

# 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. The system is even customizable for different sample tray set-ups".



- Modular high speed autosampler
- Services up to 2 S-flow IV+ instruments (8 tubes)
- Can be added later to any S-flow IV+ unit
- Customizable to allow different sample holders

After various requests from the market, Omnitek developed Cito: a robotic arm to service the S-flow IV+ viscometer. Integrating perfectly with S-flow IV+ operation, it makes Houillon viscosity testing even more accurate and fast. No more injecting samples by hand, without negating quality and speed. Cito easily services 8 tubes, is customizable for different sample trays, and can be added to any existing S-flow IV+ system in-field.

## Fast & accurate

Cito offers high-throughput sampling, eliminates any errors that could be caused by the incorrect injection, and frees the operator up to attend to other tasks. It works fully autonomously, requiring no operating presence overnight.

Cito consists of a custom robotic arm that is mounted onto a base frame, which can reach and serve up to two S-flow IV instruments, one on either side. Around the base and on the flat top of Cito sufficient space is offered to store pipette racks and sample trays.

## High throughput Viscosity Index measurement

From a single sample aspiration, 2 sequential injections in 2 independent S-flow IV baths can be performed, giving access directly to the Viscosity Index of the sample. In this way, operator is able to test at 40 °C and 100 °C using only one pipette tip.

## Options and accessories

Omnitek offers a range of standardized sample trays. The first tray-type offers 2 trays with a total of 96 samples, using 30 ml sample cups that allow for easy filling. The other type contains 2 trays with a total of 192 samples, using 12 ml sample vials often utilized by automatic sample preparation systems. Omnitek offers the possibility of customizing a sample tray to facilitate the use of your sample cup or vial.



# 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 viscosities higher than 450 mm <sup>2</sup> /s @25 °C
Viscosity range of the sample <sup>a</sup>	2 - 2,500 mm <sup>2</sup> /s @25 °C
Dimensions for:	(w x d x h)
Cito <sup>b</sup>	60 cm x 71 cm x 120 cm (24" x 28" x 48")
Cito with 1 S-flow IV <sup>b</sup>	101 cm x 71 cm x 120 cm (40" x 28" x 48")
Cito with 2 S-flow IV's <sup>b</sup>	162 cm x 71 cm x 120 cm (64" x 28" x 48")
Weight	53 kg (117 lb)
Data export	From PC software
Electrical requirements	100 - 240 VAC, 50 - 60 Hz

<sup>a</sup> At ambient temperatures

<sup>b</sup> Physical dimensions, leave an additional 40 cm free next to each S-flow IV to handle the solvent bottles



## SAMPLE TRAY TYPES

Version	Sample tray 30 ml cups	Sample tray 12 ml cups	Custom sample tray
Trays number	2	2	Sample tray on request
Positions number	48	96	
Total positions number	96	192	
Tip racks numbers	3	7	
Total tips number	288	672	



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