



### Specifications

Method	Volumetric Karl Fischer Titration
End Point Detection	Constant Current Polarization Potential Difference
Measurement Range	0.1mg to 999.999mg H <sub>2</sub> O
Titration Flask	150ml
Buret	Syringe type: 5ml Accuracy ±0.01ml (when dispensing 4ml)
Data Files	1 x Factor File 3 x Sample Parameter Files
Stirring Method	Magnetic Stirrer
Display	5.7inch Color LCD Touch Panel
Languages	English, Japanese, Spanish, and more Contact local distributor for other languages.
Calculation	Concentration based on editable formula, Statistical calculation, Recalculation
Printer	Dot Impact Printer (Optional)
Connectable Vaporizers	VA-200, VA-210, VA-230, VG-200 (Step Temperature Control available on all Models)
External I/O	USB x 2: PC, Keyboard, Memory, Reagent Dispensing System RS-232C x 2: Printer, Balance, Vaporizers
Working Environment	Temperature: 15 to 40°C Humidity: <85%, No Condensation
Power Supply	AC100/120/220/240V (50/60Hz), 60VA
Dimensions	Approx. 230(W) x 350(D) x 360(H) mm
Weight	Approx. 3.8kg



### Specifications

Method	Coulometric Karl Fischer Titration
Electrolysis Control	Constant Current Pulse Time Control
End Point Detection	Constant Current Polarization Potential Difference
Electrolysis Current	430mA
Titration Rate	Average 2.2mg H <sub>2</sub> O/min (36µg H <sub>2</sub> O/sec)
Background	Automatic Correction, Constant Display Background level at start of measurement is displayed.
Measurement Range	10µg to 999.9999mg H <sub>2</sub> O
Sensitivity	0.1µg H <sub>2</sub> O
Repeatability	<0.3%RSD at 1mg or more H <sub>2</sub> O
Stirring Method	Magnetic Stirrer
Display	5.7 inch Color LCD Touch Panel
Languages	English, Japanese, Spanish, and more Contact local distributor for other languages.
Calculation	Concentration based on editable formula. Statistical calculation, Recalculation
Printer	Dot Impact Printer (Optional)
Connectable Vaporizers	VA-200, VA-210, VA-230, VG-200 (Step Temperature Control available on all Models)
External I/O	USB x 2: PC, Keyboard, Memory, Reagent Dispensing System RS-232C x 2: Printer, Balance, Vaporizers
Working Environment	Temperature: 5 to 40°C Humidity: <85%, No Condensation
Power Supply	AC 100/120/220/240V (50/60Hz) 60VA
Dimensions	Main Unit (without cell and battery) Approx. 220(W) x 350(D) x 360(H)mm
Weight	Main Unit Approx. 3.8kg (without cell and battery) Approx. 6.6kg (with battery)

Analysis for Solution

## Karl Fischer Moisture Meter

# CA/KF-31

SAKURA PINK



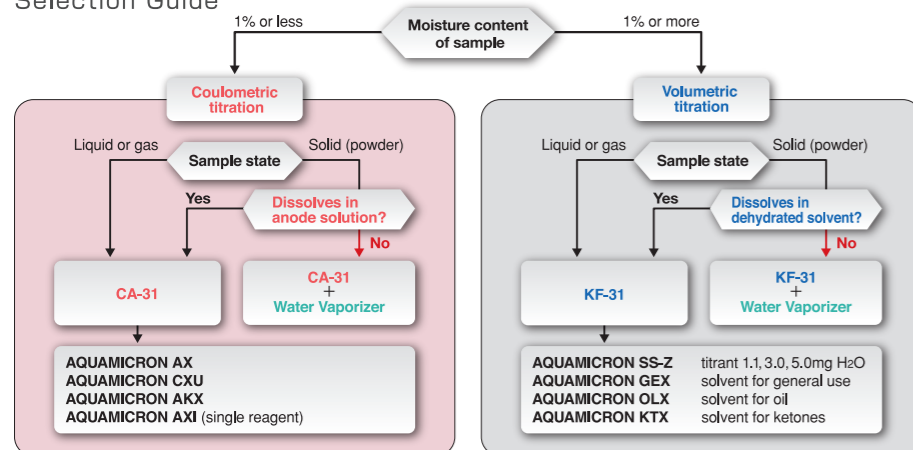
From the land of beautiful cherry blossoms and superior technological craftsmanship comes the new generation Karl Fischer moisture meter Model CA-31/KF-31



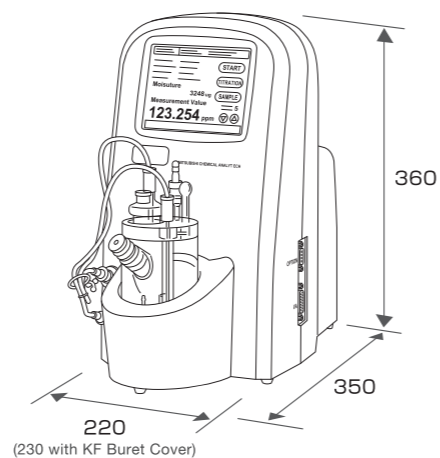
SAMURAI BLACK

# Compact Convertible Cost Efficient

### Selection Guide



### Dimensions (mm)



\*Some substances may not be applicable to the process flow shown above.



