
Sent: Wednesday, August 17, 2011 3:14 PM

Subject: FORUM Q & A UPDATE: WHAT IS WATER HAMMER ? ...FEEDBACK...SOLUTION

Dear Aquathin Dealer OnLine;

[WHAPR.JPG](#)

[WHAPR.TOPVIEW.JPG](#)

We received some pretty terrific feedback on this water hammer Q&A. My friend Dr. Jean Marie Danze, Authorized Dealer in Belgium for over 20 years reports [Dear Alfie, I have had some months ago such a "bump" in a house using an AQUALITE. Two times on the same week, the gauge "to feed" leaked. When controlling the water supplying with a manometer, this revealed peaks of 50 Bar. It was enough to destroy two gauges. I engaged the customer to insert a pressure stabilisator at 5 Bar. Now it is perfect. With our best regards, Jean-Marie] NOTE: 50 Bar = 710psi !!!

My friend Jim Williams, agent for Aquathin UK in Scotland stated [Good Evening Alfie, This is a wonderful article for all installers, it is not uncommon for plumbers in Scotland for e.g to ignore manufacturers recommendations when it comes to installation work on HW pressure systems or even Electric Shower Installs, first thing you should do is test the water pressure, they don't. This is a wonderful article it's excellent, as is all the information you provide Alfie, knowledge is a wonderful thing, your words, keep up the excellent work. Warm regards, Jim]

And my friend David Waddell, Authorized Dealer and licensed plumber in Charlotte, North Carolina (& raised on Aquathin!) wrote [Hello Alfie and crew, To protect against water hammer there are a few options that may be of benefit to both the Aquathin Dealer and homeowner. You are likely aware of these options, but for the sake of making sure I thought I would share them. There are water hammer arrestors available that have an enclosed piston which absorbs the hammer like a shock absorber. Another more common method is the "air chamber", which is basically a tee at the fixture being served that extends the piping upwards 18 or more inches and terminates with a cap. The pipe size of the chamber is typically two pipe sizes larger than the diameter of the supply line. For a 1/2" pipe, a 1" air chamber would be constructed at minimum. (general rule of thumb)]

NOTE: A component of David's recommendation is integrated into the Aquathin WHAPR, and actually has been listed in the Planner for about 10 years, now on page 35. Lower box, Model WHAPR – POE Water Hammer Arrestor Pressure Regulator. We began making the device initially for Aquathin De Puerto Rico where some of the countryside residents had

both hammer and back siphon issues (resulting in collapsed MegaChar and Soft & Clean tanks). See attached pic from inlet > outlet that includes reverse acting check valve to break siphon, Spin Down Filter to collect sediment, air chamber / tower, and brass pressure regulator preset at 75 psi. 2nd pic displays the air fill plug atop tower...once every couple years, shut off water to house, unscrew plug in center of tower cap, allow water to drain from tower, re-insert plug thus capturing new air damper.

I LOVE MY AQUATHIN ! AND REMEMBER, THE NEXT BEST THING TO OWNING AN AQUATHIN IS RECOMMENDING ONE TO A FRIEND !!

Let me know what you AquathinK !

Warmest regards to all...as well, your comments are always welcome and very much appreciated.

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Alfred J. Lipshultz
President & CEO

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From: AQUATHIN TECH SUPPORT [mailto:TECHSUPPORT@AQUATHIN.COM]

Sent: Thursday, August 11, 2011 2:05 PM

To: Info@Aquathin.Com (info@aquathin.com)

Subject: FORUM Q & A: WHAT IS WATER HAMMER ?

Dear Aquathin Dealer OnLine;

Water Hammer is often the causative culprit phenomenon of pressure oscillation that occurs in pipes creating a sound similar to someone hammering on a pipe...and can be quite damaging...including splitting POE filter or softener tanks, or causing shifts in GAC beds resulting in carbon fines downstream.

Click http://downloads.vertmarkets.com/files/downloads/918f236a-129e-470b-ac57-d565be53bb65/bkr_whitepaper_waterhammer.pdf to read a detailed description of cause and effect...and how hammer can

exceed **500 psi !!!**

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Alfie

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