

Digital Scale Control System

Continually Dissolves Calcium Scale in Cooling System



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- **Molding Machines**
- **Cooling Towers**
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- Improved thermal transfer reduces fuel consumption
- Scale-free equipment reduces maintenance & downtime
- Extends life of components (pumps, lines, exchangers)
- Breaks down hard calcite that supports bio-films
- Reduces mineral deposit corrosion failures
- Creates an instant R.O.I.

The Green Solution for Lime-Scale

Scale is the primary cause of maintenance costs and premature replacement in all equipment that circulates water. Scale-forming calcium will precipitate from water whenever there are temperature or pressure changes. Water pressure, heating and cooling in both molding machines and cooling towers create the ideal conditions for depositing hard scale. With the advent of electronic scale control it is now possible to break down existing deposits and pro-actively keep them from forming. The constant de-scaling creates numerous cascading benefits that add up to considerable savings in both maintenance and operational costs.

The DME Molding Supplies digital scale control system has a unique computer program that creates a complex group of frequencies that are amplified and driven into a coil that surrounds the pipe. Minerals in the water are continually bombarded with complex high frequencies which fractures them to a microscopic size. This transforms the water into an improved solvent (12%–14% reduced surface tension) that converts existing lime scale into a soft sludge. This is removed at the lowest point of the system.

Scale reduction boosts heat transfer in system components for cooler oil, cleaner components, improved energy savings, reduced maintenance and reduced chemical cleanings and catastrophic system failures.



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General

All scale control systems are according to pipe size. Each system will treat all the water that flows through the pipe for which it was designed. A single 2-inch unit can cover several plastic injection machines that are cooled by a single 2-inch pipe. One unit will cover all the machines "downstream" from the coil.

In order to treat a large cooling tower and all of its heat exchangers, and all components that are part of the cooling loop, the unit must be sized for the main loop of the system.

Installation

In all cases a coil of wire is wound around an existing non-ferrous pipe. This includes PVC, CPVC, STAINLESS STEEL, COPPER and RUBBER. A control box is attached to the coil and the unit plugged in. All other operations are automatic and controlled by the computer.

Salt-Type Softeners

If a salt-type (ion-exchange) softener is in place, it can only be used to provide make-up water to the system. If the digital scale control is in the same loop as a salt-type softener, it will de-scale it and render it ineffective, It can however provide reduced hardness make-up water to the system.



Model Number	Maximum Pipe Diameter	Maximum Flow Rate	Size H x W x L (inches)	Power (watts)	Shipping Weight (lbs)	Price
DSC100	1-Inch	30 GPM	2.3 x 3.7 x 5.8	22	4	\$345.00
DSC200	2-Inch	150 GPM	2.3 x 4.7 x 8.6	32	5	\$845.00
DSC400	4-Inch	400 GPM	5.5 x 10 x 12	36	12	\$4,645.00
DSC600	6-Inch	1,000 GPM	6.5 x 12 x 14	40	14	\$8,425.00
DSC800	8-Inch	1,600 GPM	6.5 x 12 x 14	42	14	\$14,050.00
DSC1000	10-Inch	2,000 GPM	6.5 x 14 x 16	46	18	\$18,750.00
DSC1200	12-inch	3,000 GPM	6.5 x 14 x 16	62	18	\$23,450.00

If installed on a closed loop system, remove any salt-type water softeners. System is only intended for use with copper or PVC pipe. For use with steel pipe, a section of copper pipe must be installed.

Click On The Following Links:

[Installation and Operation Manual DSC100 for Pipe Sizes to 1-inch DSC200 For Pipe Sizes To 2-inch](#)

[Industrial Scale Control Systems Models DSC4000-DSC12000 Installation and Operation Manual](#)

[Return On Investment Questionnaire](#)

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DME Molding Supplies features the best of:

Northern Supply (800-365-6565) • Nickerson Machinery (800-821-9534) • OHS (Ontario-888-809-7050/Quebec-888-475-9224)