

Salt-Free Solution to Hard Water

Industrial Electronic Descaler Model SB-1200



Premium Model - up to 3° - 12° Pipe

SPECIFICATION SHEET

How ScaleBlaster Works

Incoming water containing calcium carbonate, the mineral mainly responsible for lime scale deposits.

Unique and complex modulating frequency waveform hits the resonant frequency of the calcium carbonate molecules causing them to lose their adhesive properties.



ScaleBlaster's signal produces a wave current that sweeps all the frequency responses from 1,000-20,000 Hz at a rate of 20 times a second.

ScaleBlaster's signal causes the ions to precipitate or collide with each other to the point where the calcium crystals grow until they become so large that there are no more surface charges left to stick to the pipe walls or any other surface.

> This inaudible signal at sonic frequencies causes turbulence in the water molecules and ion exchange in mineral atoms.

> > Crystals are unable to adhere to any surface and do not precipitate out as hard scale.

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Signal cable delivering frequencies from the computerized control box. **ScaleBlaster** induction coil wrapped externally around pipe on incoming water supply line.

Empty water molecules attract calcium molecules from scale buildup on pipes and other surfaces that have scale buildup. This causes any existing scale to go away and never return again.



SB-1200 ELECTRONIC DESCALER

Input Voltage: 90-264 VAC at 47-63 Hz Input Current: 2A rush @ 115 VAC, 1A rush @ 230 VAC Number of Output Channels: One

Output Voltage: 6 VDC (No Load, Open Circuit)

Output Current: 6 Amps Peak Min. @ 1KHz**

Output Signal: AC Square wave, Frequency user selectable:

Swept frequency from 1KHz to 5KHz | Swept frequency from 1KHz to 10KHz | Swept frequency from 1KHz to 15KHz Swept frequency from 1KHz to 20KHz | Swept frequency from 1KHz to 2KHz | Swept frequency from 2KHz to 4KHz **Circuit Protection:** Thermal overload protection on Switch-Mode Power Supply (SMPS), Over voltage protection on SMPS, Over current protection on SMPS, Micro-controller monitoring of enclosure/heatsink over temperature shutdown, Micro-controller monitoring of internal over temperature shutdown, Output sensing circuit for over current immediate shutdown protection, Main input noise filtering **Enclosure:** Wall mount, gray powder-coated, 16-gauge steel. Nema 4 and 12 rated. With Gland Plate and polycarbonate window. **Operating Temperature:** 10° F to 130° F (12° C to 54° C)

Storage Temperature: 2° F to 150° F (17° C to 66° C)

Warranty: 3 Years parts and labor

Physical Properties:

SB-1200 Unit Dimensions: 16"x12"x6" (40.6cm x 30.5cm x 15.3cm) | **SB-1200 Unit Weight:** 17 LBS (7.8 Kg) **SB-1200 Shipping Crate Dimensions:** 20"x25"x12" | **SB-1200 Shipping Weight:** 52 LBS

* Estimated shipping weight. (Varies with differing amounts of signal cable.)

** Maximum coil inductance: 200uH. (See coil chart.)

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