

Volumetric Karl Fischer Titrator

AQV-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. VERSATILE!

- A wide variety of titrants and solvents can be used.
- Accommodates samples with different matrices, moisture concentration.

## 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.
- √ Wide range detection from 100 ppm to 100%.

## 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.



### HIRANUMA

### **AQV-300** Standard Specifications

Titration method	Volumetric Karl-Fischer titration process	
Titration control method	Intermittent titrant addition while approaching the end point.	
	(1) Wait-time (INTERVAL) controlled; duration from 1 - 99 sec.	
	(2) Titration time (T-TIMER) controlled; duration from 1 - 99 min.	
End point detection	AC polarization potential difference detection.	
Buret	Number of burets: 1, Capacity: 10 mL, Accuracy: within +/-0.15 % (for full discharge, n=5),	
	Reproducibility: +/-0.01 mL (for full discharge, standard deviation for n=5)	
Tubing	Teflon tube of 2 mm(ID) and 3 mm(OD)	
Switching valve	Automatic switching valve with ceramic joint.	
Measuring range	0.1 mgH <sub>2</sub> O - 500 mgH <sub>2</sub> O (10 ppm - 100 %)	
Minimum volume of addition	0.005 mL	
Titration cell capacity	150 mL (Minimum volume of consumption: About 30 mL)	
Display screen	2-lines by 32 digits with backlit LCD	
Display unit	mL, mgH <sub>2</sub> O, % or ppm	
Calculation function	Concentration calculation, Factor standardization, Statistics calculation	
File function	4 files for titration parameters	
Memory data capacity	20 data	
Printers	Optional thermal printer; PR-2000T2(PRINTY3), Optional impact printer; PR-302B(CBM-910-40PF)	
Printout Contents	Measurement date, Sample number, Titration volume(mL), Measurement value(mgH <sub>2</sub> O), 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): Data input from balance or data input.	
	Port 2 (HOST): Command instructions from host 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. 6 kg	

### Optional unit

- Thermal Printer PR-2000T2 (Paper width:80mm)
   Dot Impact Printer PR-302B (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 AQV-300 Instrument Part Numbers

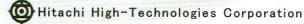
Part No.	Model / Part Name	Description
■Volumetric	Karl-Fischer Titrators	
D320098-B	Volumetric K.F. Titrator AQV-300	
Printers		
D200651-A	Thermal Printer PR-2000T2	Power supply: AC120V w/ cable
D200651-B	Thermal Printer PR-2000T2	Power supply: AC240V w/ cable
D200655-A	Dot Impact Printer PR-302B	Power supply: AC120V w/cable
D200655-B	Dot Impact Printer PR-302B	Power supply: AC240V w/cable
<b>■</b> Evaporator	3	
D310158-B	Solid Evaporator EV-2000	For Solid sample (*1)(*2)
D3101608B	Oil Evaporator EV-2000L	For Oil, Paint and other liquid samples
D315016-A	Operation key-pad for EV-2000	Required when EV-2000 is used with AQ-300 and AQV-300

Part No.	Model / Part Name	Description
■Samplers a	and others optional	
E780512·B	Micro Solid Sampler	For Solid/powder sample.
E730016-A	Micro · Micro Solid Sampler	Injection device of a sample in micro capsule.
E730017-A	Grease Sampler	For viscosity samples such as grease.
E320302-A	Gas Sample Forming Tube	For gaseous sample. (*2)
E320060-A	Liquefied-Gas Sample Forming Tube	For Liquefied-Gas Sampling. (*2)
E320268-A	Drying tube with 3way stopcock	For Gas/Liquefied-Gas Sample. 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 stopcock 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.

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

#### Exporter:

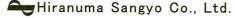


Head Office

1-24-14, Nishi shimbashi, Minato-Ku, Tokyo, Japan 105-8717

Tel: 81-3-3504-7239 Fax: 81-3-3504-7302 http://www.hitachi-hitec.com/science/

#### Manufacturer:



Head Office & Factory 1739, Motoyoshidacho Mito-Shi, Ibaraki, Japan 310-0836 Tel: 81-29-247-6411 Fax: 81-29-247-6942 http://www.hiranuma.com

