

Libeccio

Code 245B

Semi-automatic moisture regain cabinet for quick drying. It is controlled by a thermoregulator, and supplied complete with an electronic balance to determine the commercial mass of yarns and fibres.

Tests are performed according to the following international standards:

ISO 6741-1	UNI 9213-1 Apr. 1988	ASTM D1576-01 / D2495
ISO 6741-2	UNI 9213-2 Apr. 1988	IWTO 34-85
ISO 6741-3	UNI 9213-3 Set. 1989	IWTO 33-98
ISO 6741-4	UNI 9213-4 Feb. 1989	UNI 9213-5 Nov. 1989
UNI EN ISO 2060	UNI 9213-5 Feb. 1989	UNI 1335 GIU. 1983
ISO 2060	UNI 9213-6 Ott. 1991	EN ISO 2060



MAIN FEATURES:

- WEIGHING of the sample at the beginning and at the end of each drying cycle without opening the conditioning chamber not to affect temperature inside the chamber and guarantee the max. accuracy of test results eliminating the influence of both operator and external environment.
- CONTROL of temperature ($\pm 1^{\circ}\text{C}$) within the tolerance indicated by the international standards.
- QUICKNESS in test execution (for a sample of 100g, the testing time is about 10 minutes).
- The instrument is controlled by a MICRO-DEVICE which makes its use very simple.

The mentioned advantages distinguish LIBECCIO from all other conditioning cabinets available on the market.

TESTING PROCEDURE

To determine the commercial mass - that is the only weight of the tested material which can be determined with certainty, and considered as important in the commercial negotiations - the sample must undergo drying cycles (through a suction process) at 105°C (or 140°C in case of silk) until no weight variation is read.

At the beginning of the cycle, the conditioning chamber is pre-heated at the usual working temperature. After inserting the sample in the basket, the operator sets the conditioning temperature, and the test starts. At the beginning, and at the end of each drying cycle, the operator weighs the sample, and checks the weight variations. The test stops when the difference between 2 consecutive weighings is below 0,05%.

The controlling keyboard allows the operator to start and stop tests, and to perform sample weighing without opening the conditioning chamber. A thermoregulator controls the maintenance of the set temperature.

The display shows the set working temperature and the ambient temperature in the conditioning chamber.

Once the working temperature is achieved, it is maintained as constant with the utmost accuracy, and within the tolerance indicated by the international standards.



TECHNICAL FEATURES

- Power supply: 380V- 50 Hz three-phase (other supplies on request).
- Installed power: 8 Kw
- Accuracy of the set temperature: +/- 1°C
- Accuracy of the temperature reading probe: 0.01°C
- Temperature range: from 0°C to 140°C
- Heating system: 9 resistances
- Safety system limiting the max. temperature
- Electronic movement of the basket to perform sample weighing
- Adjustment of the air exhausting flow
- Basket dimensions: 215mmX220mm
- Conditioning chamber dimensions: 340mmX350mmX420mm
- Balance with scale end 3200g and accuracy 0.01g.
- Dimensions: 146X64X160cm
- Net weight: 130 Kg



SUPPLIED ACCESSORIES

- Sartorius balance with scale end 3200g and accuracy 0.01g
- 2 baskets for sample holding
- Bar to draw the basket at the end of the test

ACCESSORIES ON DEMAND

- Calibration report: Code 172B CC1

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