



## Vesta H<sub>2</sub> FAQ's

### How does the performance of the Vesta H<sub>2</sub> compare to the old Vesta?

The [Vesta H<sub>2</sub>](#) has been part of AlkaViva's ionizer line-up since May 2015, and most simply put, the performance is AWESOME. It has an approximately 30% stronger ORP than the old Vesta – which was already the strongest ionizer we have tested. On Reno tap water, which is typically fairly soft, the old Vesta would produce approximately -380mv ORP on the highest setting and at full flow. On the same water and settings, the Vesta H<sub>2</sub> produces greater than -600 ORP at full flow.

At the highest setting and full flow, the Vesta H<sub>2</sub> produces about the same H<sub>2</sub> as the old model – but does so with a 20% faster flow making it very user friendly. Of course, you can increase hydrogen production (just like ORP production) by slowing the flow. The really important point to note is that the Vesta H<sub>2</sub> produces the best ORP and H<sub>2</sub> results, while maintaining a lower pH. Other ionizers must hit very high pH (generally over 10 pH) to maximize –ORP and H<sub>2</sub>. We think the lower pH approach is safer health-wise and certainly makes for great tasting water.

By using less power and the automatic DARC cleaning system, the Vesta H<sub>2</sub> is safeguarded against plate deterioration and performance is sustainable over time. Another really important new feature is the ability to achieve very low pH acidic water. On Reno water, we can achieve a pH 4 on Acid Level 2. With the ionizer on Alkaline 5 and on slow flow, we can achieve a red color with the included reagent out of the drain tube. This is a huge upgrade and an important benefit.

### How many plates or electrodes does the Vesta H<sub>2</sub> have?

Like the original Vesta, the Vesta H<sub>2</sub> is a nine plate ionizer. It is engineered around a new water cell with 9 *SmartDesign* electrodes. The resulting performance upgrades, as previously mentioned, are better acidic, better -ORP, better H<sub>2</sub> production and a 20% faster flow rate.

### What is *SmartDesign*?

*SmartDesign* electrodes use state of the art engineering and manufacturing to be super-efficient at lower power. We have found the higher the power density used in ionization, the less H<sub>2</sub> stays in the water. To get the benefit of H<sub>2</sub> it has to dissolve in the water. In addition to performance, running lower power stresses the plates less, which leads to increased durability and performance – especially over time.

### Are the electrodes solid or mesh? Are they dipped or electro-plated?

*SmartDesign* electrodes are the most advanced solid plate design. They are optimized specifically for efficiency. To achieve the greatest efficiency, they are electro-plated using a process similar to all our other plates.

### **How does the Vesta H<sub>2</sub> DARC cleaning work?**

This is a critically important point in regard to H<sub>2</sub> performance. *Double Automatic Reverse Cleaning* or DARC has proven to keep plates clean and therefore performance high – especially over time. This is another huge selling feature. DARC cleaning is also known as "Reverse Polarity" cleaning. Each electrode has either a positive or negative polarity. Reverse polarity simply switches the charge which repels anything that is sticking there. By reversing the alkaline and acidic water flow over the plates, a washing or "bathing" of the electrodes in acidic water takes place. This is the *only* effective way to clean scale.

### **Does the DARC cleaning system keep my tubes and flex hose clean?**

No. DARC cleaning is an internal process only designed to eliminate mineral scaling *inside* of your ionizer cell. Cleaning for the tubing and flex hose depends on the hardness of your source water. For guidelines in your area, follow the pre-filtration recommendations outlined in the [Hard Water Test Strip Instructions](#). It is also recommended that you run acidic water through the ionizer for 3-5 minutes weekly to help clean scale from tubing/hose. If you notice any slowing down of the water flow rate through your ionizer, then a [vinegar flush](#) is also recommended for cleaning mineral buildup.

### **What are the plates made of?**

*SmartDesign* electrodes are the highest grade platinum and titanium available. The raw materials come from Japan.

### **Does the Vesta H<sub>2</sub> have any certifications?**

The Vesta H<sub>2</sub> actually carries more certifications than the old Vesta. The certification logos are right on the [web page](#).

### **What about the filtration?**

The filters are at least equivalent to our BioStone Plus filters in performance. At this time, onboard UltraWater filters are not available for the Vesta H<sub>2</sub>. There is however an [external UltraWater filter](#) available at no additional charge. We will be developing onboard UltraWater filters for the Vesta H<sub>2</sub> in the future and will announce the release. They will be compatible, and customers can upgrade seamlessly to UltraWater filters once they are available.

### **Does the Vesta H<sub>2</sub> come with on-board UltraWater filtration?**

Not at this time. However, the Vesta H<sub>2</sub> is available in all shopping carts with, or without UltraWater (using an external filter and housing) at no additional charge.

### **Do we have test results on the factory filters?**

Yes we do have results. Please see <https://www.alkaviva.com/pdf/H2-Series-test-results.pdf>

### **Do the filters add any minerals to the water?**

No. The filters do contain a small amount of CaSO<sub>3</sub>, or calcium sulfite, the same as in all our filters. It is in the media formulation for chlorine/chloramine and some heavy metal reduction. It is industry standard.

### **What is the filter life?**

Each filter is individually rated for a capacity of 1,000 gallons (filtered acidic and alkaline water combined)

### **Does the Vesta H<sub>2</sub> have a mineral port?**

Yes, it is located in the filter. It accepts the same Scale Guard and Calcium baskets as the old model. These are not included with the Vesta H<sub>2</sub> and can be ordered separately. In most cases, the scale guard basket is not needed when the EOS Scale Guard filter is used.

### **Do the Vesta H<sub>2</sub> filter counters count at the same rate?**

Yes. Unlike our old model, that counted water flow at different rates (customers had to replace the filters at different intervals) the new one counts at the same rate, and the filters are replaced at the same time. This is a huge upgrade in customer experience!

### **Do the Vesta H<sub>2</sub> filters get replaced at the same time?**

Yes. This upgrade in customer experience cannot be understated.

### **What are the dimensions and weight?**

The full specifications are on the website. The Vesta H<sub>2</sub> is approximately the same size as its predecessor. Because it uses a new, advanced SMPS system, it is approximately 30% lighter.

### **Can the Vesta H<sub>2</sub> be installed under sink?**

Yes. [Undersink Kits](#) are available in both polished chrome and brushed nickel finish.

### **What is the price of the Vesta H<sub>2</sub>?**

While we have made significant improvements to the Vesta H<sub>2</sub>, we have been able to maintain the current pricing model. Customers will get a substantially upgraded machine that is more market relevant (especially since it produces a good hydrogen level) for the same price as our previous Vesta model!

### **Where is the Vesta H<sub>2</sub> manufactured?**

Like our other ionizers, the plates originate in Japan and final assembly of the ionizer is done in South Korea.

### **What are the selling features of the Vesta H<sub>2</sub>?**

All of the features are highlighted on the [Vesta H<sub>2</sub> webpage](#). It can be found the same way the Vesta was – through the main navigation or shopping cart.