

MA37

Fully Automatic Infrared Moisture Analyzer
for Daily Routine Operation

Advantages

- High-speed measurements
- Effortless cleaning
- User-friendly operation
- Display of process status



Product Description

The MA37 is the new Sartorius basic model for moisture determination. It works faster and is easier to use than its predecessor MA35. In addition, it features a compact footprint and delivers highly accurate results. Moreover, its BetterClean design also allows for effortless cleaning, and the status light indicates the current process status. The MA37 is ideal for operations characterized by consistently routine measurement tasks.

Applications

The MA37 moisture analyzer can be used for quick and reliable determination of the moisture content of liquid, pasty and solid substances using the thermogravimetric method. Typical applications of the MA37 include the analysis of foods, beverages, pharmaceuticals, chemicals, paper materials and environmental protection products. For daily recurring moisture analysis tasks, such as in production or incoming goods inspection, the MA37 is perfect!

Performance

Fully automatic endpoint determination eliminates the cumbersome capture of termination criteria. The moisture analyzer monitors the drying process and stops the measurement once the sample weight is constant. The built-in weighing system with 1 mg resolution is specifically optimized for use in higher temperature ranges and delivers the required measurement accuracy. Two powerful metal tube heating elements heat the samples in the MA37. These heating elements are fast, extremely rugged and durable. Compared to glass heating lamps, e.g. infrared lamps or halogen heaters, they are especially resistant to dirt and vibrations.

Moisture Analyzer

Technical Specifications

| | |
|--|---|
| Max. weighing capacity | 70 g |
| Repeatability, average | for initial sample weight approx. > 1 g: $\pm 0.2\%$ for initial sample weight approx. > 5 g: $\pm 0.05\%$ |
| Readability | 1 mg, 0.01 % |
| Typical sample quantity | 5 – 15 g |
| Result display | Moisture content in %M and g dry matter in %S and g ATRO in %M/S |
| Temperature range and settings | 40°C–160°C, stand-by temperature selectable from 40–100°C in increments of 1°C |
| Sample heating | Infrared metal heating elements |
| Heating programs | Standard drying, gentle drying |
| Shutoff parameter | Optional: – Fully automatic – Semiautomatic mg (1 – 50 mg 5 – 300 sec.) – Semiautomatic % (0.1 – 5.0 % 5 – 300 sec.) – Timer settings (02:00 – 99.59 min.) – Manual |
| Access to sample chamber | Removable hood with wide opening angle, SoftClose mechanism |
| Measuring program | 1 program saved in a non-volatile memory (freely selectable method parameters) |
| Memory for data storage | Results are saved until the start of the next measurement |
| Operator guidance features | Intuitive user interface, including touch screen and easy-to-understand menu guidance |
| Language selection | English, German, French, Spanish, Italian, Russian, Chinese, Polish, Japanese, Portuguese, Turkish |
| Status light | Displays the status “analysis running / START”, “analysis completed / STOP” or “analysis error” |
| Sample inspection | LED-illuminated sample chamber, inspection window with grid above the hood |
| Draft shield | Integrated draft shield |
| Cleaning | Removable hood, inspection window with grid and sample chamber plate for easy cleaning in the dishwasher |
| Log printout | – Printout using the optional, internal printer YDP30; alternatively, the printer YDP20-OCE can be used with an adapter (YCC03-D09) – GLP-compliant, inalterable standard for results printout paper-saving short record |
| Monitoring of inspection and testing equipment | External calibration using optional calibration weights |
| Data interface | Mini USB – Automatic detection of the Sartorius printers YDP30 and YDP40 – Direct data transfer to Microsoft® Windows programs without any additional software – Programmable data output interval – Data transfer protocols SBI, table format, text format |
| Frequency | 50/60 Hz |
| Power consumption | Max. 640 VA |
| Temperature range | 10°C – 30°C |
| Housing dimensions (W × D × H) | 215 × 400 × 210 mm |
| Weight | Approx. 6.2 kg |

Available Models

MA37 115V/230V Automatic voltage detection 115V/230V

Accessories

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|--------------|---|
| 6965542 | Disposable sample pans, 80 pcs., aluminum, Ø 90 mm |
| 6906940 | Glass fiber pad for analysis of pasty and fatty samples, hard quality, 80 pcs., Ø 90 mm |
| 6906941 | Glass fiber pad for analysis of liquid and fatty samples, soft quality, 200 pcs., Ø 90 mm |
| YCW452-AC-02 | External calibration weight, 50 g (E2) with DKD certificate |
| YDP30 | Standard printer |
| YDP40 | Premium GLP laboratory printer |
| YCC03-D09 | Adapter cable for connecting the printer YDP20-OCE |

Equipment Supplied

Moisture analyzer, power cord, user manual, aluminum sample pans, glass fiber filter

