



### Applications

- Sewer systems
- Inlet and outlet of municipal and industrial wastewater treatment plants
- Plant process monitoring
- Environmental monitoring
- Monitoring of indirect discharges

## SIGMA SD900: Active cooling portable sampler

### Easy to use

Simplified keypad with intuitive icons and scrolling menu of the HACH Sigma SD900 Active Cooling Sampler assures easy setup. The large 5-line transreflective LED backlit display is readable in bright or subdued lighting.

### Longer tubing life

Worried about replacing tubing? The peristaltic pump with spring loaded rollers reduces pump tubing wear and prevent pump jams. The life time of pump tubing is 20,000 cycles compared to 1000 cycles on other samplers.

### Flexibility for different applications

Do you need samples to meet local regulations of 24 x hourly mixed / daily mixed sample? We offer unique options of 1 x 25 litre PE and 1 X 20 litre glass with an active cooled sampler base.

### Lightweight, corrosion-free PE housing

The compact, weather-proof housing polyethylene plastic ensures failure-free operation over many years even in extremely corrosive applications.

### Accurate sampling for correct analysis

The Sigma SD900 Portable Active cooling sampler comes with an integrated cooling machine which includes an autarktic temperature control for accurate temperature controlled sample conservation.

### Representative samples in conformity with ISO 5667

All samplers satisfy requirements for reproducible analysis. To avoid cross-contamination the system is purged before and after a sample.

### Maximize data with minimal effort

Looking to reduce time taken up by manual record-keeping? Use HACH's Sample View software to program the controller, view and download sample history to a computer, save templates, upgrade firmware in the field and download event logs.



## Technical data

### Configuration (Article number):

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### Sampling principle

Peristaltic

### Sample Volume

Programmed in 10 mL increments from 10 to 10.000 mL

### Suction height

Minimum 8.5 m (28 ft) suction head using 8.84 m (29 ft) of 3/8 in vinyl intake tube at sea level at 20 to 25 °C

### Suction velocity

0.9 m/s (2.9 ft/s) at 4.6 m (15 ft) vertical lift with 16 ft or 4.8 m of 3/8 in vinyl intake tube at sea level at 2 °C

### Pump flow rate

80 mL/s at 0.91 m (3 ft) vertical lift in 0.95 cm (3/8 in) intake line

### Intake tubing

9,5 mm (3/8 in) vinyl Teflon lined polyethylene

### Intake strainer

Choice of Teflon or/and 316 SS construction

### Intake purge

Air purged automatically before and after each sample

### Intake rinse

Intake line optionally rinsed prior to each sample from 1 to 3 rinses

### Intake retries or fault

Sample collection cycle optionally repeated from 1 to 3 times if sample not obtained on initial attempt

### Thermal control

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

### Operating pressure

Pressureless

### Operating temperature

0 to 43 °C

### Sample Temperature

0 to 40 °C

#### Intake tube length options

1 - 7.5 m  
2 - 30 m

#### Bottle options

X - 1 X 20 L glass bottle  
y - 1 X 25 L PE bottle

#### Power options for sampler

0 - without power supply  
1- 12 V DC without charger  
2 - 230 V AC, EU plug  
3 - 230 V AC, UK plug

#### Housing options

2 - Active cooling base (thermostatic refrigeration) with 12 V DC, 230 V AC / 50 Hz, EU plug  
3 - Active cooling base (thermostatic refrigeration) with 12 V DC, 115 V AC / 50 Hz, bare leads

### Power Requirements

12 V / 115 V / 230 V

### Communication

- EPROM Flash Memory via RS-232 permits software upgrades in the field
- Serial Interface RS-232 compatible
- SDI-12 Connectivity Plug and Play interface to Hydrolab DS5 and MS5 sondes for setpoint apps
- Sample View Data Management Software Download, analyze and report data with graphs

### Logging

Stores up to 510 data log entries in Sample History along with an Event Log

### Program lock

Access code protection prevents tampering of program and system settings

### Program Delay

Specify start time and date or number of counts to expire before programme can start

### No. of user programs

Stores up to 3 sampling programs

### Pacing intervals

Selectable in single increments from 1 to 9.999 flow pulses or 1 to 999 h in 1 minute increments

### Dimensions (H x W X D)

1028 mm x 550 mm x 468 mm

### Weight

Approximately 40 kg with compressor cooling system

### Warranty

2 years

Subject to change without notice.



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