SURE CURE
Electric Curing System

**Highest quality cure**
You can actually control the temperature of your concrete uniformly throughout the bed.

**Lowest operating costs**
Over 90% of the system’s heat goes into the product. Heat generated by the mix is captured, too.

**Excellent reliability**
Checking the system takes a few seconds at start-up. Failure during a cure is almost unheard of.

**Low maintenance**
Tighten screws once a year (about 2 hours).

**FEATURES**

- Each curing system is custom designed to accommodate a specific form, based on the form’s volume and heat loss characteristics. The form is then divided into areas of similar characteristics. Heaters within each area operate as a unit on an independent circuit.

- Over 90% of the energy applied to the system reaches the concrete in the form of heat. Electric heaters are installed on the skin of the form where direct contact ensures good heat transfer. No other curing method requires fewer BTUs.

- A computer control system operates each curing system. The computer provides precise temperature control. It also calculates maturity, tracks energy consumption, controls electrical demand, and stores all data generated during curing.

- **THE SURE CURE** systems captures the heat of hydration. Each system is insulated with two inches of sprayed-on urethane foam.

- **The SURE CURE** system is controllable. It maintains uniform temperatures throughout the concrete for the duration of the cure cycle. Boiler systems simply cannot do this.

- The **SURE CURE** system is low maintenance. It requires only a fraction of the labor typically needed to operate and maintain a boiler system (typically a few hours per year).
ALTERNATIVES

The traditional boiler heating system is inefficient. It loses heat up the flue, in the pipes, in the form itself, to the ground under the form and to the air surrounding the form. Additionally, a significant amount of heat returns to the boiler and never reaches the concrete.

Temperature control is also an issue with a boiler heating system for three reasons.

1. The pipe has to lose heat as it goes from one end of the form to the other; thus, one end is warmer than the other.
2. Hot air rises, producing uneven heating top to bottom.
3. Air conducts heat very poorly, temperatures can only be changed gradually. Once a valve is closed, heat continues to radiate, causing the product to overheat.

Boiler systems also require regular maintenance. Water must be treated to prevent clogged pipes. Leaky pipes are common and require repair. Even small leaks create corrosion, shortening the life-span of the form.

Other types of curing systems also have significant drawbacks. Live steam systems can heat concrete better than piped steam, but heat loss and corrosion are serious issues. Forced-air systems also suffer major heat losses and produce only minimal increases in product temperatures.

• SURE CURE curing systems operate on a 480-volt, 3-phase power service that keeps distribution costs to a minimum. Each system includes a pre-wired power distribution cabinet. Proper grounding ensures that the system is totally safe.

• Most systems are installed on form sections at the precast plant. A SURE CURE representative is directly involved to ensure proper installation.

The bottom line: a SURE CURE system reduces the cost of energy, labor, and materials while improving the quality of precast products.

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