FULL FOAM CHANGES TO PERIMETER FOAM. Why?

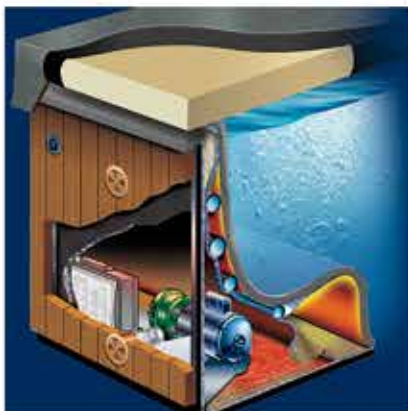
- Water will take the path of least resistance hence, if there was a problem with the plumbing the water could appear on the other side.
- It is difficult to service because there is no access to plumbing without a full dig out.
- Not able to access plumbing without compromising the insulation or structural integrity.
- Each motor creates 1.5 kw of heat and all of that heat was being expelled from the hot tub as opposed to being used to help heat the water.

2000, PERIMETER FOAM CHANGES TO HYDROWISE THERMAL SHIELD. Why?

- Causes leaks due to plumbing support issues.
- Gaps in panels allow heat to escape.
- The Motor needs to breath, and without vents it.
- overheats and causes the pumps to fail.

2005, HYDROWISE THERMAL SHIELD TECHNOLOGY. Why?

- Polyfilm barrier supports the plumbing.
- Easy access to service.
- Uses the waste heat of the motor, shell and pipes to heat the hot tub.
- Eco heat exchange Venting to expel the heat in the summer and trap the heat in the winter



Today, energy efficiency beyond compare.

So how do we do it? ENERGY EFFICIENT FILTRATION

Your Hydropool hot tub filters 100% of the water in only 15 minutes. This means the hot tub does not have to be operating as long to filter the same amount of water as other hot tubs. The most energy efficient filtration system in the world. Our Low Amperage Evergreen Pump are designed as a high flow low energy pump engineered to produce high flow rates with low energy consumption. This means our Hydropool filtration pump is 26% more efficient than the competition.

HYDROWISE HEAT SHIELD HARDCOVER

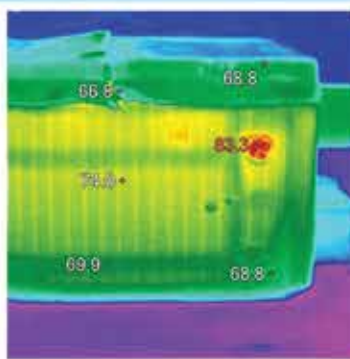
Made for Canadian Winters and inspired by NASA technology. The Heavy Duty tapered locking safety hardcover has an insulated baffle in the fold area that locks the heat in and the cold out.

INSULATED THERMAL SHIELD BLANKET

The Triple Thermal Shield Technology (pipes, cabinet and floor) employs a reflective foil on the hot tub side that reflects the heat back into the hot tub and a black side on the outside of the pipes that's designed to absorb heat.

ECOHEAT EXCHANGE TECHNOLOGY

Fully adjustable venting. Each pump creates 1.5 kw of waste heat and our Double Thermal Shield blanket reflects that heat back into our hot tub cavity. HydroWise Thermal vents maximize energy efficiency for any season and any climate.



With your Hydropool Hot Tub... 1. Extend 2. Protect 3. Save

All of the technology has been designed to exceed state of California Regulations which are some of the stiffest regulations in the world. All Hydropool products are TUV and CE certified. We are literally setting the standard. Hydropool is ranked one of the top in the world for "stand-by" wattage and energy efficiency and one of the first to be approved under the strict State of California Guidelines.

1. Extend the life of your water.

Hydropool Self-Cleaning Technology

We know that one of the big challenges for our customers is the time they need to invest in maintenance. Now, with our patented Self-Cleaning technology, Hydropool has created the world's easiest hot tub to maintain. The Self-Cleaning System cleans 100% of the water in only 15 minutes, that's an incredible 8 times in 2 hours!

LET'S BE CLEAR, THIS IS NOT A SIMPLE VACUUM FOR YOUR HOT TUB, IT'S INNOVATION THROUGHOUT THE ENTIRE SYSTEM.

1. HydroClean Filtration Jets.

OPTIMIZED SURFACE FILTRATION.

2. High Flow Skimmer & Pre-filter.

TOTAL SURFACE CLEANING.

3. HydroClean Floor Vacuum.

DEEP FLOOR CLEANING.

