

**TECHNOLOGY
BREAKTHROUGH**

- ✓ **REDUCE SCALE BUILDUP**
- ✓ **BOOST HEAT TRANSFER PERFORMANCE**
- ✓ **CUT ENERGY COSTS**

ED-2000 ELECTRONIC DESCALING SYSTEM

- Chillers
- Cooling Towers
- Evaporators
- Condensers
- Firetube Boilers
- Heat Exchangers



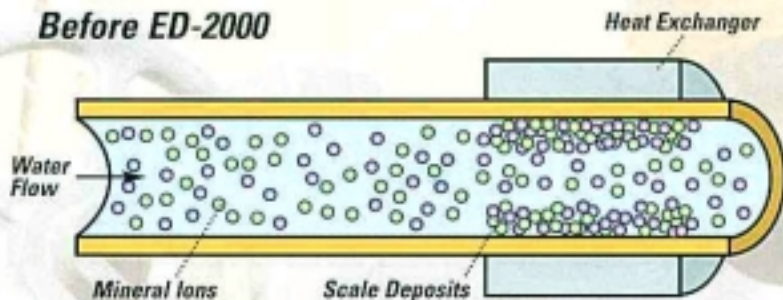
Problems with Scale

As water is heated in heat exchangers, minerals in the water are deposited as "scale" on heat transfer surfaces. This occurrence is known as "uncontrolled precipitation". These scale deposits lead to problems that include increased downtime for cleaning and premature wear and replacement of heat transfer equipment. The most obvious and readily measurable expense is the cost of energy required to maintain heat transfer effectiveness as scale builds up.

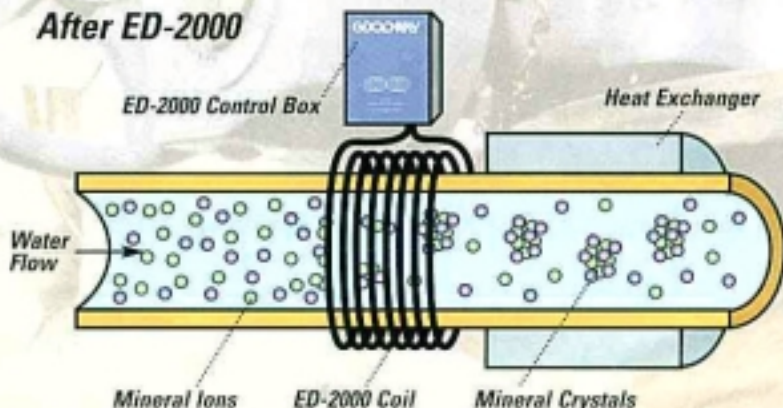
Solutions with ED-2000

The Goodway ED-2000 Electronic Descaling System, through a patented technology, changes an "uncontrolled precipitation" into a "controlled precipitation" of ions. This process allows the mineral ions that deposit as a natural occurrence on heat exchangers to clump together into large, insoluble mineral crystals. These crystals flow freely through the heat transfer equipment, preventing costly scale deposits. The ED-2000 system improves equipment performance, delays or avoids shutdowns and substantially saves water and energy.

Before ED-2000



After ED-2000



**HOW SCALE DEPOSITS
AFFECT CHILLER PERFORMANCE**

In a 400 ton chiller, operating 500 hr/yr at 50% average load with power cost \$0.060 kWhr, scale deposits affect performance as follows:

Scale Deposit Factor	% of Efficiency	Money Wasted	% of Electrical Power Required Above Clean Tube Condition
0.0005	100%	\$0	0%
0.0015	94%	\$3,920	11%
0.0025	80%	\$7,840	22%
0.0036	58%	\$11,760	33%
0.0045	36%	\$16,520	44%

**HOW SCALE DEPOSITS
AFFECT BOILER PERFORMANCE**

Scale Deposit Factor	Heat Loss	Increased Fuel Consumption
1/32" (0.8mm)	8%	2.0%
1/16" (1.6mm)	12%	2.5%
1/8" (3.2mm)	20%	4.0%

Easy to Install

The ED-2000 system is non-invasive. Simply attach the enclosure containing the prewrapped coil to the heat exchanger's water inlet pipe, connect the enclosed coil to the control box and the control box to a power source. One control box can operate several coils. The system can operate on either 115 V or 230 V. Installation takes less than 20 minutes for most applications.

Specifications

Control Box:

Input Power: Standard: 1.5 amps, 115 V, 50 or 60 Hz AC (Optional: 0.75 amps, 230 V, 50 or 60 Hz)

Operating Temperature:

0° to 140°F (-18° to 60°C)

Dimensions:

12" (300mm) high x 10 1/2" (270mm) wide x 5" (130mm) deep

Weight:

16 lbs (7 kg)

Coil:

Enclosure: Weather Resistant ABS-Plastic

Lead Wire: #18 Gauge

Operating Temperature:

0° to 210°F (-18° to 99°C)

Weight:

1 lbs (0.5 kg)



ISO-9001 Registered

GOODWAY™

Goodway Technologies Corporation
420 West Avenue
Stamford, CT 06902-6384 U.S.A.
Tel: 203-359-4708 • Toll-Free Tel: 1-800-243-7932
Fax: 203-359-9601 • Toll-Free Fax: 1-800-359-9625
E-Mail: goodway@goodway.com
Internet: http://www.goodway.com

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1-800-777-3897