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Orion AF7 Coulometric Titrator

The Orion AF7's flexibility is its ability to perform coulometric titrations at both low and high currents. The high current mode enables high moisture analysis in just seconds!



Karl Fischer Coulometric Titrator Orion AF7

- Orion AF7 The Fastest Coulometric Titrator - 20,000 micrograms (20 mg) of water titrated per minute - (high current mode).
- Completely Sealed Chemical Handling System - integral pump controlled from keypad; easy, safe replenishment of reagents without opening vessel to environmental humidity.
- Orion AF7 - Unmatched speed and accuracy.

Utilizing the extremely accurate technique of coulometric iodine generation, Orion coulometric titrators take moisture measurement to new limits of performance within a wide measuring range of 1 ppm to 100% H₂O. The Orion AF7 is a universal titrator for measuring both high and low moisture. This titrator makes

coulometric titrations a routine measurement technique, giving the user reliable results with unmatched speed and accuracy. The Orion AF7 is the universal answer for the widest range of moisture analysis, offering coulometric accuracy and precision at volumetric titrator speed.

Orion AF7

The AF7's flexibility is reflected in its ability to perform coulometric titrations at both low and high currents. The AF7 titration vessel has exceptionally large-area platinum electrodes which, when used with high conductivity reagents, provide the current necessary to operate at the titration rate of 20 mg per minute analysis of water, the typical rate of volumetric titrators.

Orion AF7 Specifications

	Specification	Benefit
Titration Method	Coulometric	Low-level moisture analysis in seconds
Titration Speed: High Current Low Current	20 mg/min 2 mg/min	Fastest coulometric titrator available
Moisture Range	1 ppm to 100% H ₂ O	Widest measuring range
Precision	0.7% at 10 mg H ₂ O	Great precision at low-levels
End Point Potential	Fixed	
End-Point Time/Level	1 to 50 µg/min	Flexible end-point time for research purposes
Background Correction	Yes	
Factor Range	0.1 to 100%	
Blank Range	0 to 100 mg	
Programmable Methods	3 stored methods, 1 default methods	Great for multiple labs
Result Units	ppm - % - mg	Result units of your choice
Display	LCD, 2 lines x 20 characters	Easy to read
Keyboard	Membrane, 24-function	
Printer (Internal)	24 character, thermal	No additional printer required
Statistics Up to 25 tests	Yes	Verify results, suspect results flagged
Stirrer Speeds	200 to 1000 rpm	
Interfaces	(2) RS232 for	Balance and Computer
Vessel Capacity	150/200 mL	Less need to replenish reagents
Reagent Handling	Built in Pump	Completely sealed chemical handling system
Dimensions	H 54 cm, 21 in W 33 cm, 13 in D 24 cm, 9 in	
Agency Approval	CE	Worldwide operation

Above data generated under optimal/controlled circumstances.

Orion AF7 Ordering information

Orion #	Description
319035001	Orion AF7 Karl Fischer Coulometric Titrator complete with special high/low current titration vessel and electrodes, built-in vessel fill/drain pumping system, built-in printer, (2) reagent and (2) waste bottles, dual RS-232 interface and accessory kit. 105-120 VAC, 50-60 Hz.
319035002	Orion AF7 Karl Fischer Coulometric Titrator complete with special high/low current titration vessel and electrodes, built-in vessel fill/drain pumping system, built-in printer, (2) reagent and (2) waste bottles, dual RS-232 interface and accessory kit. 210-240 VAC, 50-60 Hz.