



Be Right™

Automatic samplers for a wide range of applications

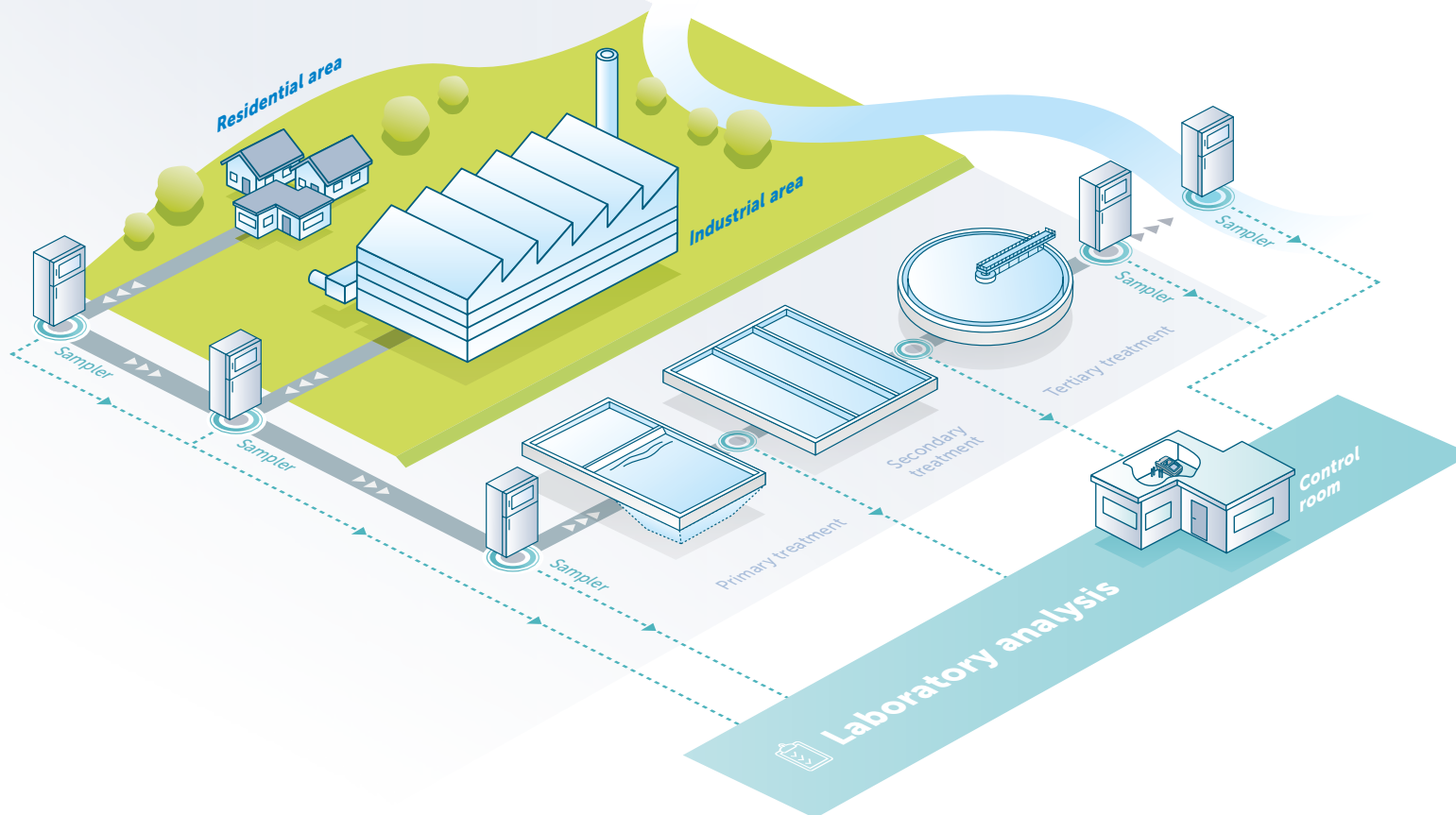
Hach® portable and stationary samplers for consistent analysis

- Reliable results
- Accuracy
- Low maintenance
- Intuitive operation

Why is automated sampling important?

Automatic samplers have become increasingly important in monitoring the performance of municipal waste water treatment plants. Their usage has now been extended to the monitoring of sewer systems and industrial waste water treatment plants.

Typical locations where automated sampling is required are the sewer system, the inlet and outlet of municipal and industrial waste water treatment plants, plant process stage monitoring and environmental monitoring.



Key benefits of Hach automatic samplers



Automatic sampling in event, time or flow paced intervals. Difficulties in ensuring that manual sampling is representative often lead to incorrect or incomplete understanding of process effectiveness.



Various design options promote versatility. Samplers can be installed in situations with extreme conditions, e.g. toxic environments.



Automatic samplers provide a **range of temperatures** at which sampling can be performed (- 40 °C to 50 °C) and preserved (at 4 °C). Preservation of the collected captured sample is essential for accurate laboratory analysis.



