Bühler 3010 Stationary automatic water sampler

Product #:	**BU3011.XX.XXXXX**
AED Price:	Contact Hach

Stationary sampler using pressure-vacuum technology. With robust PE housing, microprocessor controlled refrigeration system and easy to clean sample bottles.

Operates in time-, volume- (flowproportional), or event-based mode. Compared to peristaltic methods the pressure-vacuum technology ensures high volume accuracy (due to dosing vessel). There is no wearing out of the sample tube.

The temperature controlled, weatherproof housing made of PE plastic ensures failure free operation over many years. Even under conditions where stainless steel usually corrodes.

The tropicalised cooling system ensures a sample storage at 4 °C up to an ambient temperature of 43 °C.

Thus the sample is refrigerated to exclude biological and chemical changes. To avoid cross contamination, the system is rinsed before and after each sample is taken. The pressure-vacuum sampler is ISO 5667 compliant and therefore satisfies the requirements for subsequent reproducible analysis.

For use in sewage treatment, industrial facilities and for monitoring surface waters.

Pressure-vacuum principle: Highly accurate sample volume
The sampler functions according to the pressure vacuum-principle and operates in time, volume (flow-proportional), or event-based mode. Compared to peristaltic methods the pressure vacuum technology ensures high volume accuracy (due to dosing vessel). There is no wearing out of the sample tube.

Lightweight, corrosion-free PE housing
The temperature controlled, weatherproof housing made of PE plastic ensures failure free operation over many years. Even under conditions where stainless steel usually corrodes.

Depending on the configuration the sampler's weight is approx. 60kg. Therefore installation locations can be changed without difficulty.

Tropicalised cooling system
The tropicalised cooling system ensures a sample storage at 4°C up to an ambient temperature of 43°C.

Thus the sample is refrigerated to exclude biological and chemical changes. To avoid cross contamination, the system is rinsed before and after each sample is taken.

Cost effective to buy and maintain
No consumables are needed.

Maintanance free pressure vacuum technology plus maintanance free motor driven valve system & motor driven pinch valve. It is not necessary to change the pump tubing or other pneumatic parts periodically.

Easy to clean sample container

Cleaning of the multiple bottle sample container takes 50% less time compared to wedge shaped bottles.

Specifications

Accessories:	Mobile model, interior lightning, base frame, intake device and much more
Ambient temperature:	-20 - 43 °C
Bottle filling time:	1 min - 999 h 59 min
Certifications:	CE, Sampling according to ISO 5667-2/3-10
Communication:	Optional: PC via Software Further communication options on request.
Controller:	Microprocessor control, Sleep-Mode (<5 mA), power supply 8-16 V, foil keyboard (with keys 0 - 9, ESC, ENT, cursor), graphical display (128 x 64 Pixel), backlit
Cooling principle:	Active cooling
Cooling system:	Self-contained, controlled cooling / heating with 4 settings, no-frost. independent of the programmable controller, temperature in sample compartment: 4 °C (adjustable from 0.0 - 9.9 °C)
Data storage:	3000 entries, non-volatile data memory; storage of sampling and malfunction data like sample extractions, bottle changes, messages, external signals
Dimensions:	1100 (1640*) mm x 760 mm x 745 mm (H x W x D)
Dosing system (sample):	Standard vacuum system Sample volume selectable: 20 to 350 mL
Housing details:	- Double-walled PE plastic with 50 mm insulation - Roof and cover material: Styrosun (GFK) - Cover lifted by gas-shock absorbers, wind safe - Easy to maintain - Suction inlet from right-hand side of housing
Housing insulation material:	PUR
Housing material:	PE
Housing type:	Stationary
Inputs:	1 x analogue: 0/4-20 mA 2 x digital (flow, event), Impulse length 60 ms, switching level 7-24 V, max. working resistance 500 Ohm, max. length of signal cable 30 m
Interface:	Mini-USB
Languages user interface:	Multi-language, selectable
Manual sampling:	Possible at any time, without interfering with the programme seqence.
Number of user programs:	6 user-defined sampling programs (freely programmable)
Operatin conditions:	Pressureless
Overfilling protection:	Adjustable from 1 - 999 samples/bottle
Pause Mode:	Interruption of program run at any time
Power requirements (Voltage):	115/230 V AC
Power supply:	Approx. 350 VA (with cooling)
Program protection:	Up to 5 years after voltage loss
Program Start Options:	Immediately; at a certain time; by an external signal
Program Stop Options:	End of sampling program after one program run; continuous operation or x- runs, and a certain date / time

Programs:	12 freely programmable user programs, with function to link programs
Sample container:	Plastic: 1 x 25 L; 1 x 50 L; 2 x 10 L; 4 x 10 L; 4 x 14 L; 12 x 2.9 L; 24 x 1.0 L
	Glass: 12 x 2.0 L; 24 x 0.9 L
Sample interval:	1 min to 99 h 59 min in steps of 1 minute
	1 to 9999 pulses/sample
Sample temperature:	0 - 40°C (32 - 104°F)
Sample transport velocity:	>0.5 m/s at suction height up to at least 8 m (at 1013 hPa); pump performance can be adjusted electronically
Sample volume:	20 - 350 mL freely adjustable
Sample volume accuracy:	1.5 % (95 % confidence interval)
Sampler type:	Stationary
Sampling mode:	Time-related, flow-proportional, constant time/ variable volume (CTVV), event-related, manual sample extraction
Sampling Principle:	Standard Vacuum System 20 - 350 mL
	Option: glass dosing vessel instead of plastic
Status messages:	Standard: collective malfunction error message
	Optional: Sampling, programme active, programme end message
Suction Height:	Max. 7.5 m (at 1013 hPa and stagnant medium), optional higher
Suction hose inner diameter (mm):	10 mm
Suction Hose Length:	7.5 m; max. hose length 30 m
Suction Hose Material:	PVC
Suction Hose Outer Diameter:	13 mm
Type of distributor:	Robust round distributor
Warranty:	24 months
Weight:	Approx. 75 kg with composite container, higher weight when using multi bottle option and/or glass bottles
Wetted Materials:	PC, PVC, Silicone, PS, PE, EPDM (optional: metering vessel glass Duran50, sinker weight SS304)