

## Fast material tests for lab and production



### Morapex

Morapex® is able to analyse and therefore control either raw or dyed material in minutes rather than hours, compared to standard methods. It can be used for textiles (woven, non-woven, knitted, yarn or fibre), paper and leather. Morapex® A is a compact test device for use in production that can operate up to 95 °C and the Multi Liquor option (3 selectable tanks) is able to operate with a wide range of wash liquids. Morapex® S is a stationary unit for a wide range of applications within the laboratory.



Morapex A with Multi Liquor option

The system works according to the method of forced desorption, which means the inner condition of a fabric is revealed. Testing is possible at any stage of production, e. g. on incoming fabrics, intermediate analysis during production, analysis of finished goods, research and development checks, the effect of process and equipment adjustments and more. Testing with Morapex® means within a short time (minutes instead of hours) weaknesses are identified and errors are avoided at an early stage. This increases the efficiency of the production process.

## Operation

The test material is placed between two plates, which are heated to a specific temperature at a pre-defined pressure. A test liquid is pressed through the fabric and the extract received is collected in a tube. This treatment gives two interesting results:

First of all, the obtained extract can be analyzed quickly and easily (this contains all residuals, which are still held in the fabric). Secondly, the treated sample shows results in two minutes comparable to those achieved by standard fastness control methods.



Morapex A

## Devices

The Morapex® A unit is designed and optimised for use in production and works on a non-destructive basis. The Morapex® S unit is a stationary unit with a broader range of features and functions. It can be heated up to 150 °C and can work with all chemicals as an extraction fluid.

This way, the Morapex® S can perform sophisticated evaluations including fibre separation, replace Soxhlet procedures, etc. These functions are in addition to the capability of the Morapex® A unit.



Morapex S

| Specifications                             |                           | Morapex A          | Morapex S          |
|--|---------------------------|--------------------|--------------------|
| Extraction Surface                         |                           | 52 cm <sup>2</sup> | 52 cm <sup>2</sup> |
| Applications                               | pH measurement            | ✓                  | ✓                  |
|  | Control of wash procedure | ✓                  | ✓                  |
|  | Residual analysis         | ✓                  | ✓                  |
|  | Conductivity analysis     | ✓                  | ✓                  |
| Checks                                     | Wash / water fastness     | ✓                  | ✓                  |
|  | Perspiration fastness     | ✓                  | ✓                  |
| Sample size, min Ø                         |                           | 100 mm             | 100 mm             |
| Sample thickness                           |                           | 0,1 - 6 mm         | 0,1 - 6 mm         |
| Extract. liquid/cycle                      |                           | 5 ml               | 5 ml               |
| Temperature                                |                           | 20 - 95 °C         | 20 - 150 °C        |
| Extraction time                            |                           | 30 s - 5 min.      | 30 s - 42 min.     |
| Number of extractions                      |                           | 1 - 255            | 1 - 255            |
| Number of programs                         |                           | 10                 | 10                 |
| Supply voltage 220 V, 50 Hz / 110 V, 60 Hz |                           | ✓                  | ✓                  |
| Weight                                     |                           | 11 kg              | 18 kg              |
| Dimensions (w x h x d)                     |                           | 463 x 275 x 210 mm | 324 x 667 x 290 mm |

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Technical specifications are subject to change without prior notice.