Mitsubishi's Aquamicron Brand KF Reagents  
**AQUAMICRON**

Note:  
Follow instructions in manuals to correctly install, connect and operate the instruments. Contents of catalogues are subject to change without prior notice when improvements are made in performance. The actual color of the goods may appear different from color printed. All screen images are simulated.  
\*Company and product names contained herein are the trademarks or registered trademarks of the company concerned.

## MITSUBISHI CHEMICAL ANALYTECH CO., LTD.

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URL: <http://www.mccat.co.jp/global/>

CAT No.27050215051E

MITSUBISHI CHEMICAL ANALYTECH CO., LTD.

KF-31

**Compact, Convertible, Cost Efficient**  
 The new Karl Fischer moisture meter Model KF-31 is equipped with a buret for volumetric titration and can also be used as a coulometric unit by simply replacing the titration cell.

Convertible

One and Only!



Volumetric Setup

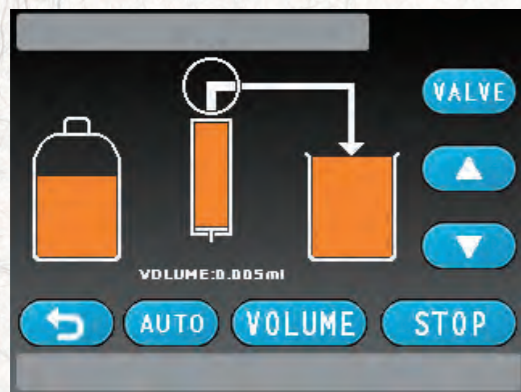
Coulometric Setup

Model KF-31 initially comes with a titration flask for volumetric titration. By adding a coulometric cell, the same unit can be used as coulometric Karl Fischer instrument. No more need to buy 2 instruments to cover all of your Karl Fischer needs. The KF-31 will run both volumetric and coulometric measurements for you just with this one compact unit!

**Features**

5.7-inch Color LCD Touch Panel

Easy to view, easy to operate. All of the essential information in one view. Simple buttons to set parameters and start measurement.



Connect Vaporizers

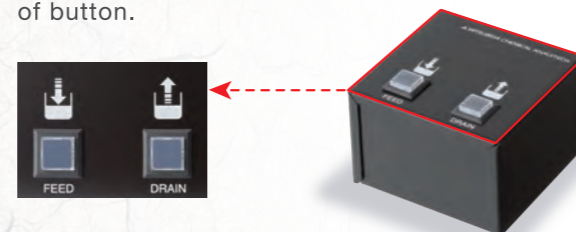
Vaporizers from the 200 series can be connected to CA-31/KF-31. This expands the scope of measurable samples to nearly everything. By using the step temperature function, the suitable temperature for an unknown sample can be easily determined

**Connectable Models: VA-200, VA-210, VA-230, VG-200**

\*Additional power box is necessary for VA-200  
 \*Additional VA stand is recommended for VA-230.

Automatic Reagent Dispensing System

Dispose and dispense reagent with one push of button.



CA-31

**Simple, Fast, Accurate.**  
 The all new coulometric Karl Fischer moisture meter from Mitsubishi.

Simple

Just press START and inject sample to obtain moisture content in ppm or %.

Portable

The unit can be taken out to the field for on site measurement with optional carrying case.



Applications



Measure moisture in nearly any sample. Useful instrument in any type of analytical lab.



Monitor moisture level of insulating oil in power stations



Process control in petrochemical plants

Carrying Case

The optional carrying case with battery enables the CA-31 to be transported and used at any location.



**Exhaust tube**

No more replacement of dessicant.  
 The newly designed exhaust tube frees you from additional maintenance!



Model	KF-31	CA-31	
Method	Volumetric	Coulometric (2-reagent System)	Coulometric (Single Reagent System)
Standard Packages			
Part Number	Black: KF31BF * PINK: KF31PF	Black: CA31BF * PINK: CA31PF	Black: CA31BSVF * PINK: CA31PSVF