

S-flow® 3000 VI

OmniTek proudly introduces its newest development in the S-flow range of viscometry systems, the S-flow 3000 VI. This directly follows from many of our customers' requests for a single system which can perform measurements at two temperatures and with the built-in capacity to calculate the Viscosity Index, based on the results from the two individually controlled baths.

Controlled through an advanced central touch screen display, all parameters can be easily accessed. The system is so compact that it only takes 60% of the space of two single systems, saving costly laboratory space. Naturally, the new system retains all the benefits the single S-flow 1200 offers such as fully automatic time measurements and a fully configurable cleaning cycle. Additionally, it gives the user a unique way of quickly determining viscosity at two temperatures and obtaining a viscosity index with unprecedented ease !



Below is an overview of the most common tube sizes. Any tube can be supplied on request.

Nominal constant mm ² /s ²	Measuring range mm ² /s	Nominal constant mm ² /s ²	Measuring range mm ² /s
0.01	0.6-1.0	0.30	18-30
0.02	1.2-2.0	0.40	24-40
0.03	1.8-3.0	0.50	30-50
0.04	2.4-4.0	0.70	42-70
0.05	3.0-5.0	1.00	60-100
0.07	4.2-7.0	2.00	120-200
0.10	6-10	3.00	180-300
0.15	9-15	5.00	300-500
0.20	12-20	10.00	600-1000

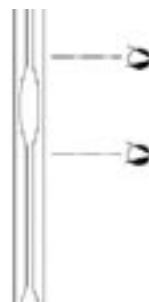
Above chart is based on flow times of 60-100 seconds, which can be regarded as normal flow times for the S-flow viscometer tubes. Should you wish to observe measurement times of 200 seconds as prescribed by ASTM D445, change the constant accordingly



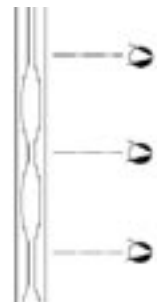
Dual measurement upgrade

The optional dual measurement upgrade adds another array of optical fibers to the instrument, bringing the total number of detection points to three per tube instead of two (see schematics). Together with adapted S-flow tubes, which are fitted with two measuring trajectories, this enables the S-flow 1200 to perform two time measurements with a single sample injection, increasing productivity, saving even more on solvent consumption and giving instant insight in test repeatability.

Single measurement



Double measurement





Technical Specifications* :

Standard Methods :	ASTM D445, D446, ISO 3104 ASTM D2270 on calculation Viscosity Index
Measuring range :	0.6 – 3000 cSt
Timer accuracy :	± 0.0025 sec
Meniscus detection :	Optical
Solvent injection :	Automatic, optional dual solvent
Display :	Touch screen LCD
Temperature range :	20 – 110°C
Temperature stability :	± 0.01°C@40°C, ±0.03°C@100°C
Cooling spiral :	integrated, for connection to external cooling bath
Viscometers :	4 S-flow® measuring tubes per bath
External printer :	optional
Dimensions :	700 x 475 x 620 mm (l x w x h)
Weight (empty) :	62 kg.

External Requirements

Compressed air: 5-6 Bar @ approx. 100 l/min

Optional accessories / upgrades:

Dual/duplo measurement upgrade
Dual solvent injection upgrade
External printer to print out results and viscosity index
PC software for instrument control and Data Acquisition
Backflush kit to clean clogged tubes

Conforms to CE

* Due to our constant efforts for improvement, these specifications are subject to modification without prior notice

Our range of viscometry systems is supplied worldwide through a dedicated network of specialized distributors, that are all capable of installing, maintaining and servicing the instruments.

Please contact us if you require contact information for your local dealer.

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