



0086 16601757347
inquiry@yukelab.com
www.yukelab.com
0086 021 59570209

Automatic Viscometer IVS400-6 Automatic cleaning/addition of DX series to realize automatic liquid filling



Product introduction

IVS400 is an upgraded model on the basis of IVS300, realizing the functions of continuous automatic cleaning, automatic measurement, automatic waste discharge and automatic drying.

Performance Features

Δ Dual-mode on-line cleaning

- No need to dismantle the viscometer, the waste liquid can be drained directly and the viscometer can be rinsed by adding cleaning agent or the next sample;
- Continuous measurement, the new sample to replace the old sample, simulating the manual cleaning method, high-frequency pulsed repeated automatic squeeze cleaning, immersion cleaning hovering immersion, and even difficult-to-clean polymers can be cleaned.;
- Greatly reduce the exposure of experimental personnel to toxic chemical reagents, to ensure the safety of experimental operators;
- Single reagent dosage of 10-12 ml, rinse volume is less than 12 ml, the remaining 13 ml for measurement.

Δ Automatic Liquid Filling (Optional)

- Configuration of automatic liquid filling module, 1-3 kinds of reagents can be selected, the test is completed automatically add liquid, automatic cleaning, automatic liquid discharge, automatic drying.

Δ Intelligent waste liquid collection

- No matter how many measurement units are selected, only one set of waste liquid collection device is needed to complete waste liquid collection.
- The waste liquid device is set up for separate collection, which is conducive to waste liquid treatment and recycling, saving and protecting the environment.

Δ Software Function Integration

- Measurement and cleaning functions are integrated in the same software, which is easy for experimenters to operate without switching;

- QDS/LIMS system can be connected, and the experimental data can be uploaded automatically to realize the intelligent laboratory.

Technical Parameters

Model No.	IVS400-2	IVS400-4	IVS400-6
Measuring time range	0.001-9999.999(s)	0.001-9999.999(s)	0.001-9999.999(s)
Temperature control range	15-90°C	15-90°C	15-90°C
Viscosity range	0.3-100000(mm ² /s)	0.3-100000(mm ² /s)	0.3-100000(mm ² /s)
Test Temperature Field Uniformity	≤±0.01°C	≤±0.01°C	≤±0.01°C
Timing accuracy	0.001s	0.001s	0.001s
Wireless distance	30m	30m	30m
Testing station	2	4	6
Water bath volume(L)	25	33	41
Dimension of water bath(mm)	640×270×600	850×270×600	1020×270×600
Cooling system size(mm)	200×360×380	200×360×380	200×360×380
Power supply / power	220V50HZ/1200KW	220V50HZ/1200KW	220V50HZ/1200KW

DX-Series Connection (Optional)

The IVS400 Automatic Viscometer connects to the DX Series to automate the addition of liquids and complete the entire viscosity testing process.



DX10



DX30

Product Model	DX10	DX30
Pipetting accuracy	1%	1%
Dosing volume	1-250ml	1-250ml
Channel number	2-4	2-4
Working environment humidity	20-80%, no condensation	
Rotary	/	12