4. Pressurized Micro-Filtration.

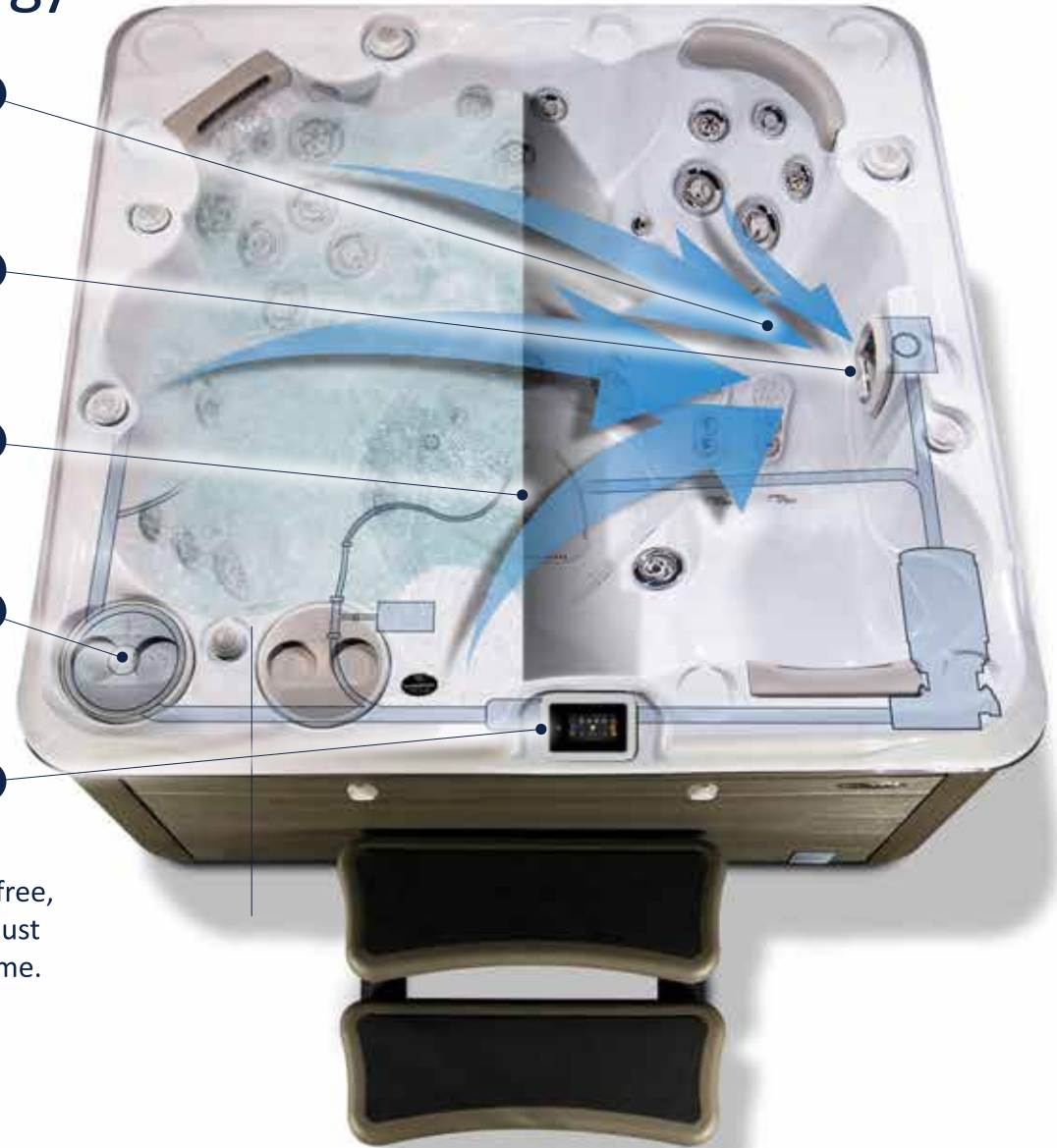
CLEANS 100% OF THE WATER EVERY 15 MINUTES.

5. Self-Clean Indicator.

ALWAYS ON THE JOB.

And to make draining your water when you need to easy and hassle free, we've developed the Quick Drain System. There's no Sump pump, it just pumps the hot tub water out to any distance or grade which saves time. Eliminating the hassle associated with hot tub maintenance.

