(800) 628-8139 or (508) 946-6200
brookfieldengineering.com

Computrac® MAX® 5000XL

Moisture, Solids & Ash Analysis

Increased precision, flexibility, and higher testing temperatures – the Computrac MAX 5000XL provides accurate and repeatable moisture, solids, and ash analysis from a single sample. It offers many of the same features as expensive thermogravimetric analyzers, at a fraction of the cost. With a maximum temperature of 600°C and a maximum sample size of 100 grams, the MAX 5000XL has the versatility to test a wide range of materials.

Features

HIGH TEMPERATURE TESTING: The oven of the Computrac MAX 5000XL can reach temperatures as high as 600°C, giving it the ability to perform both loss on drying (LOD) and loss on ignition (LOI) testing. It is an ideal alternative to expensive thermogravimetric analyzers.

RUGGED CONSTRUCTION: Equipped with a ruggedly-designed metal casing and a high temperature heater, the MAX 5000XL is designed to provide lab-quality data, whether it is in the lab or on the production floor.

VERSATILE: The MAX 5000XL is able to test material up to 100 times faster than standard reference methods and is ideal for everything from plastics and pharmaceuticals to foods, biomass materials, and more.

FLEXIBLE ENDING CRITERIA: User-adjustable ending criteria help to optimize test results and performance for your unique application or material.

REAL-TIME RESULTS: The MAX 5000XL offers simple, menu-driven operation and a user-programmable interface with a keypad and large color display that allows users to view real-time moisture curve and rate-of-moisture-loss graphs during testing.

MULTISTAGE TESTING: Several tests can be linked in order to form a single, multistage test that can change temperatures, ending criteria, and times between each test segment. This allows the instrument to test for moisture, solids, and ash content with a single sample.

SELF-CLEANING OVEN: The oven of the MAX 5000XL features a self-cleaning cycle that simplifies routine maintenance. It runs for 45 minutes at 550°C.

WEB SERVER: The optional web server allows users to monitor tests remotely and check in with operators. It also lets users download results and calibration reports, view the audit log, and transfer programs between instruments.

Repeatable Reliable Accurate

Computrac® MAX® 5000XL

Quick and Accurate Moisture, Solids, and Ash Analysis for a Wide Range of Applications

Specifications

Moisture | Solids Range	0.1% to 99.9%
Ash | LOI Range	0.5% to 100%
Moisture Resolution	0.0001%
Balance Resolution	0.0001 g
Moisture Repeatability	<5% RSD for samples >10% moisture
Ash Repeatability	<5% RSD for samples >10% ash
Temperature Range	25°C to 600°C
Heating Element	Ceramic
Sample Size	100 mg to 100 g
Results	Moisture, Solids, Dry Weight, Ash, LOI
Ending Criteria	User adjustable: Prediction, Rate, Time, Reliability, and 4 other combinations
Memory	Stores up to 250 programs, last 1000 test results and last 100 graphs
Statistical Analysis	Mean, SD, RSD
Balance Calibration	Menu-driven calibration by the end user; NIST traceable calibration performed by the manufacturer
Heater Calibration	Menu-driven, NIST traceable with optional Temperature Calibration Kit
Operating Environment	0-35ºC at <50% RH; 0-30ºC at <80% RH
Power Requirements	100-120 VAC, 50/60 Hz, 8A or 220-240 VAC, 50/60 Hz, 4A
Dimensions	18.5” L x 12.7” W x 9.5” H (47 cm L x 32.3 cm W x 24 cm H)
Weight	31 lbs. (14 kg)
Warranty	Two years, factory parts and labor (one year international)
Rear Panel Connections	Ethernet, serial port, parallel port
Display	1/4 VGA, 320 x 240 pixel, color
Certifications	UL, CE

Methods & Regulatory Compliance

- 21 CFR PART 11 COMPLIANT (OPTIONAL): Meet regulatory compliance standards for pharmaceutical and medical device companies.
- ASTM D6980-12: Standard Test Method for Determination of Moisture in Plastics by Loss in Weight.
- ASTM D7232-06: Standard Test Method for Rapid Determination of the Nonvolatile Content of Coatings by Loss in Weight.
- ASTM C471M-16a: Standard Test Methods for Chemical Analysis of Gypsum and Gypsum Products (Metric).

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