



# SHEET FORMER RAPID-KÖTHEN AUTOMATIC

For the production of standardised hand sheets with a diameter of 200 mm.



Rapid-Köthen 5-Automatic

## MOST IMPORTANT BENEFITS

- ✓ Table frame made of sturdy stainless steel (powder-coated)
- ✓ Bench top made entirely of waterproofed polypropylene
- ✓ Lightweight dryers for easy usage
- ✓ Special place on the bench top for detaching the produced sheets
- ✓ Automatic sheet forming process, changeable to manual control anytime
- ✓ Start of the sheet forming and drying process by push of a button
- ✓ With 1 – 3 dryers: one heating bath, 4 – 6 dryers: two heating baths

## PRODUCT DESCRIPTION

The warp resistant stainless steel frame is a robust base for the work table, in which one pump, hot baths, the control unit, a return water filter and the water container are installed. A former column, dryers, the water circulation system, and the controls are mounted in the waterproof table surface. The control panel contains easy to read instruments and a timer for each dryer as well as a vacuum display. Different programs can be stored in the program control system, and can be reloaded at any time. Between the former column and dryers there is a spacious work space for removing the manufactured hand sheets and preparing them for drying.

## TEST DESCRIPTION

From the equalizer (see page 14), suspension is taken. Water is introduced to the former column automatically when the start button is pressed. When it has been filled to the 4 litre mark, the suspension is added. When the 7 litre mark is reached the flow of water is stopped automatically. After the agitation is completed, the suspension comes to rest and is drained through a screen. The hand sheet is left on the screen frame. To provide it with the desired stability it is briefly treated with vacuum. Then the former column is opened, the hand sheet covered with a carrier board and couched. After removal it is given a cover sheet and put into the dryer. There the sheet is dried for the preset time (5 – 6 mins). After the drying is complete, carrier board and cover sheet are removed. The sample can then be made ready for further tests.

## TECHNICAL DATA

### DEVICE/INSTRUMENT

- Vacuum pump made of tin bronze
- All parts made of corrosion-resistant materials
- Automatic control system: up to 24 storable programs
- Change to manual control anytime
- Water circulation inside the dryers acc. to standard (3 – 6 l / min)
- Available with up to 6 dryers
- Dryer temperature: 93 – 97 °C
- 1 – 3 dryers = 1 built-in waterheater,
- 4 – 6 dryers = 2 built-in waterheaters
- Optional: Dryer temperature up to 145 °C

### INSTALLATION REQUIREMENTS

Electrical connection	400 V / 3 Ph / 6 kW
Water connection	Yes
Compressed air	4 – 6 bar

### APPLICABLE STANDARDS

- DIN EN ISO 5269-2\_2005
- DIN 54358
- Zellcheming Merkblatt V/8/76



Program and control panel



Automatic or manual control



Light weight dryer for easy use