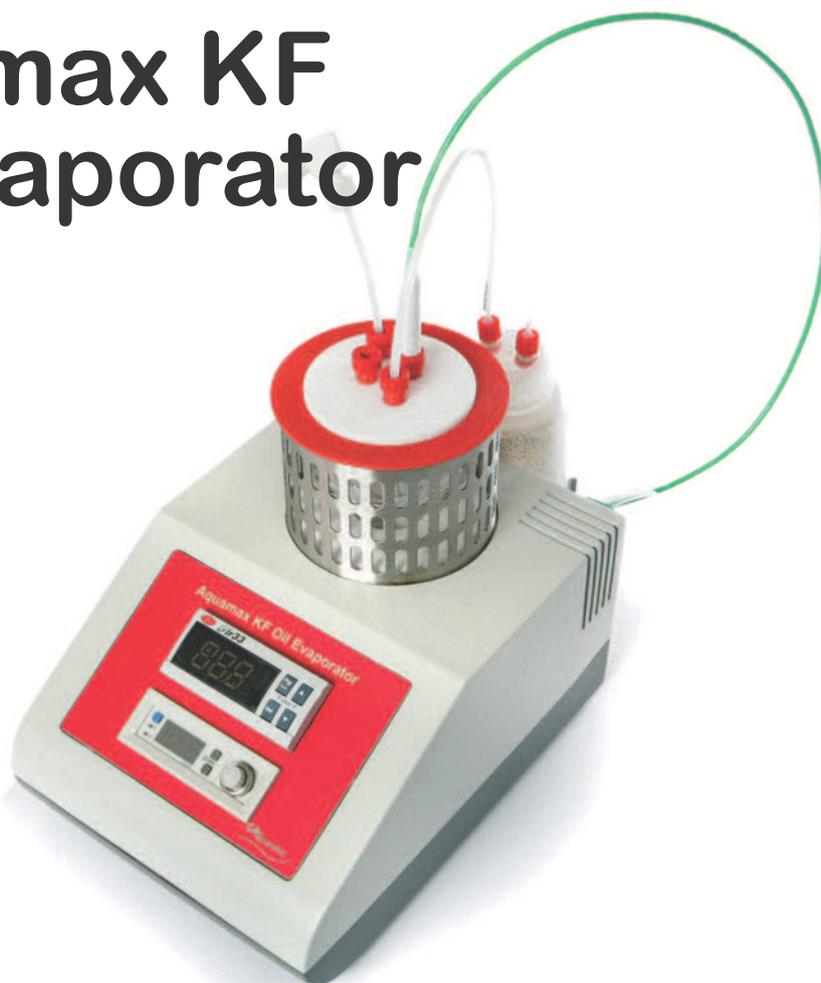


*A Truly Versatile
Karl Fischer EVAPORATOR*



Aquamax KF Oil Evaporator



Aquamax KF Oil Evaporator

The Aquamax KF Oil Evaporator model 51000 has been designed as a "standalone" unit so that it can be used in conjunction with most leading models of coulometric and volumetric Karl Fischer titrators and to comply with the requirements of ASTM method D6304, "Standard test method for determination of water in petroleum products, lubricating oils and additives by Coulometric Karl Fischer titration".

It is important to know the water content of lubricating oils, additives and similar samples to enable accurate prediction of performance and quality. The presence of water in such samples could lead to corrosion and wear of machinery and reduce the effectiveness of the lubricating additives.



The oven temperature can be adjusted from ambient to 200°C and a digital carrier gas flow setting of 300 ml per minute.