**LESS TIME FILTERING = BETTER ENERGY EFFICIENCY
BETTER FILTRATION = LESS WATER TURNOVER**

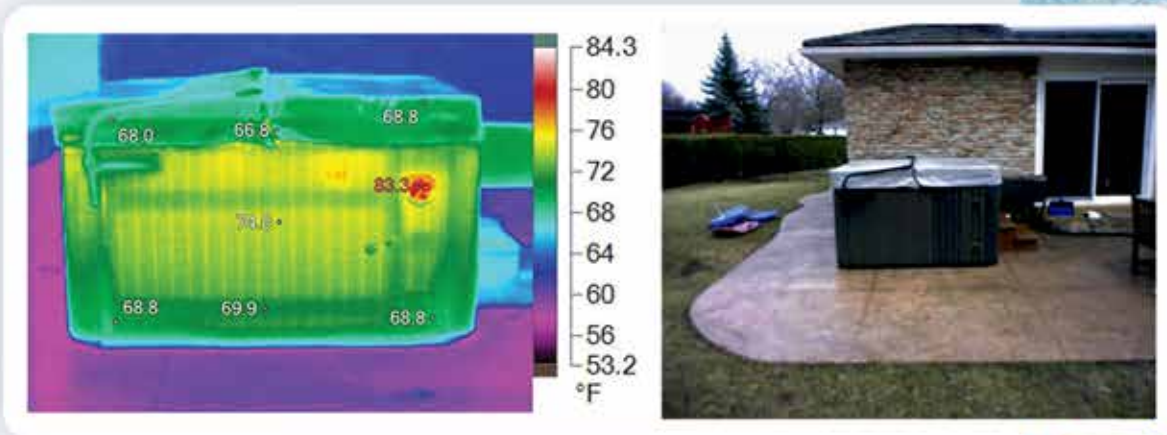


2. Protect your hot water from the cold extremes.

Hydrowise Heat Shield Cover

MADE FOR CANADIAN WINTERS

- Four inches thick in the middle and tapers to three inches on each end.
- Insulated bumper down the fold area of the cover.
- Supports up to 250lb.
- **80% of all heat is lost through the cover.**
- Safety Locks on both sides.



▲ **Hydropool 495-2.is2**
4/11/2011 9:26:43 AM
Thermal image with temperature
variances throughout hot tub.

▲ **Visible Light Image**



2. Protect your hot water from the cold extremes.

Thermal Shield Blanket

R - VALUES FOR VARIOUS INSULATION

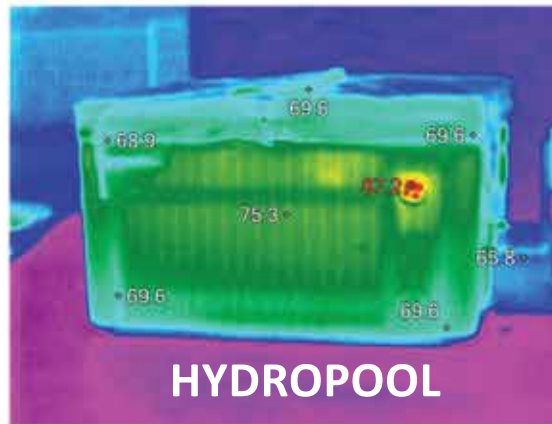
CLOSED CELL FOAM. R 5.5

OPEN CELL FOAM R4.3

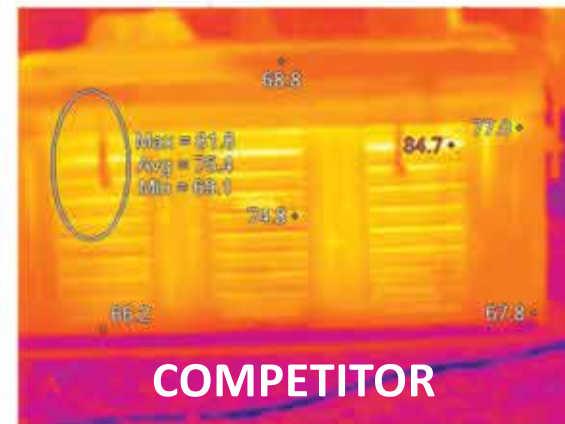
AYR-FOIL A2V FOIL R14 - R16

HOW?

- Triple Thermal Shield Protection (Pipes, Cabinet, Floor)
- Traps the waste heat of the Motor, Pipes, shell and reflects the heat back into the water.
- Black Pipe Technology absorbs heat.
- N.A.S.A. inspired technology.



