

# Harnessing Hydraulic Harmonics

A Natural Way to Purify Water !



## Hydraulic Harmonics Technology History

- Originally developed for the oil industry – at a cost of \$20 million – to clean wastewater from drilling operations
- Inventor Gary Powell forms partnership with Randy Sellers to market technology – 2015
- Polar Vortex – a device to increase snow production is released – 2016
- Pool Tiger – a device to purify water in swimming pools is released – 2017
- Currently in development:
  - System to purify consumable water in homes, multi-unit housing & hotels
  - Device to remove scaling and organic debris in cooling towers

Pool Tiger dealerships located in Oklahoma, Texas, Florida, California & Hawaii



## Pool Tiger Features & Benefits – page 1

- 100% Natural Process – no electricity or chemicals  
Environmentally friendly
  - Kills bacteria\*, algae, viruses & parasites  
Reduces chlorine/bromine use by up to 85%
  - Balances pH and controls acids  
Reduces risk of disease
  - Eliminates suspended particles  
Maximizes water clarity and reduces buildup on pool walls
  - Activated by flowing water driven by the pool pump  
Costs nothing to operate
  - Requires no maintenance, assembly or replacement parts  
Completely hassle-free
- Diagram illustrating the benefits of Pool Tiger:
- Cost Savings (linked to: 100% Natural Process, Kills bacteria\*, algae, viruses & parasites)
  - Labor Savings (linked to: Eliminates suspended particles, Activated by flowing water driven by the pool pump, Requires no maintenance, assembly or replacement parts)

