

Houillon viscosity automated Cito S-flow IV Autosampler

FOR HIGH THROUGHPUT AND
UNATTENDED OPERATION

"Optional S-flow IV autosampler for fully unattended operation, high quality repeated sample testing with a high throughput. It is fast, reliable and customizable for different sample rack set-ups"



AUTO
SAMPLER



EXCELLENT
REPEATABILITY



HIGH
THROUGHPUT



SERVICES UP TO
2 SYSTEMS



HIGHLY
ACCURATE

- Modular high speed autosampler
- Services up to 2 S-flow IV instruments (8 tubes)
- Can be added in-field to any S-flow IV unit
- 384 sample capacity offers 8-12 h unattended operation
- Automatic sample level detection
- Process up to 80 injections per hour at 2 temperatures

Following the success of the Cito, Omnitek developed a new generation for the popular viscosity autosampler, further increasing throughput, capacity and reliability. Integrating perfectly with S-flow IV operation, it makes Houillon viscosity testing even more accurate and easier than before. With its unattended operation, Cito is able to service 8 tubes, is customizable for different sample racks and can be added to any existing S-flow IV system in-field.

The new Cito model now also includes an integrated drip-prevention system, ensuring the system can operate free of spillage or carry-over.

Fast & accurate

Cito offers high-throughput sampling, eliminating any errors that could be caused by incorrect injection and frees up the operator to attend to other duties. It works fully autonomously, requiring no operator presence. Cito consists of a custom-built Cartesian robot mounted on a base frame that can reach and serve up to two S-flow IV instruments, one on each side.

The optimized Cito work area provides sample space to store 6 pipette racks (with optionally different tips for standard and high-viscosity samples) and 4 sample racks. Below the work area is a large drawer to store consumables, as well as storage for the tips that were discarded after an injection.

High throughput & Viscosity Index measurement

Cito automatically detects the level in each individual sample vial, thereby minimizing tip immersion depth. In addition, a new drip-prevention mechanism places a retractable reservoir below the pipette to catch any droplet that may fall from the tip, eliminating any potential spillage or carry-over. From a single sample aspiration, 2 sequential injections in 2 independent baths can be performed using only a single pipette tip. When injecting into tubes at 40 °C and 100 °C, the PC software automatically provides the Viscosity Index. Up to 80 injections per hour can be performed at 2 temperatures in this manner, provided that 2 S-flow IV systems are connected.

Options and accessories

Omnitek offers standardized sample racks that can contain up to 4 racks of 96 samples each, with a total of 384 positions, using 12 ml sample vials often utilized by automatic sample preparation systems. Omnitek offers the possibility of customizing a sample rack to facilitate the use of an existing sample cup or vial. For users with high sample throughput an upgrade from 1 L to 5 L waste/solvent bottles is available.

Cito S-flow IV Autosampler for high throughput and unattended operation

SPECIFICATIONS

Features	Cito S-flow IV Autosampler
Tip types	1000 µL standard pipette tip
	Wide bore tip, used for samples with higher viscosities
Viscosity range of the sample	2 - 2,500 mm ² /s @25 °C
Dimensions ^{ab}	171 cm x 77 cm x 82 cm (w x d x h)
Weight	86 kg
Data export	From PC software
Electrical requirements	200 W; 100 - 240 VAC, 50 - 60 Hz

^a Physical dimensions for Cito are regardless of combination with 1 S-flow IV system or 2 S-flow IV systems on each side.

^b Leave an additional 40 cm free next to each S-flow IV to handle the solvent bottles

OPTIONS & UPGRADES

Description	Options
Pipette tips	Standard or wide bore
Upgrade Solvent/Waste bottles	From 1 to 5 L
Waste/Solvent bottles holder	Available on request
Custom sample rack	Available on request



SAMPLE RACK TYPES

Version	Sample rack 12 ml vials	Custom sample rack
Max. sample racks	4	On request
Samples / rack	96	
Max. no. of samples	Up to 384	
Pipette tip racks	6	
Total no. of tips	576	



OMNITEK

Coenecoop 715 Tel : +31 (0)182-302990
 2741 PW Waddinxveen Fax : +31 (0)182-302999
 The Netherlands sales@omnitek.nl

www.omnitek.nl

Your authorized distributor is:

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