



Bühler 3010 Stationary automatic water sampler

Številka izdelka:	BU3011.XX.XXXXXX
EUR Cena:	Kontakt
Na voljo	

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.

Maintenance free pressure vacuum technology plus maintenance 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.

Specifikacije

Čas polnjenja steklenice:	1 min - 999 h 59 min
Certificiranje:	CE, Sampling according to ISO 5667-2/3-10
Dimenzija:	1100 (1640*) mm x 760 mm x 745 mm (H x W x D)
Dodatna oprema:	Mobile model, interior lightning, base frame, intake device and much more
Dolžina sesalne cevi:	7.5 m; max. hose length 30 m
Dosing system (sample):	Standard vacuum system
	Sample volume selectable: 20 to 350 mL
Garancija:	24 mesecev
Hladilni sistem:	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)
Interval vzorca:	1 min to 99 h 59 min in steps of 1 minute
	1 to 9999 pulses/sample
Izolacijski material ohišja:	PUR
jeziki:	Multi-language, selectable
Komunikacija:	Optional: PC via Software
	Further communication options on request.
Kontrolna enota:	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
Manual sampling:	Possible at any time, without interfering with the programme sequence.
Material ohišja:	Made of PE with 50 mm insulation/Styrosun/PC (GF10) housing; separated in lower part (sample compartment) and upper part (controller and dosing system). Each part with lockable door resp. roof. Protective hood (made of Styrosun) which can be opened for operation of the control unit and service at the dosing unit.
Material sesalne cevi:	PVC
Materiali v stiku z vodo:	PC, PVC, Silicone, PS, PE, EPDM (optional: metering vessel glass Duran50, sinker weight SS304)
Možnosti zagona programa:	Immediately; at a certain time; by an external signal
Možnosti zaustavitve programa:	End of sampling program after one program run; continuous operation or x- runs, and a certain date / time
Načelo vzorčenja:	Standard Vacuum System 20 - 350 mL
	Option: glass dosing vessel instead of plastic
Način ohlajevanja:	Active cooling
Način premora:	Interruption of program run at any time
Način vzorčenja:	Time-related, flow-proportional, constant time/ variable volume (CTVV), event-related, manual sample extraction
Napetost (V):	115/230 V AC
Natančnost prostornine vzorca:	1.5 % (95 % confidence interval)
Overfilling protection:	Adjustable from 1 - 999 samples/bottle
Podrobnosti o ohišju:	- 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
Posoda z vzorcem:	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
Program protection:	Up to 5 years after voltage loss
Programs:	12 freely programmable user programs, with function to link programs
Prostornina vzorca:	20 - 350 mL freely adjustable
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
Sesalna višina:	Max. 7.5 m (at 1013 hPa and stagnant medium), optional higher
Št. uporabniških programov:	6 user-defined sampling programs (freely programmable)
Status messages:	Standard: collective malfunction error message
	Optional: Sampling, programme active, programme end message
Suction hose inner diameter (mm):	10 mm
Suction Hose Outer Diameter:	13 mm
Temperatura okolja:	-20 - 43 °C
Temperatura vzorca:	0 - 40°C (32 - 104°F)
Teža:	Approx. 75 kg with composite container, higher weight when using multi bottle option and/or glass bottles
Tlak delovanja:	Pressureless
Vhodi:	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
Vmesnik:	Mini-USB
Vrsta distributorja:	Robust round distributor
Vrsta ohišja:	Stationary
Vrsta vzorčevalnika:	Stationary
Zapis podatkov:	3000 entries, non-volatile data memory; storage of sampling and malfunction data like sample extractions, bottle changes, messages, external signals