\*Including Legionella, which expires at 158 degrees F

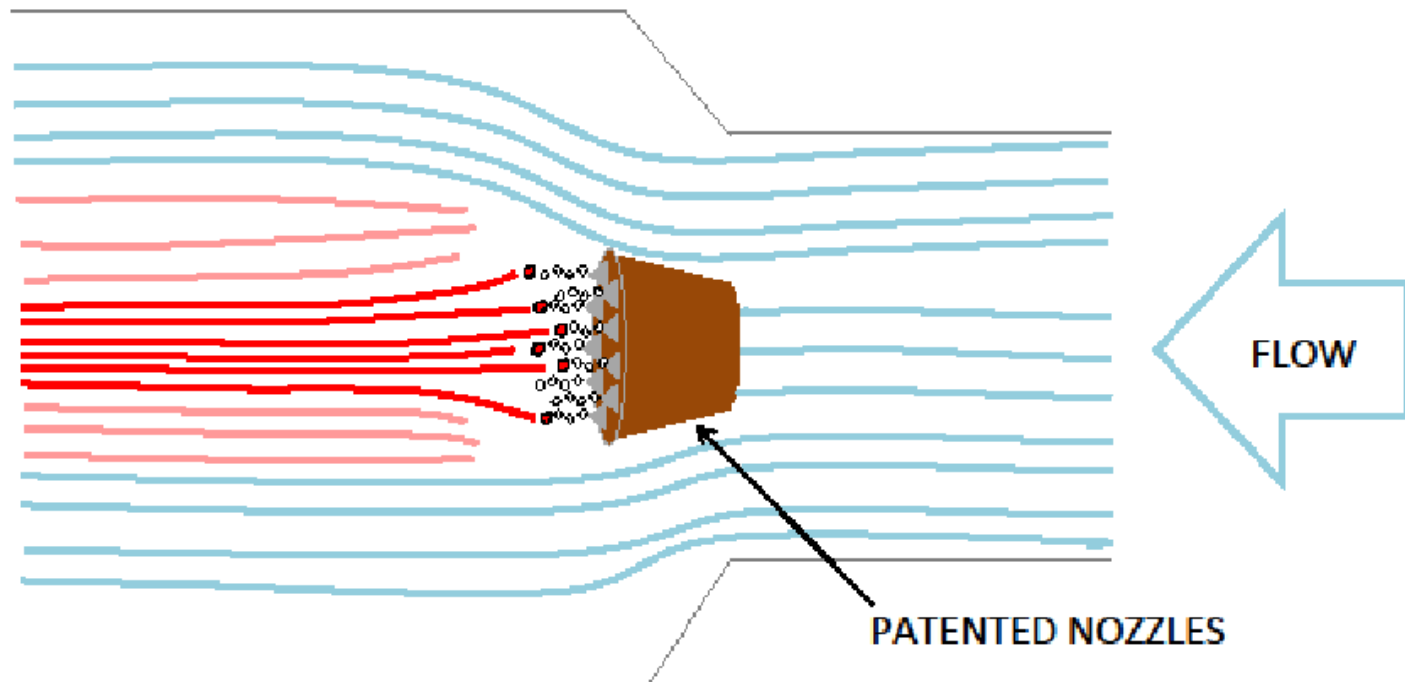


## Pool Tiger Features & Benefits – page 2

- Eliminates all traces of bodily wastes and toxic organic compounds  
Creates cleaner, healthier water
- Breaks down algae cell walls  
Prevents regeneration
- Infuses water with negative ions  
Triggers the release of Serotonin in the body –  
Improves mood, focus, energy, sleep and digestion  
Moisturizes skin  
Virtually eliminates chlorine/bromine odor  
Gently scrubs pool surfaces & forms a protective barrier
- Reduces liability for outbreaks of disease  
Exceeds “reasonable person” requirements
- Carries a 5-year non-prorated warranty  
Tops all other purifiers



