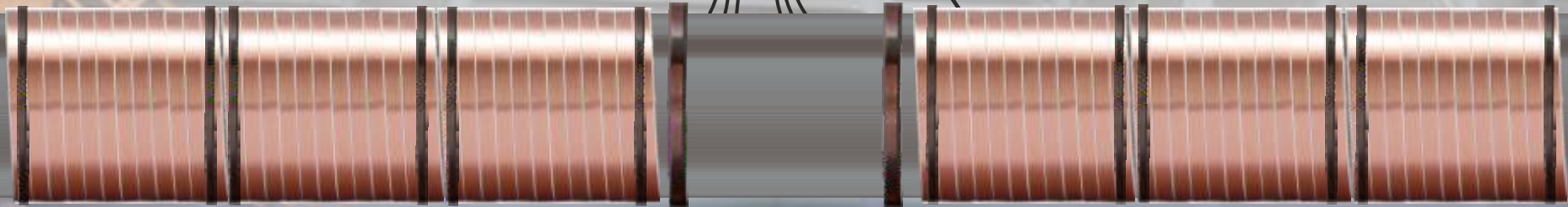




BRK Electronic Anti-Scale System



No Salt No Chemicals No Maintenance

Residential -Commercial -Industrial

Residential -Commercial -Industrial

BRK Electronic Descaling System Effects

BRK Electronic Descaling device is an eco-friendly water treatment system that protects your piping system and appliances against scale deposits and rust. The impulse technology modifies the crystallization of calcium and magnesium in the water. The crystals become smoother and can no longer attach to each other., that are created, the stronger positive effect of scale-prevention. Scale is now washed away in the water as a flakes and fine powder.

BRK Electronic Descaling device reduces the Surface tension in the water to a greater extent and increase the Dissolved Oxygen Levels to 6-8%.

As the by-products of the precipitation of **calcium carbonate** (CaCO_3) from the compound **calcium bicarbonate** ($\text{Ca}(\text{HCO}_3)_2$) in the water, the carbon dioxide is released into the water. Thus the released Carbon dioxide dissolved in unsaturated water (with much lesser amount of dissolved calcium ions) allows dissolving and softening old scale layers in the pipes, heating elements, heat exchangers etc.

- ▶ **Maximized life of production equipment**
- ▶ **Savings in cleaning and maintenance costs**
- ▶ **Increase in overall productivity**
- ▶ **More efficient use of energy consumption**
- ▶ **Reduction of chemical and salt costs**
- ▶ **No production loss during installation**
- ▶ **A fast pay-back of acquisition costs**



Prevents scale and rust

- **Eco-friendly solution without Salt or Chemicals**
- **Prolongs life of machinery and equipment**
- **Important minerals remain in the water**
- **Long life – fully cast in acrylic**
- **Reduction of existing scale in the Piping System**
- **Installation without cutting the pipe**
- **From 1" up to 40" pipe diameter**
- **Works on all pipe materials – iron, copper, plastic, stainless steel, PVC, compound pipes, PE-X, etc.**
- **100% maintenance-free**

1 year satisfaction Warranty.

10 Years replacement Warranty for Electronic Unit.

Total Solution to Hard Water Scaling

Cooling Towers / Chillers / Heat Exchangers



Application areas

Heat Exchanger
Injection Molding
Rubber production
Aluminium industry
Car industry
Textile industry
Hospitals
Food production
Refineries
Chemical manufacturing
Waste water treatment

History

The maintenance for these cooling towers previously involved continuous injection of descaling chemical cleansers. The use of these cleansers was discontinued over a year prior to the installation of the BRK Electronic descaling device. In that time, the cooling tower flutes became encrusted with both scale and biofilm. Throughout the time period described below, there were no cleaning procedures in place with these cooling towers besides the treatment provided by the descaling device.

Observations over time after the BRK Electronic Descaling device installation

After 15 Days, the green biofilm had begun to recede and gradually disappear.

After 25 Days the green biofilm had been further reduced and the scale deposits had begun to separate from the flutes in coin-sized flakes.

After 40 Days, the green biofilm had almost completely disappeared from the surfaces in contact with the BRK Electronic descaling device -treated water. The flakes of scale previously observed had fallen off in most places. The cooling tower flute surface area covered with scale deposits had been decreased by over 60%.

The Descaling device does not change the water quality beyond its affect on its propensity to cause scale buildup. The pH, conductivity, and turbidity remained relatively constant during observation from before the installation to over a month after.

Manufacturing and Marketing

BRK SYSTEMS ENTERPRISE GST : 33HWBPK2258G1ZN

No:107-2nd Floor, Dhivya Sabari Complex Subban Street, Thittasalai, Theni-625531. brksystems1@gmail.com. Contact:9842993606, 8667673112.

