

# AQUAREX™ HAS DONE THIS FOR PROPERTIES IN LAS VEGAS!

## AQUA-REX INSTALLED IN THE COSMOPOLITAN HOTEL



The Cosmopolitan Hotel was constructed without any water softeners except in the kitchens for the dishwashers. After some earlier trials Aqua-Rex units were supplied in August 2012 to be installed on the plate and frame heat exchangers supplying hot water to both towers and the low rise. Subsequently additional units were installed on the recirculation loops in the towers following which it was found that scale could be brushed away from the work tops around the faucets leaving them completely scale free. The total installed cost of all the units was less than \$100,000. No issues caused by scaling have occurred in the property on the areas treated by Aqua-Rex since they were installed. This contrasts with similar properties nearby where scale issues have been a constant problem.

## AQUA-REX CAN DE-SCALE VALVES IN PLUMBING SYSTEMS



badly scaled valve  
Feb 2009



11 weeks after Aqua-Rex  
was installed



completely scale free valve  
Dec 2014

A typical butterfly valve from a luxury hotel hot water supply which was so badly scaled it couldn't be operated. For a trial evaluation it was re-installed on a cold water line fitted with Aqua-Rex. After eleven weeks the scale had broken away from inside the valve and fallen out. The scale broke down into fine particles and was carried away in the flow without causing any downstream damage. This 2,500 room hotel tower was fitted with Aqua-Rex in 2011. In December 2014 a similar valve from the hot water supply system was removed and found to be completely scale free.

## WHAT IS AQUA-REX AND HAS IT BEEN TESTED?



Aqua-Rex is NOT a magnet nor an electro-magnet. Aqua-Rex is a radio transmitter that puts ultra high frequency radio waves into the water which travel in the water in both directions, upstream and downstream. The radio waves change the structure of the iron (Fe) molecules to form nucleation seeds so the scale sticks to them instead of the surfaces where it would normally go. The scale forms as a non-adhesive powder in suspension instead of encrusting surfaces. The radio waves also create a resonance that breaks up existing scale so over a few weeks a plumbing system can be completely cleaned of old scale. The nucleation seeds also stimulate scale formation so there is less dissolved calcium in the hot water which is softer than it would otherwise be.

Aqua-Rex has been independently tested by IAPMO R & T Labs using the IAPMO protocol IGC 335 -2018 Rapid Scaling Test. The results showed that the Aqua-Rex WK1-E could reduce scaling by 83% in Las Vegas water heated to 180 deg. F for 23 hours.

Aqua-Rex units have aerial wires that are wrapped around existing pipework. They are quick and simple to install, requiring no plumbing, no shut down or other disruptions. For further information download the Specifier Guide from our website [www.aqua-rex.com](http://www.aqua-rex.com). Remember Aqua-Rex comes with a no quibble, no condition money back guarantee. You have nothing to lose but your limescale!



# REPLACES WATER SOFTENERS AT THE PANORAMA TOWERS



The Panorama Towers is a twin, 33 story, 635 unit luxury condominium high rise just off the Las Vegas strip which opened in 2006. At the time of construction a total of four conventional water softeners were installed on the ground floor and top floor of each

tower to treat the hot water services. In early 2013 one of the softeners required extensive repairs and the management company decided to investigate the use of Aqua-Rex. A total of four Aqua-Rex units were installed in place of one of the softeners and an extensive evaluation program was carried out over the next six months.



In December 2013 the HOA approved the purchase of additional Aqua-Rex units to treat both towers to replace the softeners entirely. As well as treating the hot water, these units also treat the previously unsoftened cold water services. This means that scaling is reduced in mixing valves, shower heads and faucets, whereas previously

they all suffered from this problem. The residents thus enjoy less scale problems than previously.

The cost of the installation was around \$55,000 for both Towers using multiple Aqua-Rex in each pressure zone. The resultant savings in the first year of installation were calculated to be around \$168,000 and over three years the savings are anticipated to be in excess of \$500,000. No further expenditure for treating hard water is expected over the life of the building apart from electrical running costs of around \$200 per annum.

The property management company, First Service Residential, has decommissioned softeners and installed Aqua-Rex in four further Condominium properties in Las Vegas, The Martin, One Las Vegas, the Juhl and the Ogden.



## AQUA-REX TRIAL IN THE TREASURE ISLAND HOTEL

Aqua-Rex conducted a trial in the Treasure Island hotel tower installing a unit on the cold water services to the upper floors of the tower. The first picture shows the shower head in room 32020 on December 30th 2010 at the time the Aqua-Rex WK5 unit was installed. It is quite heavily scaled, both on the chrome ring and the centre section. Only an acid wash would remove this scale.

On January 26th 2011, a month later, the chrome ring was removed and wiped with a soft cloth. The residual scale came off with the cloth, leaving the ring virtually scale free.

The complete shower head is shown on March 29th looking like new after three months treatment from Aqua-Rex. The savings in chemicals and cleaning time by using Aqua-Rex are considerable plus the guest experience is significantly enhanced.



Dec 30<sup>th</sup> 2010



Jan 26<sup>th</sup> 2011



Mar 29<sup>th</sup> 2011