

intelliCure – Uniform and Match Temp Curing

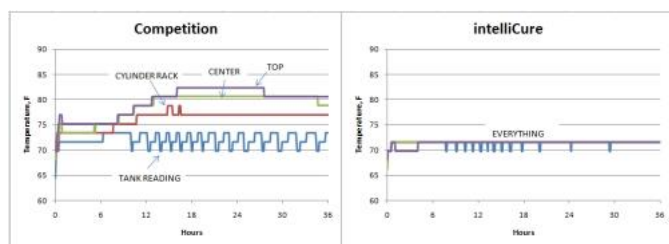


Introduction

Even temperature distribution is a common problem in concrete curing tanks. Impeller (pump) type circulation systems can be a maintenance headache.

Conditioned water can be trapped under the sample rack with the tank's temperature sensor making the tank appear to be at the specified temperature while the area with the test specimens exhibiting substantial offsets in temperature.

The intelliCure overcomes these problems by using patent pending bubble plumes to pull the conditioned water up and around the test specimens. This creates extremely uniform temperatures resulting in ideally cured cylinders, cubes, or beams. The rack that support the specimens is also designed to be more open and free-flowing, again enhancing water circulation.



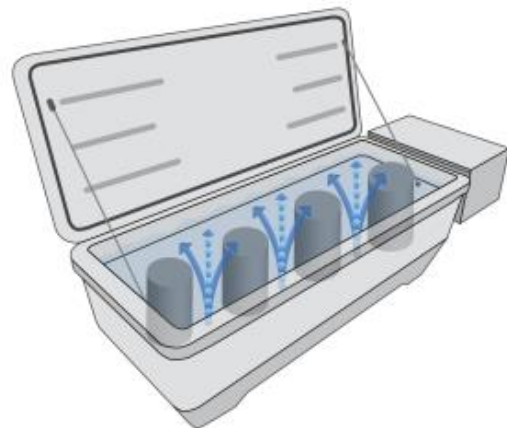
Temperature Differentials

intelliCure is built with the rugged, grizzly-proof Yeti cooler box. Built to last, Yeti boxes feature a "solid pin hinge" design that can stand up to the toughest job site requirements.

Since cylinders are immersed in circulating water, intelliCure can provide an ideal, uniform curing environment for the entire curing cycle of acceptance cylinders.

Features

- Heats and Cools under automatic control
- 23 °C Set point (adjustable)
- Active water circulation avoids stratification
- Certificate of accuracy versus NIST traceable reference
- Certified accurate to +/- 1 °C
- Easily handled by two people when empty
- Designed to comply with AASHTO and ASTM curing standards



Bubble Plume Water Circulation

Specifications

intelliCure Mini

- Dimensions: 150 X 51 X 54 cm
- Holds **10** 150 mm or **25** 100 mm cylinders
- Fits in most full-size ute trays
- 750 Watt Heater

intelliCure Standard

- Dimensions: 178 X 51 X 54 cm
- Holds **18** 150 mm or **45** 100 mm cylinders
- 1500 Watt Heater

intelliCure Mega

- Dimensions: 224 X 61 X 61 cm
- Holds **28** 150 mm or **70** 100 mm cylinders
- 1500 Watt Heater



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intelliCure Match



Match what's really going on inside your pours. intelliCure Match can make it match for you.

The best practice for concrete cylinder curing, the intelliCure family of products just got even better with the intelliCure Match curing system. Now you can monitor the curing of your critical concrete structures by replicating the real-time, in-place conditions that exist on your site.

The specialized sensor transmits the internal temperature conditions of your pour to the intelliCure Match curing box, which matches the water temperature conditions precisely so your breaks will represent what's going on with your in-place concrete.

Benefits

- Monitor and match internal concrete temperatures during the curing process
- Ideal for initial or final curing of "match set" cylinders following constantly changing temperatures of your placement
- Automatic shut-off switch prevents low water level operation
- Easy maintenance and simple heating element replacement
- Accurately matches rising temperatures during hydration, and adjusts to match falling temperatures during cool-down
- Temperature adjustments monitored and updated every 3 minutes from concrete placement input
- Same size options as intelliCure systems

Specifications

- Modes: Match Cure or Auto Cure
- Heats and Cools
- Match Cure Displays
 - In-place Temperature
 - Water Temperature
 - Hi/Low Temperatures
- Auto Cure Displays
 - Set Temperature
 - In-place Temperature
 - Water Temperature
 - Hi/Low Temperatures
- Includes Certificate of Accuracy versus NIST traceable reference
- Time control over the measurement procedure.

About PCTE

PCTE have over 30 years experience in the measurement and testing of concrete. Able to supply a complete range of laboratory and field material testing equipment.

Other Equipment

The full Proceq range of equipment is available for insitu non-destructive concrete measurement, including Schmidt Hammers, Cover Meters, Half Potentials, Ultrasonic Pulse Velocity, Resistivity and Permeability measurement.

We also supply Intelli-Rock maturity and temperature logging systems, MIRA- Ultrasonic Pulse Echo Tomography device, advanced real-time corrosion rate monitoring equipment, and Ground Penetrating Radar.