Measurable Sample Results

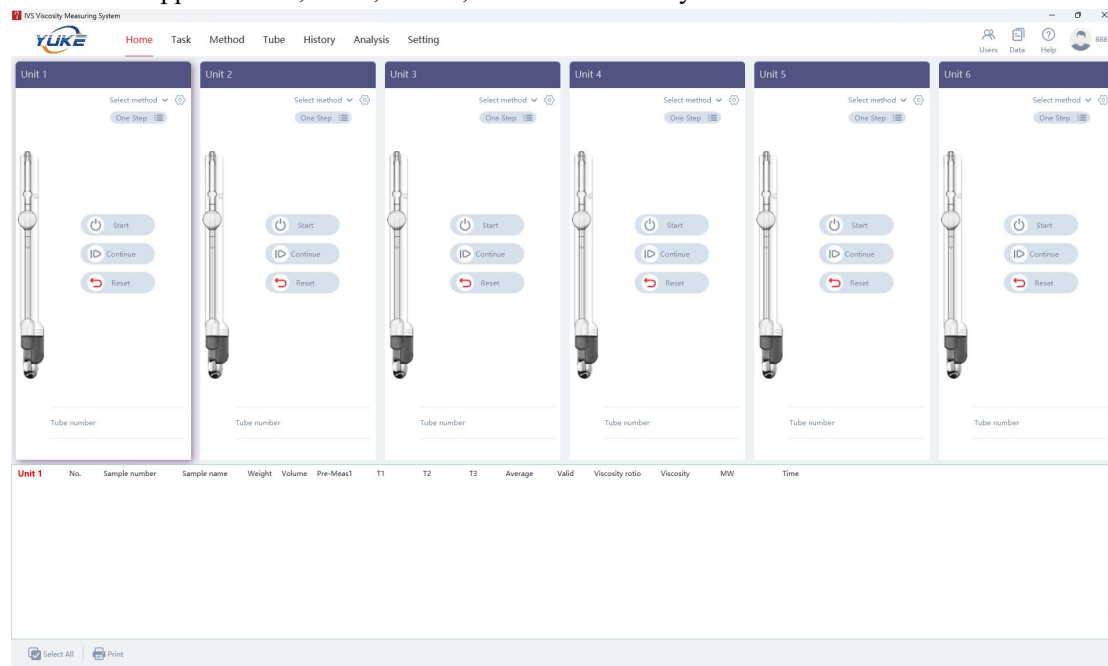
Characteristic Viscosity (Viscosity Number) ; Relative Viscosity; Value Specific Viscosity Value (Viscosity Number) ; Fickentscher's K-Value Viscosity average molecular weight value ; Kinematic viscosity value; Degree of polymerization Kinetic viscosity Measured standard/absolute/percentage deviation values Logarithmic viscosity (logarithmic viscosity) ; Time and average value

Measurement Methods

Single-point method; Serial extrapolation; Solomonciuta method; Billmeyer method; Martin method; Huggins method; SchulzBlaschke method; Point/slope method; Marone method

IVS400 software function

- Viscosee professional software with English & Chinese interface ;
- Display the operation status of each measuring head, and can control 6 measuring heads at the same time;
- The system intelligently determines whether test results exceed the deviation threshold and automatically initiates retesting when required;
- Single viscometer multi-concentration serial extrapolation function;
- Each measuring unit can be calculated independently according to the required calculation formula;
- The software has a new function of data statistics;
- Special formulas can be customized;
- Authority level operation, User management;
- Experimental data can be exported in picture, Excel and PDF formats;
- Software supports Win7, Win8, Win10, Win11 and other systems.





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Packing List

No.	Product	Type	QTY
1	High precision water bath	VT6	1 set
2	Cooling system	SC400	1 set
3	Measuring head	IVS400	6 sets
4	Safety bottle for measuring head	Glass bottle	6 pcs
5	Control box	MC-300B	1 set
6	Viscometer software		1 set
7	Software key		1 set
8	Stabilized pressure vacuum pump	V80	1 set
9	0.01°C standard thermometer	0.01 °C Digital thermometer	1 Set
10	Ubbelohde capillary viscometer	Size depend on buyer's request	12 pcs
11	Viscometer holder	Stainless steel	6 pcs
12	6-position viscometer holder rack	Stainless steel	1 Pcs
13	Filter funnel	G2	12 pcs
14	Double port waste liquid bottle	2L	2 pcs
15	Discharge tube	2.5mm	6 pcs
16	Three hole GL45 blue bottle cap		2 pcs
18	Installation package	Notes	1 set
19	Computer	Not provided (any laptop, computer, with USB port will be fine)	1 set
20	Documents	Certificate,warranty card,instructions	1 set

Installation package: Power cable*4, water flow indicator*1, data line *1, measuring unit connection line *6, water changer* 1, 0.8~1.0m water pipe* 2, 0.8~1.0m insulation pipe *2, hexagonal wrench *1, brush* 1, fuse *2 , horizontal bubble *1.