

Coulometric Karl Fischer Titrator

AQ-300

Compact & Low price



1. COMPACT!

- ✓ All components are integrated in a small footprint of 31 cm (W) x 27 cm (D).
- ✓ Saves valuable bench space.

2. SIMPLE!

✓ No need to determine the KF reagent titre. Just flip the POWER on, the titrator will be ready to run within 30 minutes. Simple as 1, 2, 3, GO!

3. POWERFUL!

- √ 4 user defined methods can be stored in memory and easily recalled according to samples.
- ✓ Up to 20 results can be stored with statistics calculation.
- ✓ Detection limit goes down to several ppm.

4. SATISFACTION!

- Equipped with two RS-232C ports for balance and computer connection.
- Standard package includes AQUANet data download software, instruction movie, application guidebook and more.



AQ-300 Standard Specifications

C and the state of			
Titration method	Coulometric titration process.		
Electrolytic control method	Constant current electrolysis, intermittent electrolysis in the vicinity of the end point only.		
End point detection	AC polarization potential difference detection.		
Titration control method	Automatic endpoint stop system:		
	(1) Wait-time (INTERVAL) controlled; duration from 1 - 99 sec.		
	(2) Titration time (T-TIMER) controlled; duration from 1 - 99 min.		
Measuring range	10 μg H ₂ O - 99 mg H ₂ O		
Automatic background compensation range	0 - 50 μg H ₂ O/min.		
Accuracy	Within CV of 0.3 %, When water - methanol (1mg H ₂ O/mL) 1 g is measured 10 times.		
Required measuring time	FAST: 1.2 mg H ₂ O/min. (20 µgH ₂ O/sec.), SLOW: 0.6 mg H ₂ O/min. (10 µgH ₂ O/sec.)		
Titration cell capacity	150 mL		
Display screen	2-lines by 16 digits with backlit LCD		
Display unit	μgH ₂ 0, ppm, %		
Calculation function	Concentration calculation, Statistics calculation		
File function	4 files for titration parameters		
Memory data capacity	20 data		
Printers	Optional thermal printer; PRINTY3, Optional impact printer; CBM-910-40PF		
Printout Contents	Date, Sample number, Measurement value(µgH2O), Sample quantity, Moisture content, Mean value,		
	Standard deviation, CV, Moisture quantity-time curve, Other preset titration parameters.		
External input/output	RS-232C; 2 ports		
	Port 1 (BALANCE): Connection to electronic balance. Port 2 (HOST): Connection to external computer.		
Power supply ; Power consumption	AC 100 - 240 V, 50/60 Hz & 100 VA		
Dimensions & Weight	W 310 mm x D 270 mm x H 300 mm; Approx. 5 kg		

Optional unit

Thermal Printer PRINTY3 (Paper width:80mm)

Dot Impact Printer CBM-910-40PF (Paper width:58mm)

Solid Evaporator EV-2000 (For solid/powder samples)

EV-2000 vaporizes water of a solid / powder sample by heating. Ideal for "the solid / powder sample that it is difficult to measure it directly". Operation key-pad is necessary for use.

Oil Evaporator EV-2000L (For Oil, Paint and other liquid samples)

Utilizing azeotropic distillation, EV-2000L separates moisture from sample matrices and introduces into the titration cell. Interference form sample matrix is minimized and titration time is shortened.

Ordering Information **AQ-300 Instrument Part Numbers**

Part No.	Model / Part Name	Description		
Coulometric Karl-Fischer Titrators				
D320095-A	Coulometric K.F.			
	Titrator AQ-300			
Printers				
D310251-A	Thermal Printer	Power supply: AC120V w/ cable		
	PRINTY3	Paper width 80mm		
D310251-B	Thermal Printer	Power supply: AC240V w/ cable		
	PRINTY3	Paper width 80mm		
D310255-A	Dot Impact Printer	Power supply: AC120V w/cable		
	CBM-910-40PF	Paper width 58mm		
D310255-B	Dot Impact Printer	Power supply: AC240V w/cable		
	CBM-910-40PF	Paper width 58mm		
Evaporators				
D310158-B	Solid Evaporator	For Solid sample (*1)(*2)		
	EV-2000			
D310168-B	Oil Evaporator	For Oil, Paint and other liquid		
	EV-2000L	samples		
D315016-A	Operation key-pad	Required when EV-2000 is used with		
	for EV-2000	AQ-300 and AQV-300		

Part No.	Model / Part Name	Description
Samplers and others optional		
E780512-B	Micro Solid Sampler	For Solid/powder sample.
E730016-A	Micro - Micro Solid	Injection device of a sample in
	Sampler	micro capsule.
E730017-A	Grease Sampler	For viscosity samples such
		as grease.
E320302-A	Gas Sample Forming	For gaseous sample. (*2)
	Tube	
E320060-A	Liquefied-Gas Sample	For Liquefied-Gas Sampling. (*2)
	Forming Tube	
E320268-A	Drying tube with	For Gas/Liquefied-Gas Sample.
	3way stop valve	Forming Tube.
D310513-A	Dry Air Pump	Carrier gas pump for EV-2000,
		EV-2000L and EV-2010.

- *1: Operation key-pad is necessary for use.
- *2: Extra, please prepare Drying tube with 3 way stop valve P/N E320268-A. It is necessary for prevention of deterioration of a desiccating agent.

Generally a company name printing in this catalogue and a product name are a trademark of the company or registered trademarks.

The product color may vary from the actual product due to printing qualities.

Appearance, specification, etc. are subject to change for improvement without prior notice.

For safe and appropriate use, please be sure to read the "Instruction Manual" before using the product. [Note]

Exporter:



(O) Hitachi High-Technologies Corporation

1-24-14, Nishi shimbashi, Minato-Ku, Tokyo, Japan 105-8717 Phone: 81-3-3504-7239 Fax: 81-3-3504-7302

http://www.hitachi-hitec.com/science/

🖶 Hiranuma Sangyo Co., Ltd.

Head Office & Factory

1739, Motoyoshidacho, Mito-Shi, Ibaraki, Japan 310-0836

Phone: 81-29-247-6411 Fax: 81-29-247-6942

http://www.hiranuma.com

Distributor:

JM SCIENCE INC

355, Lang Blvd, PO Box 250, Grand Island, NY 14072

Phone: 1-800-495-1678 Fax: 716-774-8708 Email: sales@jmscience.com

http://www.jmscience.com