INTELLIGENT ≝CHOICE for RAPID, ACCURATE MOISTURE/SOLIDS ANALYSIS





Fast Accurate Easy to use



SELECT YOUR METHOD



WEIGH YOUR SAMPLE

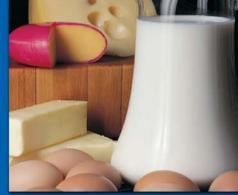


PRESS "START"

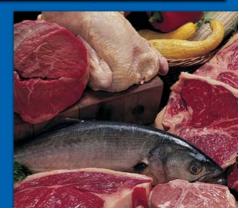
IT'S THAT SIMPLE! ACCURATE RESULTS IN MINUTES FOR A WIDE VARIETY OF SAMPLE TYPES!











ENHANCED TECHNOLOGY SUPERIOR RESULTS



AOAC-APPROVED METHODS also complies with other standard methods ACCURATE test precision to 0.01% BUILT-IN MEMORY Stores 100 methods & 300 test results



For more than 30 years, CEM's award-winning line of moisture/solids analyzers have been the instruments of choice for companies around the world who depend on our fast, accurate results for their process and quality control.

The SMART Turbo takes all of the popular features of the SMART System⁵ to the next level. Redesigned for higher performance standards, the SMART Turbo is 40% faster than its predecessor. Enhanced technology improvements ensure decreased analysis time while maintaining precise temperature control for the most accurate results.

TURBO TECHNOLOGY



The SMART Turbo is the fastest microwave drying system available. Samples reach optimal drying temperature in less than 5 seconds.

- Fast! Moisture/solids analysis with turbo power
- SMART Turbo is now up to 40% faster
- Improve Process Control
- Increase Profits



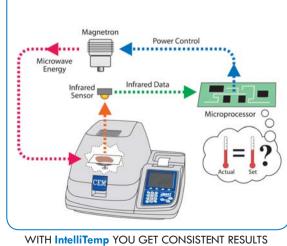
IntelliTemp

Accurate Weight Monitoring and Precise Temperature Measurement for Results You Can Depend On

The **SMART Turbo** is the only microwave moisture/solids analyzer that provides high precision and accuracy by:

- Constantly monitors weight loss
- Continuously monitors sample temperature
- Adjusts microwave power in real time

THE IntelliTemp[™] ADVANTAGE



EVEN IF SAMPLES ARE ANALYZED BY DIFFERENT OPERATORS IN DIFFERENT LOCATIONS.



SIMPLE

The **SMART Turbo** features easy-to-use software available in 5 languages — English, Spanish, French, Italian and German — enabling multinational companies to standardize testing procedures at all facilities. Up to 300 results can be stored to perform statistical analysis. Software can be interfaced with corporate information technology systems.

STABLE

Calibration is sample independent. Once calibrated, there is never a need to update the calibration model

VERSATILE

Compact and rugged, the **SMART Turbo** can be utilized on the production floor or in the laboratory. It accurately analyzes a variety of sample types including solids, powders or slurries (0.1 - 99.9% moisture) in a wide range of applications including difficult or temperature-sensitive samples.

- Pharmaceuticals
- Dairy
- Meat
- Chemicals
- Water







SMART ACCESSORIES

CEM CommunicatorTM Data Management Software



- Automatic data collection
- Advanced charting features
- Method specific data storage

CEM SAMPLE PADS

For optimum results with the **SMART Turbo**, use genuine CEM sample pads. These highquality, glass fiber pads are manufactured in an ISO-approved facility in a controlled environment to avoid excess moisture, which can cause inconsistent results.



UPGRADES

UPGRADE TO SMART Trac II For all types of products

AOAC-compliant moisture and fat analysis in minutes without solvents or costly calibrations!



Ideal for all types of fat, oil, lipid and surfactant analysis in dairy, meats, pet foods and chemicals.

UPGRADE TO SMART ProFat For raw meat

Analyze raw meat and poultry and pre-blends for moisture, as well as calculated fat and protein content.



GMP AND GLP COMPLIANCE... CEM has all the tools to simplify your work

- NIST temperature traceable reference
- NIST traceable weight
- Periodic maintenance programs
- Monitor reference standard programs



FOR OVER 30 YEARS, CHEMISTS HAVE DEPENDED ON CEM TO CREATE PROGRESSIVE AND INNOVATIVE TECHNOLOGIES THAT PROVIDE ADVANCED SOLUTIONS FOR CRITICAL LABORATORY APPLICATIONS.

SMART TURBO SYSTEM SPECIFICATIONS

Instrument Dimensions	22.0 in (w) x 23.3 in (d) x 14.5 in (h) 55.9 cm (w) x 59.1 cm (d) x 36.8 cm (h)
Weight	55 lbs, 25 kg
Moisture/Solids Range	0.01% to 99.9%, 0.01% resolution
Balance	Capacity: 50 grams, 0.1 mg readability
Program/Data Storage	100 methods, 300 results
Standard Software	Constant Weight & Time, Fat, Moisture, TS, TSS, TVSS, Dilutions, Syringe Weighing
Data Entry	Keypad with menu-driven software
Display	Black and white VGA (320 x 240)
Accessory Ports	Two serial, RS232 nine-pin ports for external balance, computer or barcode, one parallel port, 25 pin, for external printer
Standard Printer	Internal impact printer
Electrical Requirements	110-127 VAC, 60Hz, 10 Amps; 220-240 VAC, 50/60 HZ, 5 Amps 100 VAC, 50/60Hz, 10 Amps; 200-208 VAC, 50/60 HZ, 5 Amps
Patents	CEM SMART Turbo System is covered by the following US patents: 4,438,5000 4,457,632 4,554,132 4,129,775 4,753,889. Other US patents pending.

Innovative R&D

- Over 300 patents
- Award winning engineering & design
- Over 25,000 systems placed worldwide
- 10 R&D 100 Awards

Expert Global Support & Service

- Experienced application support
- Worldwide network of factory-trained field service technicians
- Online and telephone technical support available 24/7

"Our commitment to you doesn't end when your system is shipped: it begins."

~Michael Collins, President CEM

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