

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.

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 ₂ O - 500 mgH ₂ 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 16 digits with backlit LCD
Display unit	mL, mgH ₂ 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; PRINTY3, Optional impact printer; CBM-910-40PF
Printout Contents	Measurement date, Sample number, Titration volume(mL), Measurement value(mgH ₂ 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 PRINTY-3 (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 AQV-300 Instrument Part Numbers

Part No.	Model / Part Name	Description
Volumetric Karl-Fischer Titrators		
D320098-A	Volumetric K.F. Titrator AQV-300	
Printers		
D310251-A	Thermal Printer PRINTY3	Power supply: AC120V w/ cable Paper width 80mm
D310251-B	Thermal Printer PRINTY3	Power supply: AC240V w/ cable Paper width 80mm
D310255-A	Dot Impact Printer CBM-910-40PF	Power supply: AC120V w/cable Paper width 58mm
D310255-B	Dot Impact Printer CBM-910-40PF	Power supply: AC240V w/cable Paper width 58mm
Evaporators		
D310158-B	Solid Evaporator EV-2000	For Solid sample (*1)(*2)
D310168-B	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 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 stop valve	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 stop valve P/N E320268-A. It is necessary for prevention of deterioration of a desiccating agent.

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

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