

Advanced Model "AQ/AQV-2200A"



WE CAN

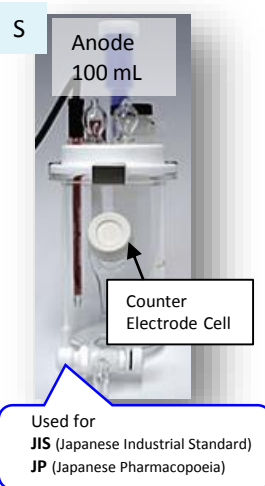
Detect wide range water content!
Regardless of sample state!

10 ppm
~ 100 %!

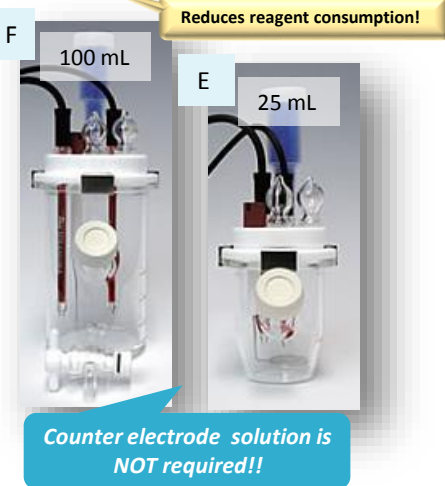
Liquid, Solid, Gas!

Comparison between Standard (2-Chamber) Cell and Single-Chamber Cell on Coulometric KF Titrator

Standard Cell



Single-Chamber Cell



Statistical calculation results (n = 3)

	Water Standard	Toluene	Cleaning solvent
	Standard Cell		
Mean.	996.0 ppm	53.5 ppm	568.5 ppm
SD	1.0 ppm	0.2 ppm	1.8 ppm
RSD	0.10 %	0.43 %	0.3 %
	Single-Chamber Cell		
Mean.	997.0 ppm	52.7 ppm	571.1 ppm
SD	0.7 ppm	0.5 ppm	3.4 ppm
RSD	0.07 %	0.94 %	0.6 %

*F&E cannot be used for nitro compounds samples.

Almost identical results!

Water content in Lubricant

AQ-2200AS Coulometric KF Titrator + EV-2000L Oil Evaporator



Distillation solvent toluene and N₂ carrier gas are used.

KF Coulometric +

Azeotropic distillation method

Procedure

- 1) Add toluene into the evaporation chamber and heat at 120 °C to remove the water.
- 2) Inject the lubricant sample into the toluene and heat to evaporate water from the sample.
- 3) The water introduced into the KF cell by N₂ gas is coulometrically measured.

Results

No.	Sample Size (g)	Water Content (ppm)	Statistical calculation results
1	1.4552	172.1	Mean. 170.5 ppm
2	1.6188	167.5	SD 2.6 ppm
3	1.6799	172.0	RSD 1.5 %

Exporter

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www.hitachi-hightech.com/global/hhs/
Head Office

24-14, Nishi-Shimbashi 1-chome, Minato-Ku,
Tokyo, 105-0003, Japan

Manufacturer

Hiranuma Sangyo Co., Ltd.

www.hiranuma.com/english/index.html

1739, Motoyoshida, Mito, Ibaraki, 310-0836, Japan
info-f@hiranuma.com

Contact