HYDROPOOL



COMPETITOR



3. Saves dollars by keeping the cold out and the warm in.

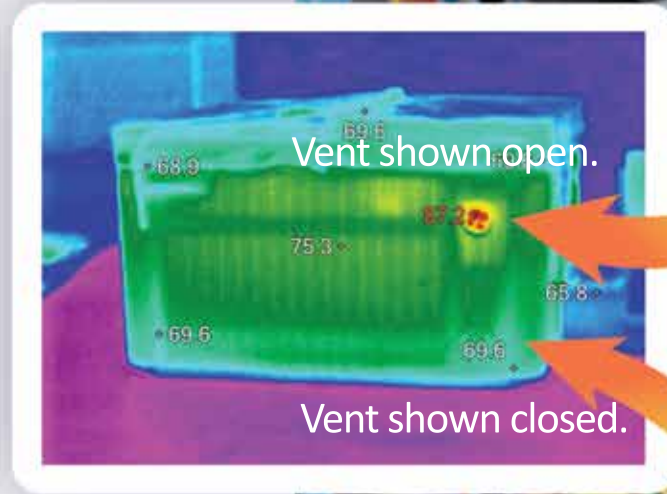
Eco Heat Exchange Thermal

INCREASE MOTOR PERFORMANCE AND DURABILITY

Located on either side of the cabinet, the adjustable thermal vents allow for cross ventilation across the motor area during the summer months and lock the heat in in the winter.

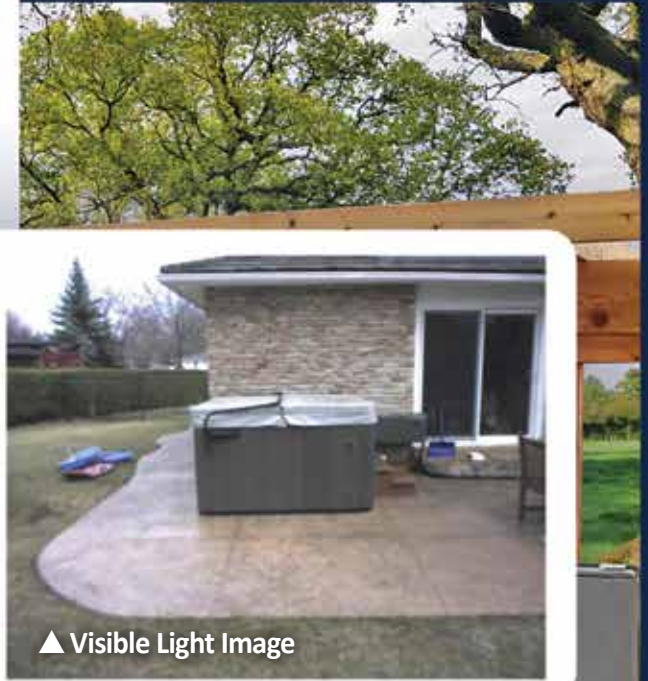
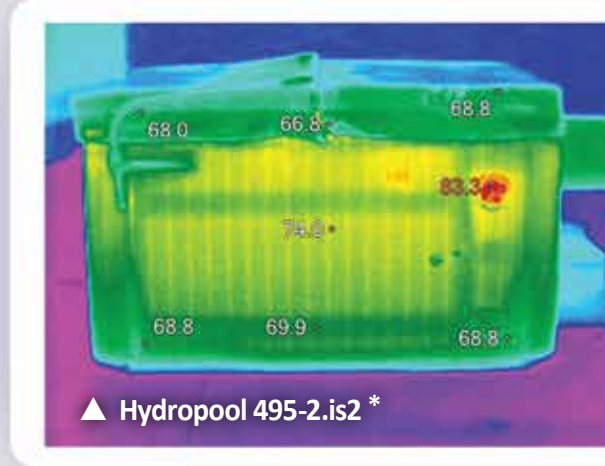
Fully adjustable venting. Each pump creates 1.5 kw of waste heat and our Double Thermal Shield blanket reflects that heat back into our hot tub cavity.

HydroWise Thermal Vents maximize energy efficiency for any season and any climate.

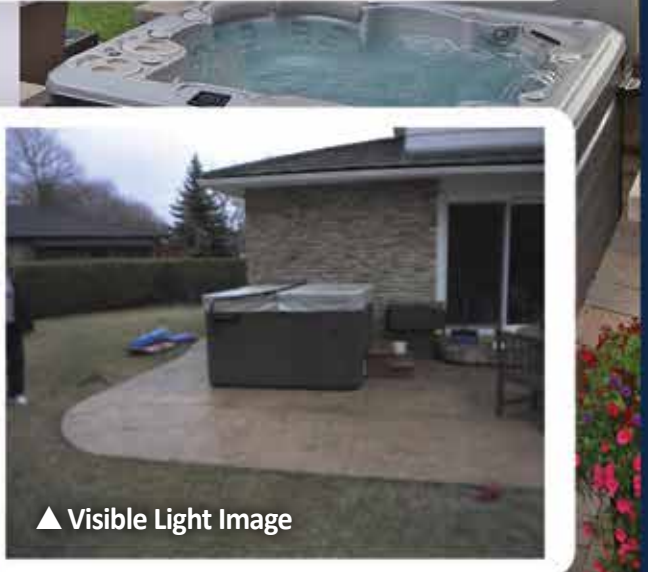
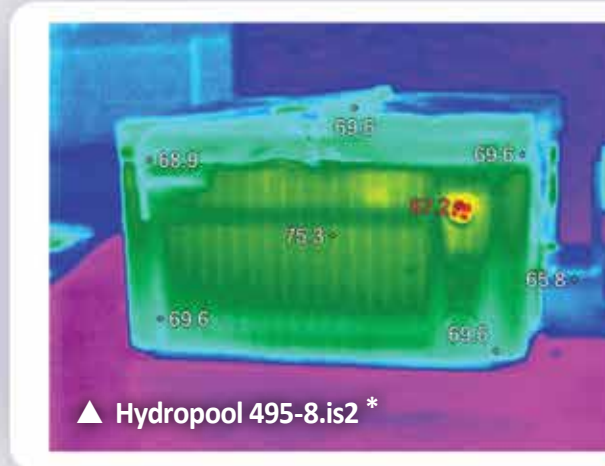


