

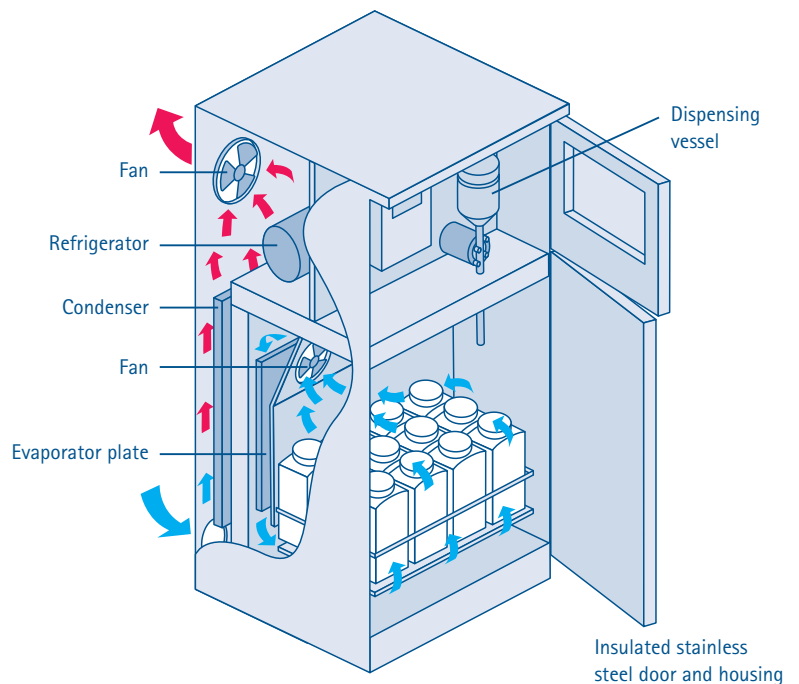
# Fully automatic stationary and portable samplers

HACH LANGE’s extensive range of samplers includes portable and stationary systems using pressure/vacuum or peristaltic technology. Versatile dispensing units for time, volume, flow and event-based sampling. All HACH LANGE samplers are ideal for use in sewage treatment and industrial plants and for monitoring surface waters. Outstanding technical knowledge, excellent quality and a comprehensive range of service packages ensure reliable operation in standard applications as well as under difficult conditions. Intelligent design optimises handling during operation, maintenance and service.

	PORTABLE SAMPLERS	STATIONARY SAMPLERS
Pressure/vacuum technology	 <p>BÜHLER 1029 – flexible</p>	 <p>BÜHLER 4010 – weather resistant</p>
	 <p>XIAN 1000 – weather resistant</p>	 <p>BÜHLER 1027 – wall mountable</p>
Peristaltic technology	 <p>SIGMA 900/900 MAX – compact</p>	 <p>SIGMA 900/900 MAX – weather resistant with high-speed pump</p>

## WW Pressure/vacuum sampler

- All-weather housing in V2A or V4A stainless steel
- Flexible sampling: time, volume, event and flow-based
- Exact sample volumes with pressure/vacuum technique
- Excellent operational reliability with patented modules
- Temperature control system maintains samples at +4 °C



Optimal cooling of up to 24 sample bottles through effective air circulation

### Individually configured, ideal for demanding sampling

- The system can be rinsed with water instead of air when samples have high solids content
- Integration of probes for pH, conductivity, oxygen and redox
- Self-emptying systems, e.g. for river or outflow monitoring

### Representative samples conforms with ISO 5667

The pressure/vacuum samplers function in conformity with ISO 5667. Samples can be used for consent verification. Until then the sample is kept cool, thus preventing biological and chemical changes from occurring. The system is rinsed after each sampling operation to ensure that no cross-contamination occurs.

→ For the technical data of the sampler with pressure/vacuum technique: see page 94

# Peristaltic samplers

- Plastic housing for indoor or outdoor setup
- Versatile controllers for standard and demanding sampling
- Flexible sampling: time, volume, flow and event-based
- Temperature control system maintains samples at +4 °C
- Optional configuration for pH, conductivity, O<sub>2</sub>, redox, flow



Portable SIGMA 900 MAX sampler



All weather version of the SIGMA 900/900 MAX stationary sampler

## The right controller for your needs: 900 or 900 MAX

Both SIGMA controllers can be used with stationary samplers incorporating cooling systems for indoor or outdoor setup or with portable samplers.

The SIGMA 900 controller can be relied on for traditional sampling tasks, while the SIGMA 900 MAX is ideal for demanding monitoring tasks.

## The SIGMA 900 MAX controller—high quality, latest technology

The quality of the 900 MAX controller is reflected in more than just the clear display for graphic and tabular data output:

- Event-based sampling for pH, conductivity, O<sub>2</sub>, redox or flow
- Simple, flexible programming
- Separation of out-of-limits samples

## Reliable and flexible sampling conforms with ISO 5667

The high-speed pump fills as many as 24 sample bottles in time, volume, flow or event mode. The system is purged before and after sampling and the sample is kept cool at 4 °C. In practice this means:

- Flexible working
- No cross-contamination
- No chemical and biological changes

→ For the technical data of the peristaltic SIGMA 900 MAX samplers: see next page

# WW Samplers – an overview



**Comprehensive:** The BÜHLER 4110 measuring station combines the stationary sampler with digital SC 100 controllers for up to four sensors.



**Ingenious:** The pressure/vacuum valve system of the BÜHLER sampler functions without any contact with the sample, reducing wear parts.



**Well designed:** The pull-out service console in the BÜHLER samplers ensures convenient maintenance.

## Stationary samplers – an overview

MODEL	BÜHLER 4010	BÜHLER 4110	BÜHLER 4210	BÜHLER 4410	BÜHLER 1027	XIAN 1000	BÜHLER 1029	SIGMA 900 (indoor)	SIGMA 900 MAX (indoor)	SIGMA 900 (outdoor)	SIGMA 900 MAX (outdoor)
<b>Version</b>											
Portable (P)/Stationary (S)	S	S	S	S	S	P	P	S	S	S	P
<b>Technique</b>											
Pressure/vacuum system	•	•	•	•	•	•	•				
Peristaltic								•	•	•	•
<b>Sampling</b>											
Time, volume, event-based	•	•	•	•	•	•	•	•	•	•	•
Flow-based	•	•	•	•	•	•	•	•	•*	•	•*
Temperature-controlled	•	•	•	•	Optional		Optional	•	•	•	•
Composite sample	•	•	•	•	•	•	•	•	•	•	•
Discrete sample	•	•	•	•	•	•	•	•	•	•	•
<b>Housing</b>											
Plastic						•	•	•	•	•	•
Stainless steel	•	•	•	•	•						
Weather-resistant	•	•	•	•	•	•	•			•	•
<b>Other features</b>											
Freely programmable application programs	6	6	6	6			6	5	5	5	5
System rinsing with water instead of air			•								
1-line display						•		•		•	•
LC display with 4 x 20 lines	•	•	•	•			•		•	•	•
Self-emptying sample vessels				•							
pH, conductivity, O <sub>2</sub> , redox potential measurement		Optional							Optional		Optional
Weight (kg)	90	105	90	Approx. 115	8	10-20	13	63	63	79	13

\* Only with SIGMA AV flow sensor