Various bottle configurations and options in glass or PE available. Flexibility allows the user to ensure that samples are compliant with different regulatory requirements.

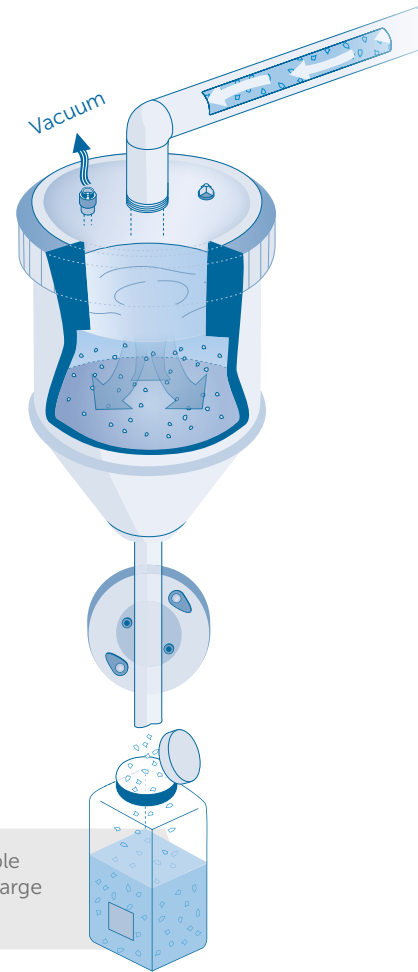
Sampling technologies: How to take samples automatically



Bühler metering vessel

Vacuum Technique

- Very accurate sample volume +/- 5 %
- Use of wide sample hoses ensure representative sampling, with the avoidance of shear of large solids
- Low operating cost with no consumables required
- Sample volume is calibrated once only
- Ideal for high sampling frequencies including large suction heights (>8 m)
- Long battery life due to energy efficient operation (portable samplers)



1 Pipe is purged to remove any contaminants

2 Vacuum-induced sample intake

3 Meter the volume and purge the pipe

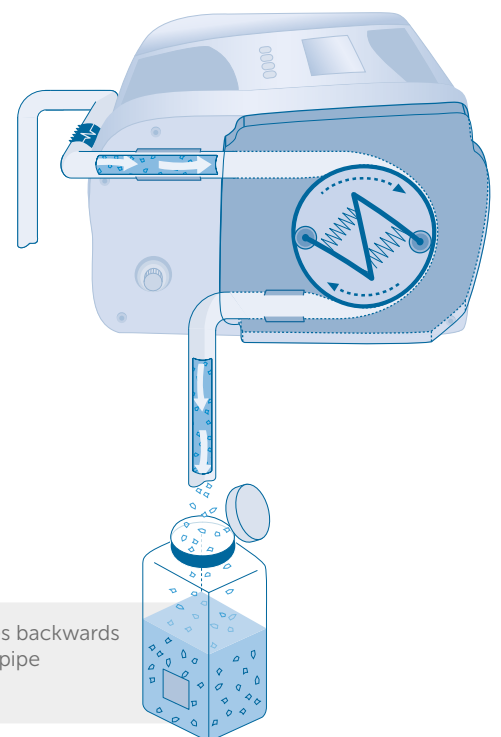
4 Sample discharge



AS950 high-performance peristaltic pump

Peristaltic Technique

- Very easy operation due to compact technical design
- Only the sample volume required is pumped
- Low cross-contamination as a result of thorough rinsing cycles
- Representative samples as sedimentation of solids is avoided
- Low weight - only 12.7 kg
- Easy and intuitive operation - view the entire program at a glance
- Field convertible for compact or discrete sampling weighing only 12.7 kg



1 Pump rotates backwards, purging the pipe

2 Sample intake, metering the volume, pump rotates forward

3 Pump rotates backwards purging the pipe

An answer to your sampling requirements

Hach offers the most comprehensive range of samplers available on the market. All samplers **conform to ISO 5667**. Our product range encompasses both peristaltic and vacuum pump technologies, steel and PE enclosures, stationary and portable capabilities. With more than 30 years of experience in sampler technology, Hach provides the most comprehensive set of tools to complete any sampling task.

AS950 Refrigerated sampler

- Long-life pump tubing
- Robust PE enclosure with heated controller



Peristaltic



Vacuum

STATIONARY SOLUTIONS

Bühler 4010

- Highest sample volume accuracy
- High-performing cooling system

Bühler 2000

- High sample volume accuracy
- No consumables needed



Vacuum

PORTABLE SOLUTIONS



Peristaltic

More stationary samplers:

Bühler 3010

Durable, noncorrosive PE housing

Bühler 4210

Water rinsing of dosing system for high-suspension solid applications

Bühler 1027

Ideal for sampling of widely different types of wastewater

AS950 Refrigerated

For indoor installation, easy to configure and use

AS950 Portable sampler

- Easy to operate
- Great value for money
- Flexibility for a wide range of applications

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