## Hydraulic Harmonics – How Pool Tiger Works

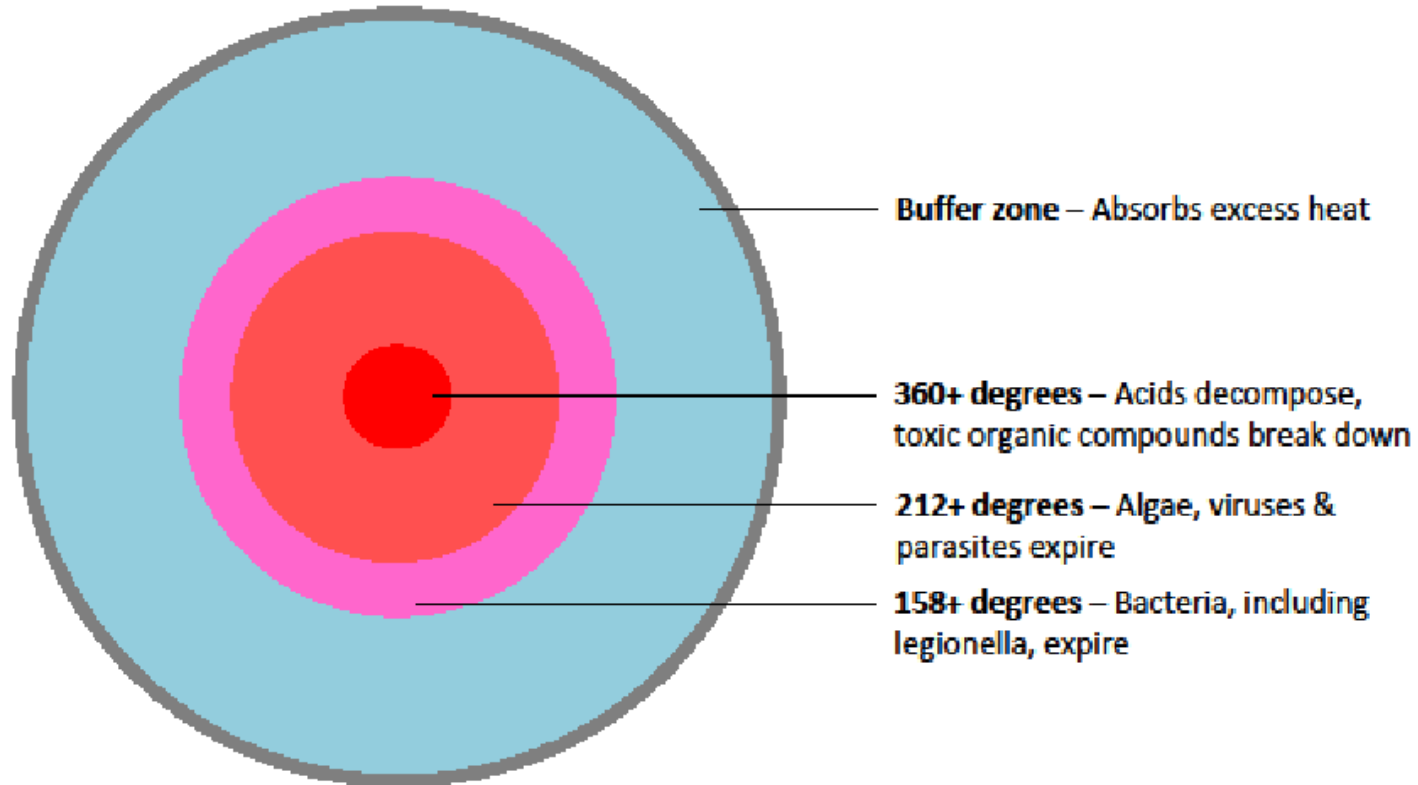


A portion of the water that enters the chamber is channeled into specially designed nozzles that convert water to water vapor.

Upon exiting the nozzles the vapor bubbles collapse and revert back to water. This instantaneous dual conversion creates a heat signature and a harmonic signature.



## Heat Signature – Dissipation Strata

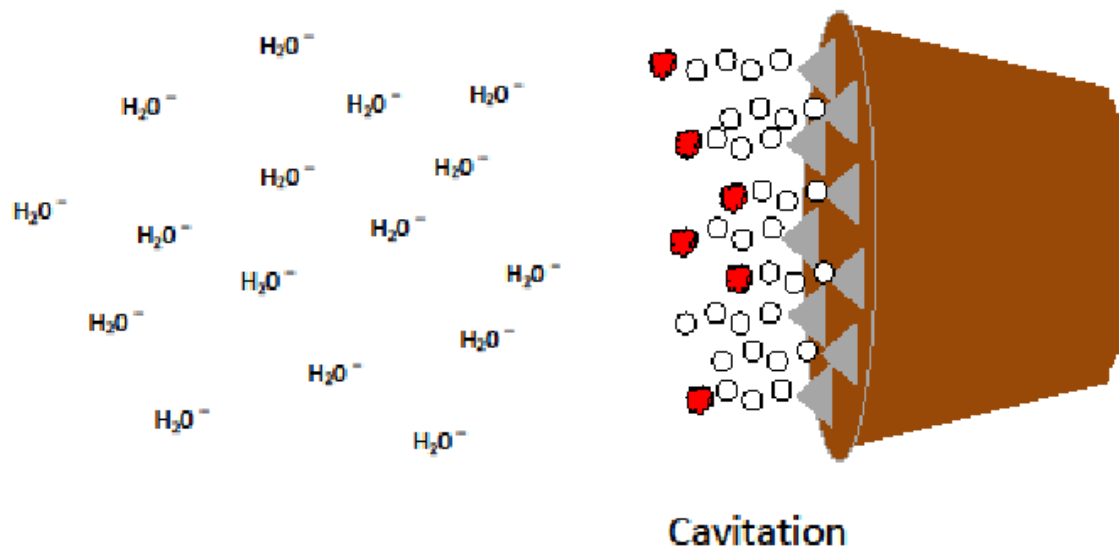


Pool Tiger is designed with a specific ratio of nozzles to chamber volume to effectively kill contaminants, control acids and eliminate toxic organic compounds without affecting pool temperatures.



## Cavitation & Negative Ions

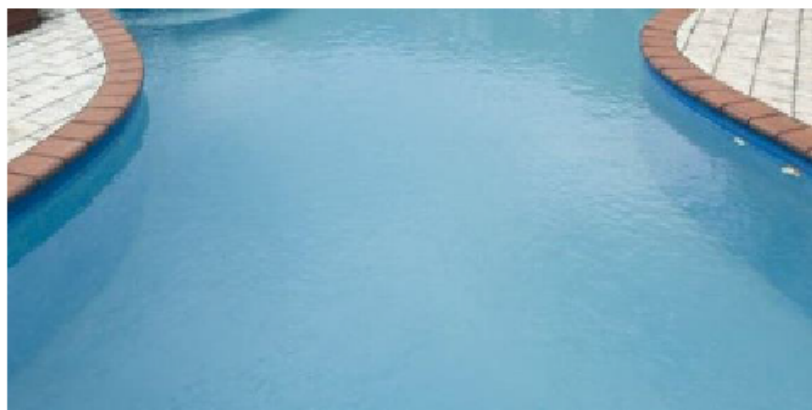
The rapid formation and collapse of water vapor bubbles not only creates heat but also negatively charges water molecules. These molecules, called “negative ions,” are highly kinetic.



