

**PRODUCT INFORMATION**

SAMPLER  
 STATIONARY  
 BÜHLER 4010/5010



# Weather-resistant: BÜHLER 4010/5010 stationary sampler

- **Stainless steel housing**
- **Separate control and wet units**
- **Composite and fractionated samples**
- **Microprocessor-controlled menu guidance**
- **Backlit liquid crystal display**
- **GSM communication (optional)**

**The facts**

The sampler functions on the pressure-vacuum principle and operates in time, volume, flow or event proportional mode. Newly upgraded and patented components facilitate trouble-free and low-maintenance operation. The temperature-controlled weatherproof V2A housing is optionally available in V4A and plastic-coated versions.

The stationary BÜHLER 4010/5010 is ideal for use in sewage treatment plants and industrial facilities, and for monitoring surface waters. The different dosage vessels make the instrument extremely flexible in standard and individual applications.

## Technical data

|   |   |                              |
|---|---|------------------------------|
| <b>Sampling principle</b>               | Pressure-vacuum principle   |                              |
| <b>Sample volume</b>                    | 20-350 ml (optional 20-500 ml)  |                              |
| <b>Sample containers<br/>Model 4010</b> | 1 × 25-litre PE container   | 1 × 50-litre PP container    |
|   | 4 × 6.3-litre PE container  | 2 × 10-litre PE container    |
|   | 4 × 10-litre PE container   | 4 × 14-litre PE container    |
|   | 12 × 2.9-litre PE bottles   | 12 × 2-litre glass bottles   |
| <b>Sample containers<br/>Model 5010</b> | 24 × 1-litre PE bottles   | 24 × 0.9-litre glass bottles |
|   | 4 × 20-litre PE bottles   | 24 × 2-litre glass bottles   |
| <b>Sample lift height</b>               | Max. 8 metres, pressure = 1 bar   |                              |
| <b>Suction tubing</b>                   | 7.5-metre PVC tube (12 mm inside diameter, optional 16 mm)  |                              |
| <b>Bottle filling time</b>              | 1 min. - 99 h 59 min.   |                              |
| <b>Dosage pause</b>                     | 1 min. - 99 h 59 min.   |                              |
| <b>Sampling</b>                         | Time, volume, flow and event-proportional   |                              |
| <b>Sample distributor</b>               | Round distributor, X-Y distributor (optional)   |                              |
| <b>Control system</b>                   | Microprocessor, watertight touch-sensitive keypad, 16 digital and 8 analogue inputs and outputs (upgradeable by another 16 digital inputs and outputs), 4 x 20-character backlit liquid crystal display   |                              |
| <b>Dosage systems</b>                   | <ol style="list-style-type: none"> <li>1. Standard vacuum system for time, volume and event samples, manually adjustable sample volume 20-350 ml (optional 20-500 ml)</li> <li>2. Variable dosage unit for additional flow-proportional samples, automatic dosage (20-400 ml)</li> <li>3. Flow dosage unit for a time, volume and event sample from pressure lines (4-20 l/min).</li> </ol> |                              |
| <b>Membrane pump</b>                    | 12 V/4 A, vacuum, average suction rate with suction tube with 12 mm ID and sample lift height of 5 m > 60 cm/s (in conformity with ISO 5667)  |                              |
| <b>Programmes</b>                       | 6 user-defined sampling programmes (freely programmable)  |                              |
| <b>Languages</b>                        | Choice of several languages   |                              |
| <b>Status messages</b>                  | Sampling, programme active, programme end and collective malfunction messages (optional)  |                              |
| <b>Time display</b>                     | Date and time   |                              |
| <b>Data memory</b>                      | Sample and message logging  |                              |
| <b>Flow signal</b>                      | 0/4-20 mA or pulses, floating contact   |                              |
| <b>Independent temperature control</b>  | Interior at +4 °C, cooling and heating independent of control system  |                              |
| <b>Overvoltage protection</b>           | All inputs have overvoltage protection  |                              |
| <b>Power supply</b>                     | 230 V/50 Hz, fusing at least 10 A, cable with Schuko plug   |                              |
| <b>Power input</b>                      | 250 VA  |                              |
| <b>Load impedance</b>                   | 50 Ohm  |                              |
| <b>Housing</b>                          | Double-walled stainless steel (material 1.4301) with 40 mm insulation, 2 lockable doors, top door with inspection window, protective heating in top section, protective cover which can be fitted for connection and maintenance work. Optional housing in V4A and epoxy-coated.  |                              |
| <b>Ambient temperature</b>              | - 20 to + 40 °C   |                              |
| <b>Dimensions (HxWxD)</b>               | Model 4010: 1290 (*1882) x 710 x 660 mm<br>Model 5010: 1390 (*2175) x 840 x 820 mm<br>* with cover in place   |                              |
| <b>Weight</b>                           | Model 4010: 90 kg, model 5010: 110 kg   |                              |
| <b>Optional accessories</b>             | Mobile model, interior lighting, V2A base frame, intake device and much more  |                              |

Subject to change without notice.



Fold-out service console – easily accessible and maintenance-friendly

### Representative samples in conformity with ISO 5667

Pressure-vacuum samplers are ISO 5667 compliant and therefore satisfy the requirements for subsequent reproducible analysis. Until then 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.



# DP-FLOW

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**LANGE**

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