



Applications

- Sewer system
- Monitoring of indirect dischargers
- Plant process optimisation
- Environmental monitoring
- Usage on vessels

BÜHLER 2000 Portable water sampler

Various bottle options permit flexible application: up to 24 x 1 L standard round sample bottles with active cooling!

Only BÜHLER samplers enable the option of 24 x 1 litre or 1 x 25 litre PE sample bottles, respectively 24 x 1 litre or 1 x 20 litre glass sample bottles, in combination with an active cooled sampler base! This is especially interesting for sampling in accordance to local regulation (24 x hourly mixed sample/daily mixed sample).

Lightweight, corrosion-free PE housing

The compact, weatherproof housing made of PE plastic ensures failure-free operation over many years and often changing installation locations. Even in extremely corrosive applications.

Always accurate sampling for correct analysis based on active or passive cooling

BÜHLER 2000 offers two cooling options for ensuring a sample storage at 4 °C:

- Passive with ice packs - no dealing with chemicals, which need to be refreshed after each use
- or
- Active with an integrated cooling machine including autarkic temperature control - for accurate temperature controlled sample conservation

Cost effective and low maintenance

No consumables are needed because the sampler functions according to the pressure-vacuum principle. It is not necessary to change any pump tubing.

Easy to clean sample container and distributor

Cleaning efforts are reduced to a minimum due to the new designed vat sample distributor and the standard round sample 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.

To avoid cross contamination, the system is purged before and after each sample is taken.

Technical Data

Configuration (Article no.):

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Sampling principle

Pressure-vacuum principle

Sample volume

20 to 350 mL freely adjustable

Suction height

Max. 6 m (at 1013 hPa and static medium)

Suction velocity

>0.5 m/s suction height up to 5 m (at 1013 hPa), membrane pump power electronically adjustable

Suction hose length

7.5 m (max. allowed length of suction tube 30 m)
PVC (9.5 mm)

Bottle filling time

1 min to 999 h 59 min

Pause mode

Pause of sampling programme at any time.

Sampling pacing modes

Time-, volume- and event-based sampling.
Delayed start of program selectable.

Manual sampling

Possible at any time, without interfering with the programme sequence.

Sample volume accuracy

1.5% (95% confidence interval)

Type of distributor

Robust round distributor (vat design)

Dosing system

Standard vacuum system

Signal inputs

1 × analogue: 4 to 20 mA, optional 0 to 20 mA, cut-off voltage 3.3 V (optical coupler)

Signal outputs

Max. 8 × digital: free to define, programmable (depending on sampler configuration)

No. of user programs

6 user defined sampling programmes (freely programmable)

Power requirements

12 V / 10 Ah rechargeable lead battery (maintenance free, closed, leak proof);
115 V AC or 230 V AC using charger and battery in buffer mode, secondary voltage 11 to 14 V DC

Sampling system option

- 6 Vacuum, ASF pump, 350 mL plastic vessel
- 8 Vacuum, ASF double head pump, 350 mL glass vessel
- A Vacuum, ASF pump, 350 mL glass vessel
- 0 Without sampler head

Base option

- 0 Without sampler base
- 3 Passive cooling base (ice-cooling)
- 5 Active cooling base (thermostatic controlled refrigeration)
- 6 Active cooling base w/o sampler head (thermostatic controlled refrigeration)

Sampler Power / Plug type option

- 5 Battery powered, Battery included
- 0 No sampler head, no power supply

Refrigerated base / Power supply option

- 6 230 V AC / 50 Hz with EU plug, plus 12 V DC input, with 12V power cable
- A 115 V AC / 50 Hz with bare leads, plus 12 V DC input, with 12 V power cable
- 7 12 V DC, with 12 V power cable
- 9 No refrigerated base

Bottle/Container options

- V 1 × 10 litre PE composite bottle
- 1 1 × 25 litre PE composite bottle
- W 4 × 5 litre PE bottle*
- X 16 × 1 litre PE bottle + 4 ice packs*
- 6 24 × 1 litre PE bottle*
- Y 1 × 20 litre Glass bottle
- 7 24 × 1 litre Glass bottle*
- 0 Without bottles

* distributor system

Thermal control

2 options:

- Static sample storage with insulated passive cooled sampler base (ice packs)
- Autartic temperature control of sample compartment in combination with active cooled sampler base (12 V / 115 V / 230 V)

Housing details

Sampler base: double-walled PE plastic

Cover: single-walled PE plastic

Cover can easily be lifted for maintenance or status check, protects all components against dirt and humidity.

Suction inlet at right-hand side of housing.

Operating pressure

Pressureless

Operating temperature

0 to 43 °C

Sample temperature

0 to 40 °C

Dimensions

787 mm × 510 mm × 468 mm (sampler)

1028 mm × 550 mm × 468 mm (active box with compressor cooling system)

Weight

Passive cooling: about 23 kg; Active cooling: about 40 kg with compressor cooling system. Each including rechargeable batteries for sampler and bottle option 1 × 10 L (empty bottle).

Warranty

2 years