THERMAL SHIELD Thermal Imaging

Hydropool, Georgetown, Ontario



Hydropool, Georgetown, Ontario



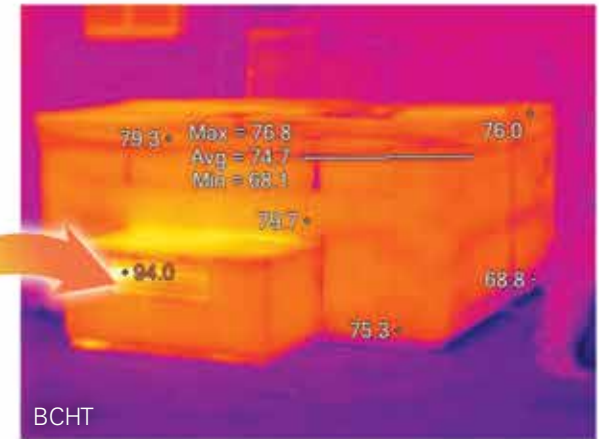
* Thermal imaging produced by a 3rd Party Canadian Independent Engineering Firm

Full Foam Thermal Imaging

Showing No Motor Heat Recovery

Hot tubs with dated or poor insulation design, or low-quality insulation will lose much of the interior heat through the four cabinet walls of the hot tub. This forces the heater and other systems to work harder to maintain the set water temperature of the hot tub - working over time, extending energy use ultimately driving down the energy efficiency of the hot tub.

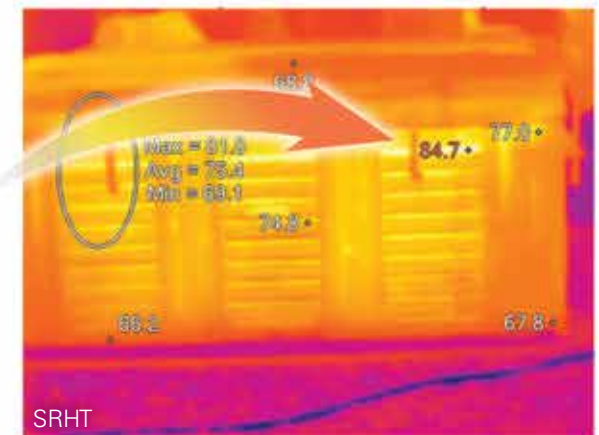
Rival Hot Tub
94°F



Rival #2 Hot Tub
89°F



Rival #3 Hot Tub
84.7°F



Full foam hot tub problems



Miles of plumbing
on a regular hot tub

Hot tubs have a vast plumbing network, it's only a matter of time before a gasket, seal, or fitting gives way. So the easier it is to access this network the better. Without compromising the integrity of the hot tub and making a mess of your backyard.



Tough to find leaks
in a full foam hot tub

In due course, as a hot tub owner you will have to deal with a leak and if your hot tub has a full-foam filled cabinet this presents a messy access (dig) through soggy foam until you find the leak source.



Archeological dig in
the backyard

If you have a hot tub with full-foam insulation you begin your search for the leak removing any wet foam that you see until you find the source of the leak. Once you've discovered the source of the leak you can then fix the issue. Followed by a messy clean-up and the aggravation of having to do this or hiring a spa company to do this for you.

Experience the difference with a Hydropool Hot tub

Energy Efficiency beyond compare

One of the most frequent questions we're asked is around the cost to keep your hot tub at those ideal temperatures (around 100° F/37° C).

