

Laboratory Oven for Powder Coatings



Unit with four separate ovens.



New design! Shows our demo oven. From now on it will be built like this but with four units like the oven on the picture to the left.

Construction

Automatically controlled oven door

The oven shuttle opens and closes automatically, which always gives the same opening and closing procedure. There is also a manual function for the oven door, so it can be closed and keeps the temperature when the oven is not in use.

Frequency converter to control air-flow

The fans is controlled by a frequency converter which makes it possible to totally control the air-flow.

PLC-operation

The oven is operated by a PLC-unit for total control of the automatic operation. Temperature, time and error messages are showed on a display. It is also possible to change the PID-values.

Service door

A servicedoor is placed on the back of the oven, for easy and fast repairing inside.

Function

How the oven works

Set the right time and temperature. Then hang the sample (see pict. 2 next page) on the shuttle and press start. Now the sheet is fed in to the oven, the timer starts and the curing process starts. When the time is up, the test sheet comes out automatically.

Advantages

It keeps a very steady temperature which gives good uniformity of the curing. The opening is very small and the isolation is good.

It rises very fast in temperature and it keeps the temperature steady even if the oven door is open.

The automatically controlled opening- and closing of the shuttle gives all the tests the same conditions, which gives very equal test results.

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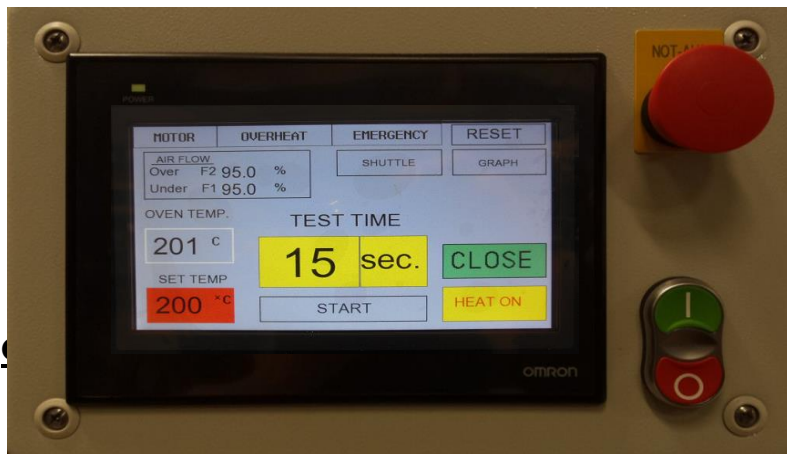
Laboratory Oven for Powder Coatings

Technical Data

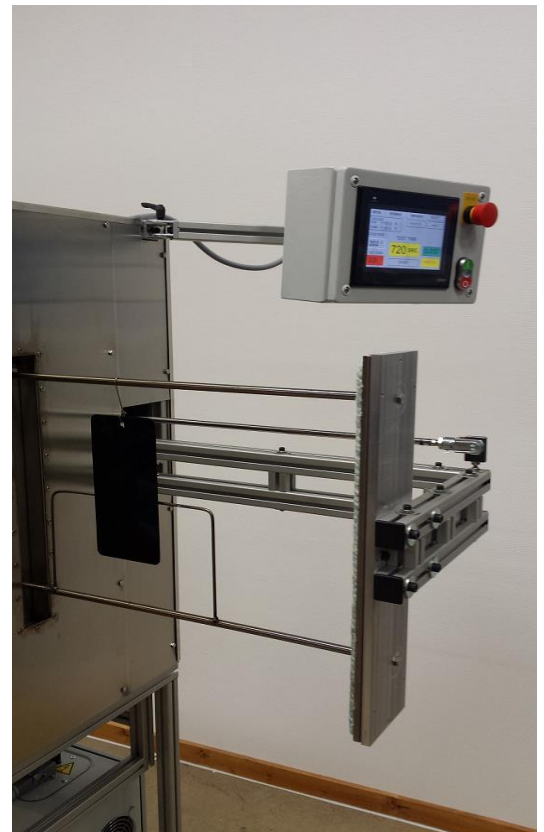
Xiscion LABORATORY OVEN for Powder Coatings EC Standard		
Specifications	Effect Voltage Max temperature Heat-up time until stabile Fan motors, upper- & lower heat, vent. Compressed air	4 kW 400 VAC/50 Hz 260° C 60 min 0,18 Kw 6 - 8 bar
Design	Finish Size (mm) height x width x depth	Stainless Steel 1910 x 1910 x 650

Separate frequency converters to control the air-flow for upper- and lower heat. Thermocouples to measure upper heat, lower heat and for overheat protection. The temperature regulator is controlled by the PLC.

Pict. 1: The Control Panel



Pict. 2: The shuttle with a sample.



The oven is PLC-operated with a detailed control panel.

Easy to operate with touch-buttons.

(See Pict. 1)

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