

Electronic Lime Scale Control System for Agriculture Applications

Model AG-200



How ScaleBlaster works

ScaleBlaster's signal produces a wave current that sweep all the frequency responses from

1,000-20,000 Hz at a rate of 10 times a second.

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

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.

ScaleBlaster's signal causes the ions to precipitate or collide with each other to the point where the calcium crystals grow

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

until they become so large that there are no more surface charges left to stick to the pipe walls or any other surface.



AG-200 ELECTRONIC DESCALER SPECIFICATION SHEET





OUTPUT FUSE: 3.15A, 250VAC, 5x20mm, fast acting, Radio Shack # 270-1054
DESCALING METHOD: The control box supplies a square wave signal to a coil of wire that is wrapped around the pipe. The signal is swept anywhere from 1,000 to 20,000 times a second, producing a modulating frequency waveform that hits the resonant frequency of the calcium molecules causing them to lose it's adhesiveness.
ENCLOSURE DIMENSIONS: 12" x 10" x 5"

ENCLOSURE MATERIAL: 16 guage steel, powder coated ANSI 61 gray. NEMA 12, 13, 4. UL 508 type 3R, 4, 12 & 13. CSA Type 3R, 4, 12 & 13. IEC 60529, IP66. Weatherproof enclosure.

SIGNAL CABLE: 18 gauge, single stranded wire, 56 feet long. WARRANTY: 5 years parts and labor. SHIPPING WEIGHT: 17 lbs. CARTON DIMENSIONS: 18.5" x 14.5" x 10.5"

PIPE SIZE CAPACITY: up to 2" pipe size diameter. **PIPE TYPE:** PVC, copper or any non-ferrous based pipe.

OUTPUT VOLTAGE: no more then 5 Volts DC (open circuit).

INPUT FUSE: 1 amp, 250VAC, 5x20mm, fast acting, Radio Shack # 270-1049

INPUT VOLTAGE: 90-264 VAC @ 47 to 63Hz

INPUT POWER: less then 5 Watts

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