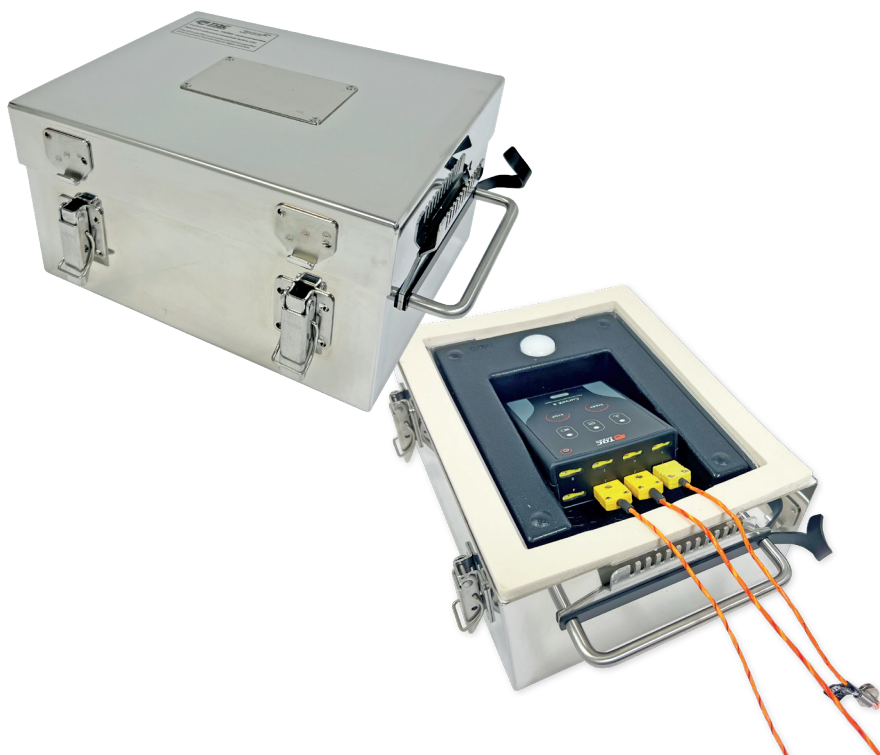




Curvex Insulation Box

(CX2005) Max. temperature 300°C

Operating Instructions (V2.3 0624)



IMPORTANT! Before taking this hardware in use we strongly advise you to read this manual carefully.

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1. Safety precautions

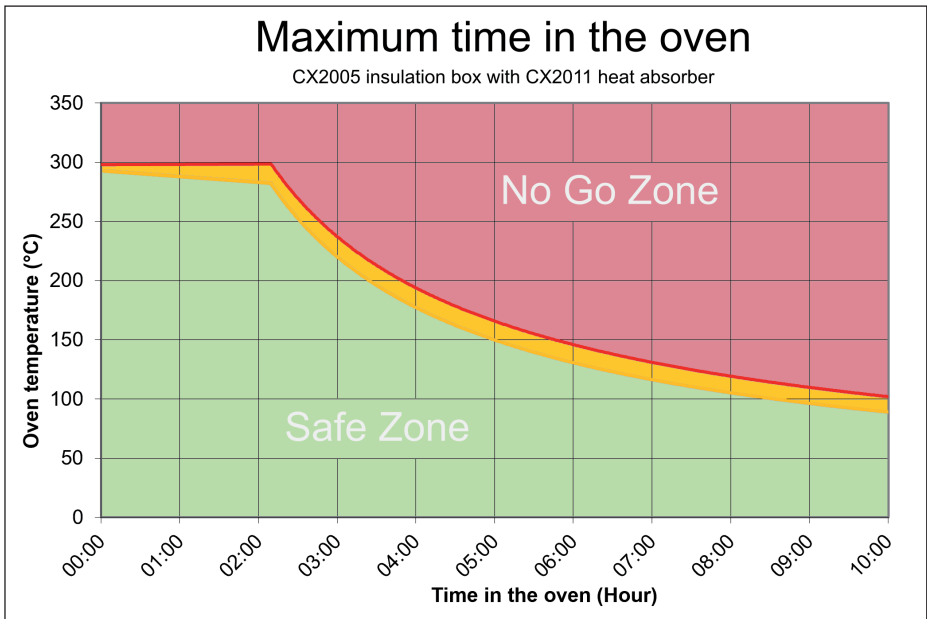
- It is recommended to wear insulated gloves when handling the insulation box and energy absorber.
- In order to protect the equipment, do not exceed the specified time and temperature limits, as indicated by the green area in the graphs.
- Do not overheat, crush, puncture, or otherwise damage the energy absorber and related equipment, this may result in leakage or explosion.

2. Product description

The TQC Sheen CurveX Stainless Insulation Box is a thermal barrier designed for the CurveX 3 Basic and the CurveX 4 oven loggers. The inner box and CurveX logger are shielded by a carefully selected insulation material, that makes the insulation box suitable for high temperatures for longer periods of time. On top of the lid is a metal plate for holding the magnet probes when not in use.

A cable hook allows the storage of surplus cable length close to the box to prevent loose cables getting entangled in the oven.