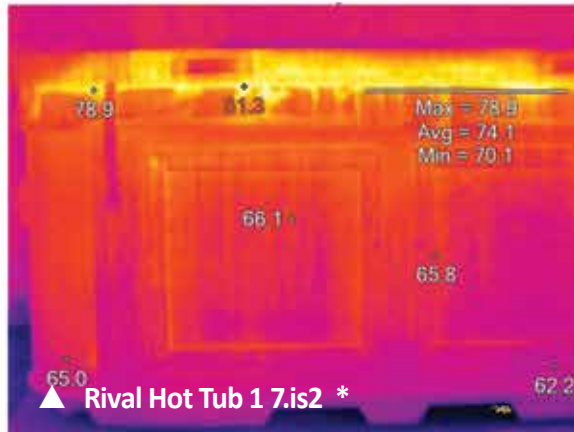
Well, thanks to our innovative HydroWise Thermal Shield Energy Efficient Insulation along with our superior 4 inch HydroWise Hard Cover, we've mastered the art of keeping the heat in and the cold out. Combine this with the fact that our hot tubs are engineered to be the most energy efficient in the world, that means you can enjoy your hot tub for just pennies a day.



PERIMETER FOAM Thermal Imaging

Rival Competitor 1, Brampton, Ontario

What is perimeter insulation in a hot tub?
This is a method of foam insulating a hot tub that only puts foam insulation around the perimeter (walls) of the cabinet and floor leaving an air cavity from between cabinet wall all the way to the shell.



Rival Competitor 1, Brampton, Ontario



Perimeter Foam Hot Tub Problems



No support for plumbing.



Test of Rival's Heat Lock System with a 90 second smoke bomb. Notice the amount of steam escape.



Summer Panel our Rival recommends at least two of these for summer use. \$100.00 each.

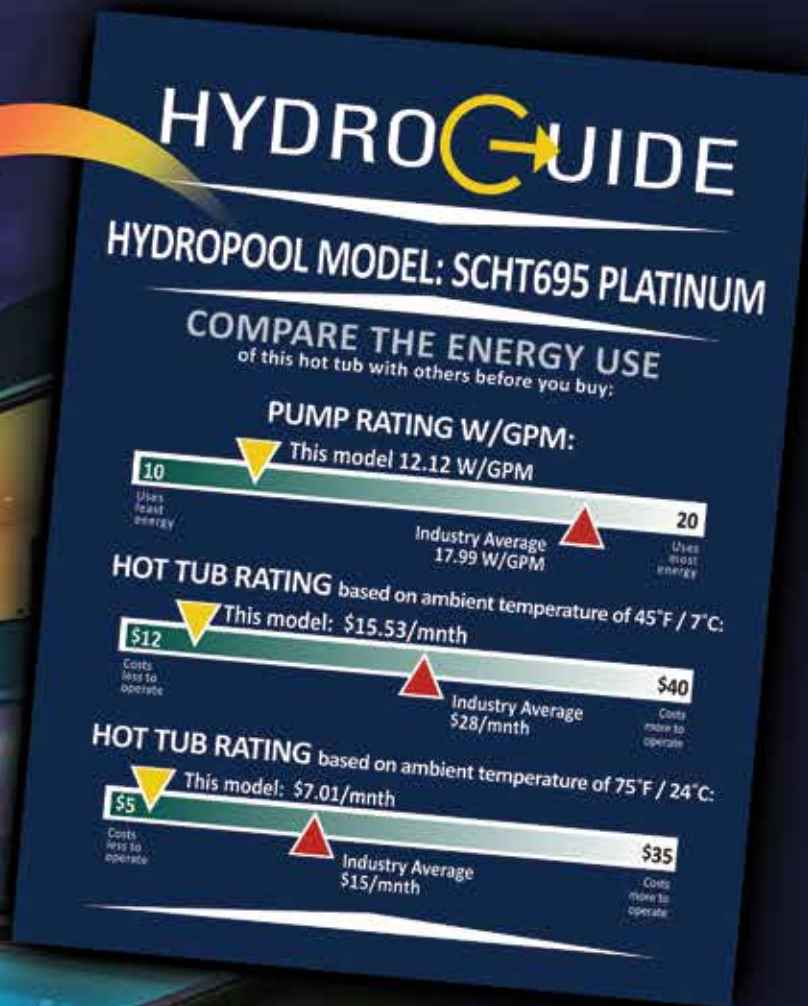
(Normally sold after a over heating service call)

The issues with perimeter insulation in a hot tub start with the creation of leaks due to plumbing support issues. The gaps in cabinet panels allow heat to escape. The hot tubs equipment and motor needs to breathe and without vents equipment overheats and can lead to pump failure.

3. Save money with our low energy pumps

Our Evergreen Pumps have been designed to produce more GPM with less wattage.

