



Applications

- Sewer system
- Inlet and outlet of municipal and industrial waste water treatment plants
- Plant process monitoring
- Environmental monitoring

BÜHLER 3010 Stationary water sampler

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.

Representative samples in conformity with ISO 5667
All BÜHLER pressure vacuum samplers are ISO 5667 compliant: They satisfy the requirements for subsequent reproducible analysis.

Technical Data

Configuration (Article no.):

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Instrument
1 - Stationary automatic water sampler type BÜHLER 3011; PE plastic housing with 50mm insulation layer; ready to operate; with 5m suction tube (PVC, ID 9mm), gas shock absorber supported lid, RS232-Connector, 1x relay output for signal collective malfunction

2 - Stationary automatic water sampler type BÜHLER 3012; same as model 3010, plus interior lightning, 4 x relay outputs for signal collective malfunction and messages, programme active, Sampling and Programme end.

Mains connection
0 - 230 V mains, bare leads
1 - 230 V mains, EURO plug
2 - 230 V mains, GB plug
3 - 115 V mains, bare leads
4 - 230 V mains, CH plug

Bottle options
1 - 1 x 25 litre PE composite bottle
2 - 4 x 10 litre PE bottle, distributor system
3 - 4 x 14 litre PE bottle, distributor system
4 - 12 x 2 litre glass bottle, distributor system
5 - 12 x 2.9 litre PE bottle, distributor system
6 - 24 x 1 litre PE bottle; distributor system
7 - 24 x 0.9 litre glass bottle, distributor system
8 - 1 x 50 litre PE composite bottle
9 - 4 x 6.3 litre PE bottle, distributor system
A - 2 x 10 litre PE bottle, distributor system

Cooling system
0 - without cooling
1 - autarkic controlled refrigerator / heater; temperature sample compartment: 4°C
2 - autarkic controlled refrigerator / heater - EPOXY coated version; temperature sample compartment: 4°C

Sampling principle
Pressure-vacuum principle

Sample volume
20 to 350 ml

Suction height
Max. 8 m (at 1,013 hPa)

Suction velocity
>0.5 m/s for sample lift height of max. 7 m (at 1,013 hPa);
Pump performance electronically adjustable.

Suction hose length
7.5 m PVC tube (9 mm)

Bottle filling time
1 min to 999 h 59 min

Pause mode
1 min to 99 h 59 min

Sampling pacing modes
Time, volume and event based sampling.
Delayed start of programme selectable.

Manual sampling
Possible at any time, without interfering with the programme seqence.

Sample volume accuracy
1.5 % (95 % confidence interval)

Type of distributor
Robust round distributor

Dosing system
Standard vacuum system
Sample volume selectable: 20 to 350 ml

Signal inputs
1 x analogue: 4 to 20 mA, optional 0 to 20 mA, cut-off voltage 3.3 V

Signal outputs
Depending on model, up to 8 x digital (freely programmable)

No. of user programs
6 user-defined sampling programmes (freely programmable)

Status messages
Standard: collective malfunction error message
Optional: Sampling, programme active, programme end message

Thermal control
Independently regulated cooling and heating with two settings.
Temperature of sample section: 4°C (adjustable from 0.0 to 9.9°C)

Power requirements
230 V / 115 V, 350 VA (with cooling), fusing at least 10 A

Operating pressure
Pressureless

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

Operating temperature
-20 to +43 °C

Sample temperature
0.1 to 40 °C

Dimensions
Cover closed 1100 mm x 760 mm x 775 mm
Cover opened 1640 mm x 760 mm x 775 mm

Weight
About 60 kg with composite bottle (depending on final configuration)

Warranty
2 years

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Subject to change without notice.