

Houillon Viscosity Reinvented

S-flow Kinematic Viscometry system

FOR PETROLEUM PRODUCTS



"The newest generation of S-flow systems offers the ultimate in fast, accurate viscosity testing and now also features an optional autosampler for fully unattended operation".



AUTO
SAMPLER



SMALL SAMPLE
VOLUME



HIGH
THROUGHPUT



LOW SOLVENT
CONSUMPTION



HIGHLY
ACCURATE

FEATURES

- Optional autosampler
- Simultaneous tests at 2 temperatures
- High throughput: up to 80 samples per hour
- Fast & easy tube replacement

The S-flow range of instruments consist of compact, bench-top automated viscometry systems for the analysis of Newtonian fluids. It complies fully with in ASTM D7279 and as such, gives full correlation with ASTM D445. It is the ideal system for used oil labs that need to test a wide range of lubricant viscosities.

Fast & accurate

The latest generation of S-flow builds on the strong foundation of its predecessors to offer the ultimate in automatic viscosity testing of Newtonian samples such as petroleum products. The system offers all the tried and tested advantages of a Houillon-type tube design such as short process times, small sample volume and low solvent consumption, but now also includes an optional autosampler to allow for fully unattended operation. All controlled from a central software interface that takes care of result storage, auto-sampler control, calculations and much more. The new

S-flow range consists of two main models, both within the same footprint. The standard configuration with a single bath containing 4 tubes and a second model with 2 independent baths with 2 tubes, providing dual temperature measurements in an extremely compact package. Other options include dual solvent cleaning and integrated duplo testing which obtains 2 flowtime determinations with only 1 sample injection.

Additional parameters such as tube constants and cleaning cycle are also controlled by the operator, because the sample volume is very low (0.3-1 ml), the entire measurement cycle is very short. cycle time ranges between 3-10 minutes per tube, allowing a throughput of up to 80 tests per hour. After the injection of the sample, operator presence is no longer required.

All measurement parameters can be set through the 12" touchscreen or through the complementary software. The diagnostic system alerts the operator to possible issues such as empty solvent supply tanks, full waste bottle, insufficient vacuum, etc. The optional auto-sampler is fully modular and can be installed aftermarket, meaning the analyzer can be purchased first and then upgrade to auto-sampling when the need arises.

Compliant with ASTM D7279, ASTM 2270
Correlating with ASTM D445

S-flow KINEMATIC VISCOMETRY SYSTEM FOR PETROLEUM PRODUCTS

SPECIFICATIONS

Features	Single bath	Double bath
Number of baths	1	2
Viscometers per bath	4	2
Standard methods	Compliant with ASTM D7279, ASTM 2270 Correlating with ASTM D445	
Built-in VI calculation	Yes	
Measuring range	0.3 - 3,000 mm ² /s @40°C	
Temperature range	20 - 120°C *	
Temperature stability	Better than ±0.02°C	
Timer resolution	0.001 s	
Sample volume	0.3 - 1.0 ml	
Solvent consumption	2 - 3 ml per cycle	
Samples per hour	40 - 80 **	
Viscometer type	Houillon	
Sensor type	Optical, self-calibrating	
Time measurement	Automatic	
Integrated cleaning pump	Yes	
Solvent injection	Automatic	
Warmup prior to measuring	Yes	
PC Control	Multiple instruments controlled with 1 PC	
Touchscreen	12" capacitive	
Instrument dimensions	43 x 58 x 66 cm / 17 x 23 x 26 in (w x d x h)	
Weight	55 kg, 122 lbs	
Data export	USB storage device	
Power requirement	1 kW; 115 / 240 V - 50 / 60 Hz	

* For temperatures around ambient, an external chiller is required.

** Measurements per hour; depends on sample viscosity, tube, operating temperatures and solvents.

THE S-flow IS SUPPLIED WITH

Viscometer tubes
Starter kit
Reference standards
Bath oil

OPTIONS AND ACCESSORIES

Autosampler
Duplo measurement
Dual solvent injection
Advanced PC software
External cooling system
Air compressor
Silicone oil



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