TQC CureView Gradient Oven

REV02 (AB8000)

Product Description

TQC 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 TQC 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 Ideal Finish Analysis of data
- CurveX oven logger data import
- Easy test panel spot analysis
- Panel visible during test

Business

Coating industry, industrial finishing, laboratory, detergent industry, automotive

Standards

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

Scope of Supply

- Gradient Oven
- Laptop with Gradient Oven Control and Ideal Finish Analysis software
- USB cable
- Power cord
- Manual

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

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

Temperature

Controller accuracy:	0.1˚C
Time control accuracy:	0.1 s/h
Heated accuracy:	3˚C
Range:	Ambient +5˚C to 350˚C max.
Ramp (1 mm thick aluminium):	0.5˚C/s min.
Gradient:	3˚C/heater max.

Ordering Information

AB8000	TQC CureView Gradient Oven 230 VAC, 50Hz

Accessories

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

Spare Parts

AB8016	Halogen Gold Reflector Infrared Heating Lamp (set of 10 pcs)
AB8020	Lamp Replacement Tool
AB8030	Nextrema Glass Test Surface
CM1105	USB Cable
AB8103	Power Supply Cable for CureView

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Use

The AB8000 TQC 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 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.

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