2.1 Specifications



Graph 1- Maximum time in the oven

Dimensions CX2005:

Height: 140 mm
Length: 255 mm + 30 mm handle
Width: 225 mm
Weight: ±4200 gram

3. Scope of supply

- CX2005 Insulation box
- CX2071 Silicon gasket
- Manual

3.1 Accessories

- A CX2011 energy absorber is a must-have and this is part of the CX4005 kit with CurveX 4 oven logger, insulation box, seal and energy absorber.

When multiple runs through the oven are expected it is advised to have a second, spare energy absorber at hand. This second energy absorber can be used for the next run when the used, warm energy absorber is cooling down.

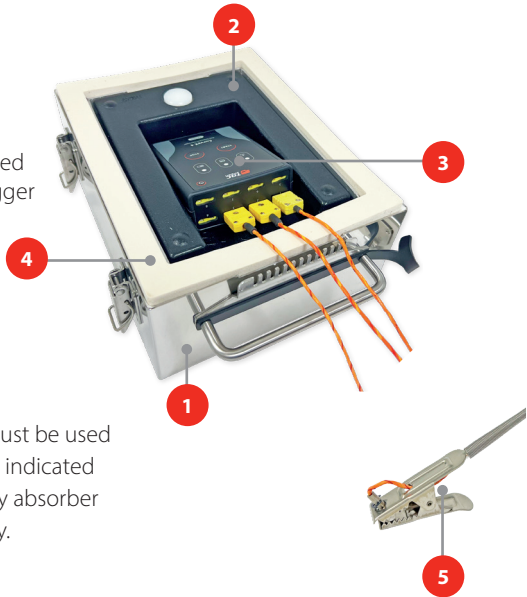
4. Performing a measurement

4.1 Items needed

In order to use the box properly and prevent damage to the oven logger, use the items and follow the steps below:

The following items are needed:

1. CX2005 Isolation Box
2. CX2011 Energy Absorber
(part of the CX4005 kit)
3. Curve-X oven logger, pre-programmed
with the needed paint type, start trigger
and other details.
4. CX2071 Silicon gasket
5. High temperature probes that
can resist a temperature of 300 °C.



NOTE An energy absorber CX2011 must be used to reach the maximum time as indicated in graph 1. Not using an energy absorber decreases the time significantly.

4.2 Preparation of the insulation box

Due to the enormous temperature difference between the inside and the outside of the box during curing, the moisture inside the box can potentially condensate, a physical phenomenon that may result in water (drops) in the box. This is an unwanted situation for obvious reasons. At first usage or after long, unprotected storage of the insulation box it is recommended to prepare the insulation box for usage.

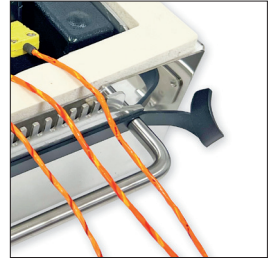
To do this, remove the lid, remove the heat absorber and heat up the insulation box and separate lid, without the heat absorber, to a temperature of 150°C (320 °F) for a period of 120 minutes. This will evaporate the excess of moisture in the insulation material.

After this evaporation cycle let the insulation box and lid cool down and soon afterwards put the dried insulation box, with the heat absorber inside and the lid closed, in a sealed plastic bag. Ready for immediate use.

After a normal run in the oven it is also advised to leave the box closed and ideally put it in a sealed bag when cooled down enough to do so safely. This prevents unwanted moisture entering the insulation material.

4.3 Connecting the temperature sensors

Connect the probes to the CurveX noting the + and – sign on the plug and the logger and the port number 1 to 8.



4.4 Install the silicon gasket

Carefully inspect the silicon gasket and replace when needed with a new one (CX2071).



4.5 Place the energy absorber in the box

Place energy absorber with the CurveX in it in the insulation box.



4.6 Checking the wiring

Make sure the wires of the probes, do not cross inside the box or on the silicon gasket. Crossing wires could create a heat leak and damage the logger and energy absorber.



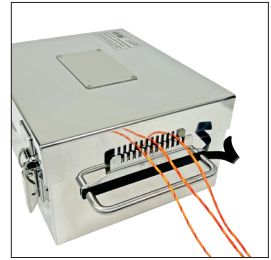
4.7 Starting the logging

Before closing the lid, the oven logger must be switched on and started using the Power and Start button. Depending on the programmed settings the logging could start instantly or at a specific date and time or at a specific sensor temperature.



4.8 Close the lid

Check that the logger is turned on and started. Place the lid on the insulation box and secure using the 4 latches. Re-check the wires and check the lid and seal for proper sealing all around the outside.



4.9 Run through the oven

Place the insulation box with attached sensors in the oven or on the oven carriage system.

4.10 After the run

After the run through the oven let the insulation box cool down before opening.

5. Maintenance

- Though robust in design, this instrument is precision-machined, so handle with care.
- There is no regular maintenance required.
- It is advised to check the seal every time the box is opened to be able to order a new one (CX2071) in time.

6. Disclaimer

The right of technical modifications is reserved.

The information given in this manual is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this manual without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this manual or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this manual is liable to modification from time to time in the light of experience and our policy of continuous product development.

