



# CureView Gradient Oven

For performing thermal tests and simulations on samples.

## Datasheet AB8000 (REV03)

CureView Gradient Oven for performing thermal tests and simulations on samples for the evaluation of among other things, thermal stability, flow behavior, chemical resistance and sample preparation for further testing.

The CureView Gradient Oven is a flexible oven that allows the user to heat up test panels on a glass bed to a variety of temperature profiles, varying from ambient +5°C to 350°C. Elevated temperatures are instantly generated by 32 spectral filtered IR halogen heaters, which can be controlled individually and allow the setting of any form of temperature gradient, varying from a parabolic shaped gradient, an ascending or descending slope or a number of temperature blocks. The CureView Gradient Oven allows importing of gradient profiles, measured by the CurveX oven logger system in order to simulate the production process on laboratory scale.

## Features

- ✓ Easy-to-use Start/Stop operation
- ✓ Buzzer acoustic feedback
- ✓ Emergency stop
- ✓ Gradient Oven Control software setup
- ✓ Automated test panel transport
- ✓ Pre and post cooling
- ✓ 32 channel gradient heating and sampling
- ✓ TQC Sheen Ideal Finish Analysis of data
- ✓ CurveX oven logger data import
- ✓ Easy test panel spot analysis
- ✓ Panel visible during test

## Scope of supply

- ▶ Gradient Oven
- ▶ Laptop + Gradient Oven Control and Ideal Finish Analysis software
- ▶ USB cable
- ▶ Power cord
- ▶ Manual
- ▶ Lamp Replacement Tool

## Specifications

### Technical Data

Panel carrier transport speed	: 13 mm/s / 0.53 in/s
Panel clamp speed	: 3 mm/s / 0.12 in/s
Max. panel width	: 98 mm / 3.86 in
Max. panel length	: 570 mm / 22.44 in
Max. panel thickness	: 1.25 mm / 0.05 in
Effective test area	: 500 x 74 mm / 19.69 x 2.91 inch

### Dimensions and Weight

Depth x width x height	: 595x760x296 mm / 23.43x29.92x11.65 in
Net weight	: Approx. 42 kg / 92.6 lbs

### Basic Unit

Power supply	: 220 - 240 V / 50 - 60 Hz (single phase / split phase)
Power consumption	: 2700 Watt (max.)
Safety	: Emergency Button, Thermal Fuses, Integrated Acoustic Alarm
Function	: Start and Stop button control
Max. noise level	: 70 dB

### Temperature

Controller accuracy	: 0.1°C
Time control accuracy	: 0.1 s/h
Heated accuracy	: 3°C
Range	: Ambient +5°C to 250°C max. / +9°F to 482°F
Ramp (1 mm thick aluminium)	: 0.5°C/s min.
Gradient	: 3°C/heater max.
Max. temperature difference	: 50°C / 90°F (between 2 elements) (Thermal properties of test panel not included)
Number of heating elements	: 32 elements, individually controlled

## Standards

- ✓ ISO 2812-5 Paints and varnishes -- Determination of resistance to liquids -- Part 5: Temperature-gradient oven method.

## Ordering information

AB8000 – CureView Gradient Oven 230 VAC, 50Hz

## Accessories / Optional Items

AB8025 – CureView Gradient Oven Test Panels, set of 50 pcs

AB8026 – CureView ISO 2812-5 Panel Adapter, suitable for holding panels size 500 mm x 100 mm

## Use

The AB8000 CureView Gradient Oven has a three button controlled and software configurable running operation. Check the manual for full details.

## Special Care

- ▶ Always clean the instrument after use.
- ▶ Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- ▶ Do not use compressed air to clean the instrument.
- ▶ Never perform repairs or service to the instrument yourself. This should be done by TQC Sheen or selected distributors.

## Safety Precautions

- ▶ Always make sure the instrument is connected to an earthed socket.
- ▶ Maintenance and inspection should be carried out at the correct intervals.
- ▶ Operating personnel should be informed before starting with maintenance or repair work.
- ▶ Always make sure the instruments power is turned off and the instrument is not connected to a socket while adjusting any electrical component whenever maintenance, inspection or repair work is done.
- ▶ Do not open the instrument. In case of malfunction always consult the manufacturer.

## Disclaimer

The right of technical modifications is reserved. Please refer to our terms and conditions as published on our website.