Look for this sticker on our Hydropool Self-Cleaning Hot Tubs it shows a sliding scale that shows the industries range of hot tub pumps measured in watts/100 Gallons. This scale shows that Hydropools Pumps are some of the most efficient in the industry.



Designed To exceed the state of California regulations

Energy Use Analysis at an ambient temperature of 45F and 75F. The rating is based on the price per kw in Ontario, which means that the scale and costs will differ in different parts of the world.



HYDROGUIDE		
SELF-CLEANING MODEL 395 GOLD		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$13.95	
HIGH: 75° F / 24° C	\$6.30	
N. American: Wattage/gpm: 14 W European: Wattage / (m³/s): 33.67 W		



HYDROGUIDE		
SELF-CLEANING MODEL 495 GOLD		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$14.66	
HIGH: 75° F / 24° C	\$6.62	
N. American: Wattage/gpm: 15 W European: Wattage / (m³/s): 49.85 W		



HYDROGUIDE		
SELF-CLEANING MODEL 570 GOLD		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$14.72	
HIGH: 75° F / 24° C	\$6.65	
N. American: Wattage/gpm: 15 W European: Wattage / (m³/s): 50.23 W		



HYDROGUIDE		
SELF-CLEANING MODEL 670 GOLD		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$15.53	
HIGH: 75° F / 24° C	\$7.01	
N. American: Wattage/gpm: 15 W European: Wattage / (m³/s): 51.25 W		

HYDROGUIDE		
SELF-CLEANING MODEL 495 PLATINUM		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$14.66	
HIGH: 75° F / 24° C	\$6.62	
N. American: Wattage/gpm: 12.07 W European: Wattage / (m³/s): 47.70 W		

HYDROGUIDE		
SELF-CLEANING MODEL 570 PLATINUM		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$14.72	
HIGH: 75° F / 24° C	\$6.65	
N. American: Wattage/gpm: 12.07 W European: Wattage / (m³/s): 47.85 W		

HYDROGUIDE		
SELF-CLEANING MODEL 670 GOLD		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$15.53	
HIGH: 75° F / 24° C	\$7.01	
N. American: Wattage/gpm: 12.12 W European: Wattage / (m³/s): 47.97 W		



HYDROGUIDE		
SELF-CLEANING MODEL 695 GOLD		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$15.53	
HIGH: 75° F / 24° C	\$7.01	
N. American: Wattage/gpm: 15 W European: Wattage / (m³/s): 51.25 W		



HYDROGUIDE		
SELF-CLEANING MODEL 720		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$17.63	
HIGH: 75° F / 24° C	\$7.96	
N. American: Wattage/gpm: 12.12 W European: Wattage / (m³/s): 47.97 W		



HYDROGUIDE		
SELF-CLEANING MODEL 770 PLATINUM		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$17.63	
HIGH: 75° F / 24° C	\$7.96	
N. American: Wattage/gpm: 12.12 W European: Wattage / (m³/s): 48.00 W		



HYDROGUIDE		
SELF-CLEANING MODEL 790 PLATINUM		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$19.52	
HIGH: 75° F / 24° C	\$8.82	
N. American: Wattage/gpm: 12.35 W European: Wattage / (m³/s): 48.20 W		



HYDROGUIDE		
SELF-CLEANING MODEL 970 TITANIUM		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$23.75	
HIGH: 75° F / 24° C	\$10.73	
N. American: Wattage/gpm: 12 W European: Wattage / (m³/s): 47.50 W		

HYDROGUIDE		
SELF-CLEANING MODEL 695 PLATINUM		
This hot tub meets or exceeds the energy efficiency standards defined by the state of California.		
AMBIENT OUTDOOR TEMPERATURE:	MONTHLY COST:	
LOW: 45° F / 7° C	\$15.53	
HIGH: 75° F / 24° C	\$7.01	
N. American: Wattage/gpm: 12.12 W European: Wattage / (m³/s): 47.97 W		

HydroGuide Hot Tub Evergreen Pump Analysis:

AQF XP2e PUMP EFFICIENCY / SPA MODEL:

MODEL	NA	EURO
2021	W/gpm	W/(m ³ /s)
SERENITY HOT TUBS		
4300	14.74	50.23
4500	14.74	50.23
5900	12.12	48.21
6600	14.74	50.23
6800	12.12	48.21
6900	12.12	48.92
SELF-CLEANING HOT TUBS		
395 Gold	14	49.00
495 Gold	15	49.85
495 Platinum	12.07	47.70
570 Gold	15	50.23
570 Platinum	12.07	47.85
670 Gold	15	51.25
670 Platinum	12.12	47.97
695 Gold	15	51.25
695 Platinum	12.12	47.97
720 Platinum	12.12	47.97
770 Platinum	12.12	48.00
790 Platinum	12.35	48.20
970 Titanium	12	47.50
AVERAGE	13.24	48.98

When looking for a hot tub that is energy efficiency start with the overall construction, then the type of insulation used, look at the filtration, the pump system and heater. Does the hot tub have a well designed hard cover and because hot tubs are not used for the majority of the time - what are the costs to maintain the heat, even when not in use. All of these factors directly affect its energy efficiency.

