PORTABLE AUTOMATIC SAMPLERS

QH SERVIS manufactures two lines of portable automatic samplers - SIMPLY SAMPler and SOFT SAMPler, differing in features and control units. Each line is made in several versions: economy, boxed, mobile and cooled.

SIMPLY SAMPler

Simple automatic water sampler with all basic functions for sampling in time, volume, flow and phenomena-based modes.
Sampling is provided by a peristaltic pump. Before and after each sampling, the pump is reversed to blow the hose clean. You may also wash the hose with the current sample for several times before sampling – the liquid is sucked up to the pump and released back.
The sampling program is stored in the configuration connector memory, which you connect to the unit to start the selected sampling program. Immediately after you attach the configuration connector, press the button to calibrate the required sample volume. While the program runs, use the same button to take an extra sample (manual sample). The sampler status is indicated by the button illumination through bi-color LED on the configuration connector. The used sampler operation system does not require display or keypad, ensuring easy operation. To operate the sampler, you may use several configuration connectors programmed for individual sampling modes, or you may use the configuration connector programming set including PC software, where you may adjust individual cycle periods as required.
Samples are taken to a suitable shared container. You may operate the sampler with the configuration connector in modes that depend on time or on phenomena, when a signal from a device that monitors the analyzed phenomenon (no-voltage contact) starts and stops sampling. For sampling where a single sample volume depends on the immediate flow, the unit must be connected to the analog signal from the flow-meter. By connecting the sampler with the flow-meter sending impulses once the required volume of water has flowed through, the sample takes one sample once it receives the impulse.

Technical data of individual versions:

MODEL	**ECONOMY**	**BOXED**	**MOBILE**	**COOLED**
				
Box material	PP- co-polymer	PP- co-polymer	PP- co-polymer	PE-HD
Thermostat control	*OPTION external cooling box*	*OPTION external cooling box*	*OPTION optional passive insulation*	Compressor cooling *OPTION – heating only when powered from mains*
Sampling system	Peristaltic pump, NORPREN pump hose, 9.5 mm diameter			
Sucking height	Max. 7 m – supplied sucking hose PVC 5 m / 10 mm diameter, with cap and screen			
Sample container	*OPTION*	*OPTION*	6.3l / PE	15l / PE
Power supply	battery 12V/12Ah	battery 12V/ 9Ah	battery 12V/ 9Ah / *OPTION 230V/12V 5A*	mains 230V/ 50Hz / *OPTION 24V/20Ah*
Dimensions (cm)	30 x 20 x 25	28 x 18 x 26	35 x 23 x 57	40 x 50 x 65
Weight	6.6 kg	5.7 kg	11.5 kg	16 kg

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SOFT SAMPler

Easy-to-use automatic water sampler that meets demanding requirements for programming, logging and connecting of external signals.
The sampler is controlled by Bond-OO-checK external memory, with real time circuitry. Before you start the sampling, use a PC to select the required sampling mode in the Bond-OO-checK. Launch the sampler by connecting the Bond-OO-checK to the sampler. Once connected, use the button to calibrate the required sample volume. The sampler status is indicated by the button backlight and the three-color LED on the Bond-OO-checK. The used sampler operation system requires neither display nor keypad, ensuring easy operation. While samples are being taken, the Bond-OO-checK stores sampling data (*sampling time, filled bottle, sample taken, sample room temperature, flowmeter and other measuring units signal values, sample temperature and other data*) that can later be uploaded to a PC, processed and printed as an amendment to the sampling protocol.
Sampling is provided by a peristaltic pump. Before and after each sampling, the pump is reversed to blow the hose clean. You may also wash the hose with the current sample for several times before sampling – the liquid is sucked up to the pump and discharged.
The SOFT SAMPler can be equipped with a distributor to store the sample in several containers.
Samples can be stored, depending on your version, into several containers using a distributor. The containers can be grouped and used for example when preservatives are used.
You may operate the sampler in modes based on time, flow, volume and phenomena. The Bond-OO-checK control unit features immediate sampling, delayed start or sampling scheduled to calendar days.
In the phenomena mode, the sampling can be controlled by numerous signals (*temperature from an external sensor, water level sensor signal, analog signal and digital input*.

Technical data of individual sampler versions:

	SOFT SAMPler	**SIMPLY SAMPler**
External control memory	Bond-OO-checK	Configuration connector
Real time	YES	NO
Number of containers	1 *Option – distributor to 4 -12 -24 bottles*	1
Programing	Via PC with OS WIN XP and higher using SW SOFT SAMPler and USB SAMPler programing kit	Via PC with OS WIN XP and higher using SW SOFT SAMPler and USB SAMPler programing kit
Sampling mode	Time, amount, flow, phenomenon	Time, amount (1 pulse = 1 sample), flow, phenomenon
Interval	2 min – 16 hod	1 min – 15 hod
Bottle filling	1 - 240	1 – 255 samples – or continuous
Memory	1 loaded program	1 loaded program
Control	Via calibration button after connecting of Bond -OO-checK, or via external signal	Via calibration button after connecting of the configuration connector, or via external signal
Status indication	LED on Bond-OO-checK – flashes/shines combination of 3 colors	LED on the configuration connector – flashes/shines combination of 2 colors
Inputs	2 x analog 0(4) – 20 mA 8 x digital – potential-free contact 2 x temperature sensor 1 x level sensor	1 x analog 0(4) – 20 mA 3 x digital – potential-free contact
Data logging	YES	NO

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