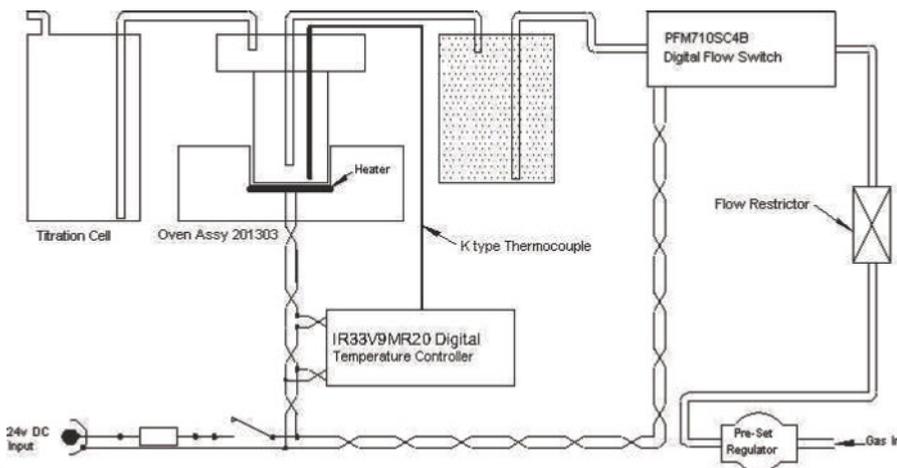


Adjusting carrier gas flow.



Setting temperature.

Oil Evaporator Schematic





Methodology

To conform to ASTM D6304 procedure C

0, 5 grams sample is made up to 10 ml with dried hexane, shaken until dissolved, and then a 1.0 ml aliquot is injected into the base oil of the oil evaporator. The liberated moisture is transferred into the titration vessel by the carrier gas where it is titrated coulometrically



Application

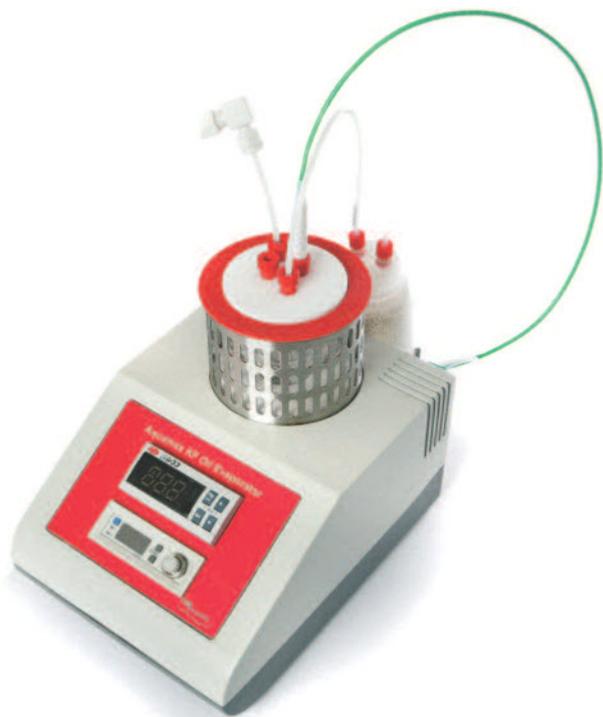
Determination of water in additives , lube oils , base oils , automotive transmission fluids , Hydrocarbons viscous samples , solvents , and other petroleum products

Areas of application:

- Petrochemical
- Aviation
- Power (electricity)
- Chemicals
- Contract Laboratories
- Gases
- Universities
- Automotive
- Pharmaceuticals & Toiletries / Cosmetics

Technical Specifications

Heater type:	Silcon mat heater
Temperature range:	Ambient to 200°C
Temperature control:	Digital setting
Gas flow control:	Digital setting
Carrier gas:	Nitrogen gas (not supplied)
Desiccant:	Molecular sieve
Power supply:	24VDC, 100-240 VAC, 50-60 Hz
Dimensions:	18 x 24 x 21 cm
Weight:	3Kg



Ordering Information

Part No.	Product
51000	Aquamax KF Oil Evaporator
Supplied Accessories (also available as spare items)	
51-0101	Glass Vessel
51-0102	Vessel lid
51-0103	Red compression fittings (pack of 4)
51-0104	Injection septa 8 mm (Pack of 20)
51-0105	Vessel gas distribution tube
51-0106	Pack 1 large and 3 small Orings
51-0107	Gas inlet tube with 3 way cock
51-0108	Gas outlet tube
51-0109	Desiccant bottle
51-0110	Bottle molecular sieve
51-0111	Thermocouple K type
51-0112	Pack of 4 plastic tubes

Additional Accessories

Part No.	Product
51-0113	Base Oil 1 Liter
51-0114	Mains power pack
51-0115	Silicone grease (tube)

Certificates

All Aquamax KF Coulometric titrators are supplied with a calibration certificate traceable to national standards.



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For additional technical informations visit www.gecil.com