

THERMOCURE I & II – FREQUENTLY ASKED QUESTIONS

🔍 GENERAL OVERVIEW

What’s the difference between Thermocure I and Thermocure II?

Thermocure I is heat only

Thermocure II is heat and cool

Which model is best for my testing needs—Thermocure I or II?

Climate determines model – However Thermocure II keeps cylinder within standard requirement regardless of outside temperature and heat of hydration given off by cylinders in box.

What standards do both units comply with?

ASTM, AASHTO and CSA

How do Thermocure products help me stay compliant with ASTM, AASHTO and CSA?

Thermocure keeps test cylinders at required temperatures and moisture to get best test results

Why is temperature control so important in the first 48 hours of field curing?

Temperature control in the first 48 hours is critical because it directly affects how concrete test cylinders gain compressive strength.

If cylinders are too hot or too cold during this period, hydration rates change—leading to inaccurate strength test results that don’t reflect the actual performance of the concrete in place.

Inconsistent temperatures can cause:

Lower or higher reported strengths than reality

Failed tests despite the correct mix design being supplied

Delays, disputes, and costly retesting

Controlling temperature and humidity ensures reliable, consistent results you can trust.

DESIGN & CAPACITY

How many cylinders can Thermocure I and II hold?

Thermocure I & II – 22 (6” x 12”) Cylinders

Thermocure I & II – 46 (4” x 8”) Cylinders

Are the Thermocure units supplied with the cylinders?

Thermocure DOES NOT supply the units with cylinders

What are the exterior and interior dimensions of each unit?

Please refer to the data sheet

How much does each unit weigh (empty and fully loaded)?

Please refer to the data sheet

Is the unit watertight and weather-resistant for field use?

Yes – Each of our models, Thermocure I and II are watertight and weather resistant

POWER & PERFORMANCE

What are the power requirements for Thermocure I and II?

Each of our models, Thermocure I and II require – 110v, 60 hertz with a minimum of 20amp fuse.

Can these units be powered with a generator on remote job sites?

Yes – Each of our models Thermocure I and II can be powered by a generator with a minimum of output of 2500watts PER THERMOCURE UNIT.

How quickly do they reach the target curing temperature?

Once water is added, the unit should be turned on and allowed to run for 24 hours prior to placing test cylinders inside the cooler to ensure proper temperature stabilization.

What is the highest ambient temperature for use?

The highest ambient temperature for a Thermocure box to run efficiently is 120°F.

What is the lowest ambient temperature for use?

The lowest recommended ambient temperature for efficient operation is -15°F. The water inside the unit must not freeze—do not plug in or operate the Thermocure if the water in the cooler is frozen.

How do the units maintain consistent temperature during hot or cold weather?

An electronic controller continuously monitors the water temperature using a thermocouple. Based on the set temperature, the Thermocure II automatically activates heating or cooling to maintain consistent curing conditions.

Is there a built-in thermostat or temperature monitoring system?

Yes. Both units include built-in temperature monitoring and control systems.

Thermocure I features a built-in thermostat that maintains the set temperature.

Thermocure II uses a thermocouple to report water temperature to an electronic controller, which automatically regulates heating and cooling

TEMPERATURE CONTROL & MONITORING

What temperature range is maintained inside the Thermocure units?

The manufacturer set point is 73°F ± 3°F.

For Thermocure I, the heat of hydration from the concrete and high ambient temperatures can cause the water temperature to rise beyond the unit's ability to regulate. In these cases, ice or cold water should be added to bring the temperature back within range.

How should I monitor internal temperature—do you recommend specific devices or methods?

A min/max thermometer or a data collection device is recommended to track temperature. Thermocure offers both options—just ask us for details.

What happens if temperatures fall outside the required range?

Risk of incorrect test cylinder strength results

Do Thermocure units include any automatic shut-off or alerts for temperature issues?

Thermocure II has a built in thermometer that shuts off at pre determined high temp setting set by the manufacturer.

OPERATION & MAINTENANCE

Is any setup or assembly required when the unit is delivered?

Minimal setup is required. Place the unit on a solid, LEVEL surface, fill it with water, and plug it into an approved power supply. Allow the unit to run for 24 hours before placing test cylinders inside.

How can I ensure the longevity of my Thermocure unit?

Prevent concrete sediment from accumulating in the bottom of the cooler. Regular cleaning helps maintain performance and extends the life of the unit.

Are there any routine maintenance or inspection requirements?

Yes. After each use, remove the stainless steel rack and clean out any accumulated concrete sediment from the bottom of the unit

What is the typical service life of each unit?

Properly maintained units will last many years.

Are replacement parts available if something breaks or wears out?

Yes. Call our office at 518-490-2330 or email us at sales@coninnco.com

SHIPPING, WARRANTY, & SUPPORT

Where are Thermocure products manufactured?

Our Thermocure units are manufactured and in the United States - Malta, New York.

How are the units shipped and how long does delivery take?

Units are shipped from Malta via LTL freight carriers. Lead times and shipping durations may vary depending on availability and destination.

Do you offer a warranty? What's covered and for how long?

Yes. 1 year limited warranty. Call 518-490-2330 or email sales@coninnco.com for details.

Do you provide technical support, and how can I get help if I have issues in the field?

Yes. If you need any technical support please call customer service at 518-490-2330.

Can Thermocure units be customized for larger projects or unique site conditions?

Typically we do not customize our Thermocure units. However, if your project has some type of special needs or you have a requirement for numerous units, we're happy to discuss your needs on a case-by-case basis.

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