

## Laboratory MEDIUM FLUTER "CONCORA type"

This apparatus flutes the paper samples by means of two fluting rolls. Afterwards, the samples are tested in the crush tester for evaluation of the C.M.T. (Corrugating Medium Test) and C.C.T. (Corrugated Crush Test).

Applicable standards: UNE 57.074 - ISO 7263 - TAPPI T 809...



- ❑ Easy to use
- ❑ Optional KIT for vertical position
- ❑ Precise controled temperatura
- ❑ Standard equipment prepared for "A" Flute
- ❑ Facilitated for interchangeable discs – Discs for "B" and "C" Flute OPTION
- ❑ Easy pressure calibration and regulation from the outside (no dismantling needed)
- ❑ High stability of temperature with PID controller
- ❑ Programmable temperature with digital display: 177 °C  $\pm$  2 °C

### DESCRIPTION

The prepared sample (for standard: 160mm x 12,7mm strips) is put in the upper opening. The strip is heated up to 177°C between corrugated rotating discs, whereby the flute is formed and ejected at the lower opening. Using the included sample holder the self adhesive tape is applied to complete the sample preparation.

Conventional equipment to flute samples of paper by rotating fluting rolls. Standard type "A" is supplied. Standard accessories included are the rack and comb. The rack, with a profile corresponding to the fluting rolls teeth, has 9 crest and 10 valleys.

The distance between the teeth are 8, 50  $\pm$  0, 05 mm. and the highness of the teeth are 4, 75  $\pm$  0, 05 mm. The comb has 10 projections of 19 mm long approx. and 3  $\pm$  0,1 mm. height.

**NOTE :** To glue the crest of the sample it is necessary to use an adhesive tape with good adherence. Inside the equipment there are 2 plates with fluted teeth able to maintain a testing temperature of 177°C  $\pm$  2°C by means of a programmable temperature digital controller. One of the discs is operating by a motor and rotates at a speed of 4,5  $\pm$  1 r.p.m., and the other geared disc , makes a pressure on the driving disc of 100  $\pm$  10 N.

- Diameter of rolls: 228, 5 mm  $\pm$  0, 5 mm
- Rolls dimensions: 16  $\pm$  1 mm
- Teeth n°: 84
- Radius of teeth at peak : 1, 50  $\pm$  0, 1 mm
- Radius of teeth at base: 2, 00  $\pm$  0, 1 mm
- Depth of teeth : 4, 75  $\pm$  0, 05 mm
- Distance between teeth : 8, 55  $\pm$  0, 05 mm

#### CONNECTIONS:

Electrical: 220 V Single phase 50 / 60 Hz (2 Kw)

#### DIMENSIONS AND WEIGHT:

Dimensions: 550 x 450 x 290 mm (W x D x H)

Box for transport: 600 x 480 x 410 mm (W x D x H)

Weight Net/Gross: 48 Kg / 65 Kg

#### DELIVERY CONTENT:

> Laboratory MEDIUM FLUTER

> Rack & comb device

