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Orion TURBO2® Volumetric Blending Titrator

There is no need to worry about increasing moisture levels by crushing or pulverizing a sample during sample preparation.

The TURBO2 is an excellent way to analyze moisture in solid samples that typically require a lot of sample preparation.



Karl Fischer Volumetric Blending Titrator Orion TURBO2

- Sample Blending at 7500 rpm - complete moisture extraction from solid samples into solution with little or no sample preparation.
- Large 750 ml Titration Vessel - allows multiple sample analysis to be run using same solvent(s).
- Water Jacket Vessel - use with circulating bath to maintain constant temperature which enhances moisture extraction in difficult samples.

Combine the standard technique of Karl Fischer moisture analysis with a high speed blender revolving at 7500 rpm and you have the TURBO2. This technique eliminates the problem of moisture loss or gain associated with standard sample preparation procedures. The TURBO2 is an excellent way to analyze moisture in pharmaceutical, confectionery or solid samples that typically require a lot of sample preparation. Sample preparation has been a great source of error

in moisture determination in pharmaceutical products such as tablets, gelcaps or caplets. The TURBO2 will blend the sample, extract, and analyze the moisture in the same vessel, then print a report containing results, methods and statistics for FDA compliance. Simply weigh and introduce any solid or semi-solid sample such as tablets, pills, candy, or gum into the vessel and obtain an accurate moisture result in minutes.

Orion TURBO2®

TURBO2 is an excellent way to analyze moisture in solid samples that typically require a lot of sample preparation.

Orion TURBO2 Specifications

	Specification	Benefit
Titration Method	Volumetric	Easy to maintain
Moisture Range	50 ppm to 100% H ₂ O	Handle a wide range of sample moisture levels with one instrument
Precision	0.5% at 25 mg H ₂ O	High precision analysis
Calibration Range	1 to 100 mg H ₂ O	Linear calibrations
End-Point Time/Level	1 to 30 seconds	Fast sample analysis
Background Correction	Yes	
Factor Range	0.1 to 100%	Many moisture standards can be used
Blank Range	0 to 100 mg	
Programmable Methods	3 stored methods, 2 default methods	Great for multi-user labs
Result Units	ppm - % - mg	Result units of your choice
Display	LCD, 2 lines x 20 characters	Easy to read
Keyboard	Membrane, 18-function	Chemically resistant
Printer (Internal)	32 character, thermal	No additional printer needed
Statistics Up to 25 tests	Yes	Increased quality
Stirrer Speeds	1000 to 7500 rpm	High rpm for difficult samples
Interfaces:	(2) RS232	Balance and computer
Vessel Capacity	750 mL	Stack many samples
Reagent Handling	Peristaltic Pump	Easy to calibrate
Dimensions	H 27 cm, 10.5 in W 23 cm, 9 in D 35 cm, 13.7 in	
Electronic Console	H 20 cm, 8 in W 37 cm, 15 in D 34 cm, 14 in	
Agency Approval	CE	Worldwide operation

Above data generated under optimal/controlled circumstances.

Orion TURBO2 Ordering information

Orion #	Description
319050001	TURBO2, Blending Volumetric Karl Fischer Titrator complete with built-in printer, 750 mL titration vessel, dual RS-232 interface, line cord, spare silicone pump tubing and extra roll of printer paper, 110V.
319050000	TURBO2, Blending Volumetric Karl Fischer Titrator complete with built-in printer, 750 mL titration vessel, dual RS-232 interface, line cord, spare silicone pump tubing and extra roll of printer paper, 220V.