HYDROGUIDE

COMPETITOR ANALYSIS

BRANDS / MODEL:	North America W/100 Gallons:	Europe W/Cubic Metre:
Coast Luxury Series	19.92	71.17
Dynasty Spas - Paramount TV Spa	16.96	60.63
Sundance Spas - Maxxus	16.78	59.89
Jacuzzi Spas - J-470	17.19	61.43
Hot Spring - Envoy	17.19	58.71
Artic Spas - Summit	22.35	79.86
Cal Spas - D1870	16.77	59.89
Beachcomber 740	16.77	59.89
AVERAGE:	17.99	63.93
HYDROPOOL AVERAGE:	13.24	48.98
MODEL COMPARISON:	N. America (%)	Europe (%)
HYDROPOOL VS. THE COMPETITION:	26.4% MORE EFFICIENT	23.4% MORE EFFICIENT

Take the time to compare
you will save in the long run

Sound Levels

What creates increased noise levels...

- Hot tub equipment is not housed behind the insulation but just behind the cabinet.
- Oversized equipment, too much power for the number of jets in the design.
- Too much horsepower; extra volume of water with no extra hydrotherapy benefit due to the fact that there is only a maximum amount of water the pipes can handle at any given time.
- Also having the equipment on the outside of your hot tub may provide better access, but it comes at a loss of peace and a cost in energy efficiency.

Keep in mind these levels to understand just how loud these hot tubs are in comparison.

Jet engine at 100.....	140dB
Sandblasting, Loud Rock Concert.....	115dB
City Traffic (inside car).....	85dB
Telephone dial tone.....	80dB
Normal conversation at 3'.....	60-65dB
Whisper Quiet Library at 6'.....	30dB

Here Are The Results...

The testing of these hot tubs was done in a side-by-side comparison with proper professional sound testing equipment; each hot tub was tested with the Cover off and for an equal amount of time.

1) Hydropool Self-Clean Hot Tub

Equipment behind Insulation, Self-Clean Floor Vacuum with Optimized Surface Filtration.

Low

(Circulation & Self-Clean Mode On)

Sound level at 3 ft.: 41 dB

Sound level at 20 ft.: 39.8 dB

High (All Pumps On)

Sound level at 3 ft.: 58.1 dB

Sound level at 20 ft.: 51.7 dB

2) Competitor No1 (DYHT)

Major USA Manufacturer

Equipment behind Cabinet Only, Suction Filtration Grate Style.

Low (Stand By Mode)

Sound level at 3 ft.: 52.6 dB

Sound level at 20 ft.: 47.1 dB

High (All Pumps On)

Sound level at 3 ft.: 63.7 dB

Sound level at 20 ft.: 60.6 dB

3) Competitor No2 (HSHT)

Major USA Manufacturer

Equipment behind Cabinet Only, Vertical Suction Side Filtration with Multiple Filters.

Low (Stand By Mode)

Sound level at 3 ft.: 41.8 dB

Sound level at 20 ft.: 40.2 dB

High (All Pumps On)

Sound level at 3 ft.: 67 dB

Sound level at 20 ft.: 64.8 dB

4) Competitor No3 (CNHT)

Chinese Manufacturer

Equipment behind Cabinet Only, Lily Pad Suction Side Filtration.

Low (Stand By Mode)

Sound level at 3 ft.: 52.1 dB

Sound level at 20 ft.: 50.5 dB

High (All Pumps On)

Sound level at 3 ft.: 67.4 dB

Sound level at 20 ft.: 65.7 dB

5) Competitor No4 (SDHT)

Major USA Manufacturer

Equipment behind Cabinet Only, Horizontal Suction Side Filtration.

Low (Stand By Mode)

Sound level at 3 ft.: 48.7 dB

Sound level at 20 ft.: 47.6 dB

High (All Pumps On)

Sound level at 3 ft.: 64.8 dB

Sound level at 20 ft.: 62.8 dB





HYDROPOOL
hot tubs • swim spas

THE WATER IS CALLING.

Hydropool Inc.

Tel: 905.565.6810

Toll Free: 1.800.465.2933

Fax: 905.5656820

Email: info@hydropoolhottubs.com

Your Authorized Hydropool Retailer is: