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## Orion AF8

Volumetric Titrator

The Orion AF8 sets international standards for rapid determination of moisture in a wide range of materials. Push button convenience with the highest accuracy and precision are all designed into the Orion AF8.



### Karl Fischer Volumetric Titrator Orion AF8

- Broad Operating Range - 50 ppm to 100% moisture.
- Special Reagent Delivery - stepper motor-controlled, high precision peristaltic pump.
- Unique Glass-to-Glass Vessel - sealing design ensures there is always a moisture tight seal to the reaction vessel; no rubber gaskets that can be attacked by organic solvents.

Operating reagent, solvent and waste containers are plumbed directly to the Orion AF8 titration vessel, creating a fully sealed chemical handling system. The Orion AF8's unique continuous titrant dispensing system eliminates the inconvenience of refilling burettes. The modular design has the advantage of keeping corrosive chemicals away from the instrument

electronics, providing maximum long-term reliability. A top-entry opening of the vessel can accommodate a syringe needle for liquids or solid samples up to 23 mm across. This sample vessel is very easy to remove and clean if analyzing messy samples. The Orion AF8 is easy to assemble and will improve your labs productivity.

# Orion AF8

The complete titration procedure from the introduction of a sample to the presentation of results is carried out by a microprocessor-control led routine, which can be pre-programmed by the operator to optimize conditions best suited to the particular material being analyzed. Calibration confidence is assured because the standardization routine automatically rejects flawed results. Statistics can be performed on up to 25 sequential samples and may calculate the mean moisture level, standard deviation, the coefficient of variance and the number of samples analyzed.

## Orion AF8 Specifications

	Specification	Benefit
Titration Method	Volumetric	Easy to maintain, easy to use
Moisture Range	50 ppm to 100% H <sub>2</sub> O	Wide operating range
Precision	0.4% at 25 mg H <sub>2</sub> O	Great reproducibility
End Point Potential	Variable	Flexible user interface
Calibration Range	1 to 100 mg H <sub>2</sub> O	Use a variety of cal standards
End-Point Time/Level	1 to 30 seconds	
Factor Range	0.1 to 100%	
Blank Range	0 to 100 mg	Subtract blanks for best accuracy
Programmable Methods	3 stored methods, 1 default methods	Best 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, 22-function	Chemically resistant
Printer (Internal)	32 character, thermal	
Statistics	25 tests	Increase laboratory QC
Stirrer Speeds	200 to 1400 rpm	Mix samples before analysis
Interfaces	(2) RS232 for	Balance and computer
Vessel Capacity	100/275 mL	Includes two vessels for your choice
Reagent Handling	Peristaltic Pump	Easy to maintain
Titration vessel	H 27 cm, 10.5 in W 23 cm, 9 in D 35 cm, 13.7 in	Use in a vent hood or on a bench
Electronic Console	H 20 cm, 8 in W 37 cm, 15 in D 34 cm, 14 in	
Agency Approval	CE	World wide operation

Above data generated under optimal/controlled circumstances.

## Orion AF8 Ordering information

Orion #	Description
319045001	Model AF8 Karl Fischer Volumetric Titrator complete with built-in printer, large & small titration vessels, and small vessel adaptor, dual RS-232 interface, large & small stir bars, reagent & waste bottles, spare silicone pump tubing extra roll of printer paper, 110V.
319045000	Model AF8 Karl Fischer Volumetric Titrator complete with built-in printer, large & small titration vessels, and small vessel adaptor, dual RS-232 interface, large & small stir bars, reagent & waste bottles, spare silicone pump tubing and extra roll of printer paper, 220V.