BEFORE

AFTER

Visible results of water treatment — before and after



24 VOLT

24 Volt Impulse-Technology
The water is treated with electric impulses that control scale in an eco friendly. It is an electronic system that is not magnetic-based.



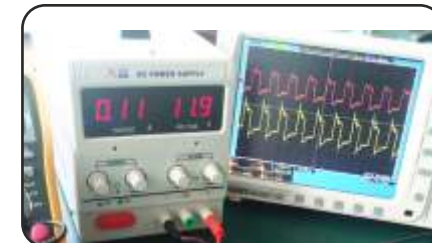
BRK Descaling Systems works on a frequency range between k5-64kHz with different frequency. The secret to the right performance of physical water treatment lies in the composition of these impulses.



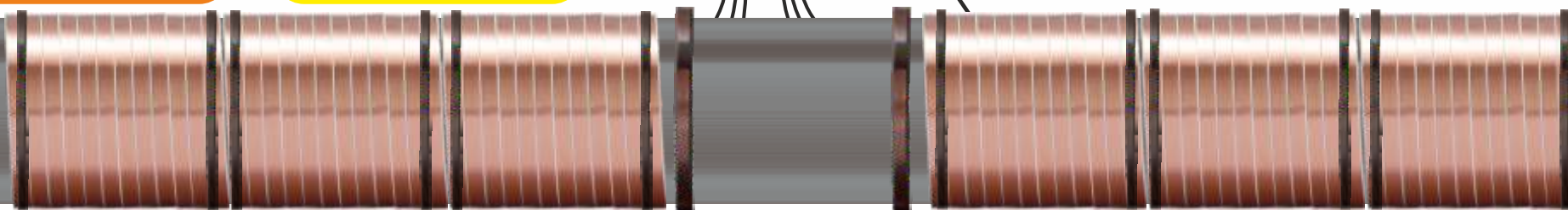
The automatic memory program keeps System running correctly. In case of the unlikely event of a power failure System automatically resets back to the last program once power is regained.



**BRK-Own R&D and
40+Years of
Expertise in
Electronics**



BRK SYSTEMS



Available Sizes

| Max.Pipe diameter | | 1" | 2" | 3" | 4" | 5" | 6" | 8" | 10" | 14" | 20" | 30" | 40" |
|-------------------|------------|---------|---------|---------|----------|----------|----------|----------|----------|----------|------------|-----------|-----------|
| | | (~38mm) | (~50mm) | (~76mm) | (~100mm) | (~125mm) | (~150mm) | (~200mm) | (~250mm) | (~350mm) | (~500mm) | (~750mm) | (~1000mm) |
| Max.Capacity | | 60 lpm | 140 lpm | 260 lpm | 520 lpm | 1200 lpm | 2120 lpm | 3000 lpm | 6000 lpm | 9000 lpm | 14,000 lpm | unlimited | Unlimited |
| Required space | | 250mm | 350mm | 500mm | 800mm | 900mm | 1200mm | 1800mm | 2500mm | 3500mm | 4600mm | 5600mm | 8500mm |
| Programs | | 1 | 2 | 4 | 4 | 6 | 10 | 10+ | 10+ | 10+ | 10+ | 10+ | 10+ |
| Volt | 24v or 12v | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Watts | | 2.5w | 2.5w | 3w | 3w | 3w | 3w | 3.5w | 3.5w | 3.5w | 3.5w | 4w | 4w |

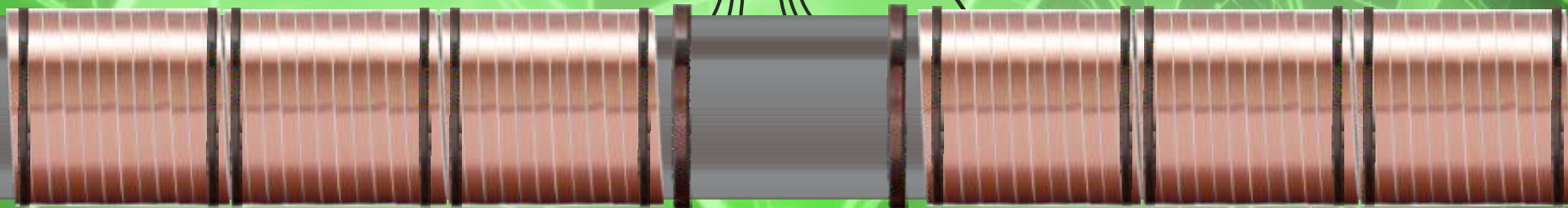
We Make Green India

BRK SYSTEMS ENTERPRISE

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SUBBAN STREET, SCHEME ROAD, THENI,
TAMIL NADU – 625531. INDIA

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