Cavitation infuses water with negative ions. This process also imparts a negative charge to suspended particles.



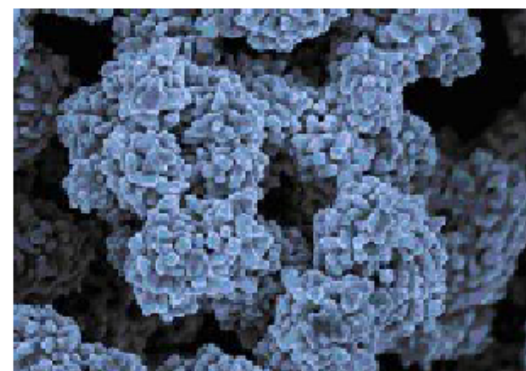
## Agglomeration (aka Flocculation)



Suspended particles

- a. make pool water look cloudy
- b. build up on pool walls

Not a Pool Tiger Pool!



Agglomeration

Most particles are too small to be captured by the filter. Imparting a negative charge to particles causes them to attract one another so they agglomerate. Once the agglomeration reaches sufficient size, it is easily captured.

Eliminating suspended particles = Clear, sparkling water





# Negative Ions

Why Swimming in a Pool Tiger Pool makes you feel better and look younger

$H_2O^-$

- Easily absorbed
- Natural moisturizer
- Natural exfoliator
- Triggers the release of Serotonin

Serotonin improves

- Mood
- Energy level
- Focus
- Sleep
- Digestion
- Organic function



Negative ions not only make swimmers look and feel better, they also serve to clean and protect the swimming pool itself.



# How Negative Ions Clean and Protect Pool Surfaces

## Cleaning

Negatively charged water molecules are highly active and serve to gently scrub away buildup on pool walls. They are also able to permeate buildup and displace the particles, salts, minerals and even algae roots that have accumulated. These properties significantly reduce the need to brush .



**Reduces Brushing  
&  
Protects Pool Surfaces**

## Protection

In outdoor pools negative ions accumulate at pool walls and form a highly ordered water state known as the Exclusionary Zone. The EZ repels suspended particles, salts, minerals and even algae.



## What Our Customers Are Saying About Pool Tiger

Randy, I have to share a conversation with you I just had with Gloria. She just called telling me about this pool she's been taking care of for a couple of months and it's always been cloudy and it's never really been clear no matter what she did – I could hear the excitement in her voice when she told me she put a Pool Tiger on it about a week ago and when she walked in there this afternoon she said the water so clear, and I'll quote her, "It didn't even look like there was water over the steps – it looked like air."

– Mike Esmond, owner Gulf Breeze Pools

The Resident Manager at Kuilima Estates West currently has three pools he has installed this device on. In 2017 he spent over \$17K in chemicals to keep his pool clean. Since installing this device (approximately 3 months ago) he has spent a little over \$400.

– Gene Peles Director, Management Executive Hawaiiana Management Company, Limited

We first tried the Pool Tiger out about a year ago. We had a test pool; we did our research on it. We were having trouble with it – it's a pool and spa – and we couldn't keep the algae out of it no matter what we did to it. We put a Pool Tiger on it and in about 3 days the pool cleared up. Sparkling clear. We've used very little chlorine since then. And we tried it on a couple other pools we were having trouble with, another unit and another unit. So now we're ready this spring to get aggressive with the units and put them on more pools...they're a great company to work with. They're doing a great job. Their customer service is good...and we look forward to working with them.

– Jim Schaubsluger, owner J&S Pool & Spa Service



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