

**PRODUCT INFORMATION**  
**SAMPLER**  
**STATIONARY**  
**SIGMA SD900 AWRS**



**NEW!**

# The All Weather Refrigerated Sampler: Hach Sigma SD900 AWRS

- **Reduced maintenance**
- **Reliable peristaltic pump technology**
- **Easy to use**
- **Advanced liquid detection**
- **Accurate thermal control system**

### The Facts

The automatic stationary water sampler Hach Sigma SD900 AWRS is designed for indoor and outdoor use. The sampler functions according to the peristaltic-principle. Allow complete drainage of the intake line to prevent cross-contamination between samples. The life-time of the pump tubing is 20,000 cycles compared to only 1,000 cycles on other samplers. The SD900 AWRS operates in time-, volume- (flow-proportional), or event-based mode.

This sampler is designed specifically to endure humid and highly corrosive environments by placing the compressor at the top of the cabinet. The simplified keypad with intuitive icons and scrolling menu on the Hach Sigma SD900 AWRS assures easy setup. Spring mounted rollers ensure strong pump draw, extended pump tubing life and less pump downtimes. Use Sample View PC Software to remotely program the controller, view and download sample history.



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# Technical Data

Sampling principle	Peristaltic pump technology
Single sample volume	100–1,000 ml, freely adjustable
Sample container	Plastic (PE): 1 x 10 l, 1 x 21 l, 2 x 10 l, 4 x 10 l, 8 x 2,3 l 24 x 1.0 l Glass: 1 x 10 l, 2 x 10 l, 4 x 10 l, 8 x 1,9 l, 24 x 0,35 l
Sample lift height	Max. 8.5 m (at sea level, 20 to 25°C)
Suction rate	0.9 m/s (2.9 ft./s) at 4.6 m (15 ft.) vertical lift (16 ft. of 3/8-in. vinyl intake tubing at 21°C, pump performance electronically adjustable)
Suction tubing	9.5 mm ID, choice of vinyl or Teflon lined PE tubing
Pacing Intervals	1 to 9,999 flow pulses or 1 to 999 hours in 1 minute increments
Sample Distribution	Bottles per sample or samples per bottle
Sampling	Time-, volume and event-based sampling Delayed start of program selectable
Manual Sampling	Deliver grab sample to a specific bottle location
Volume Accuracy	+/- 10 % of 200 mL sample volume using uncalibrated liquid detect
Sample distributor	Robust round distributor
Sample Pump	High speed peristaltic, spring-mounted Nylatron rollers Pump Enclosure: Rugged, corrosion-resistant polycarbonate door, high impact resistant, rated IP37
Connections	Power, auxiliary, serial communications, distributor, SDI-12, thermal
SDI-12	Plug & Play interface to Hydrolab DS5 and MS5 sondes
Programs	Stores up to 3 user-defined sampling programs
Languages	Choice of several languages
Communication	Serial RS232 Interface
Sample history	Stores up to 510 entries for sample time stamp, bottle number and sample status
Temperature control	Microprocessor controlled thermostat maintains sample liquid at 4 °C (±1 °C), frost free
Power requirement	230 V / 115 V, 440 VA (with cooling), fusing at least 8 A
Operating pressure	Pressureless
Housing	Cabinet: Low density polyethylene with UV inhibitor; enclosure rated IP24. Controller: High-Impact, injection-moulded PC/ABS blend; submersible, watertight, dust-tight, corrosion, and ice resistant; NEMA 4X, 6, IP 67 Suction inlet from left-hand side of housing
Ambient temperature	-40 to +50 °C (with optional AC power back -15 to 40 °C)
Storage temperature	-30 to +60 °C
Dimensions (H x W x D)	
Cover closed	1.300 x 760 x 810 mm
Cover opened	1.800 x 760 x 810 mm
Weight	About 86 kg with composite bottle (depending on final configuration)
Optional accessories	Mobile model, power back-up, PC Software Sample view, much more

Subject to change.



Hach Sigma SD900 AWRS  
with cover closed

## Representative samples in conformity with ISO 5667

Hach Sigma SD900 AWRS peristaltic 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 crosscontamination, the system is rinsed before and after each sample is taken.

## HACH LANGE Services



Contact us to place an order, request information or receive technical support.



Service packages and extended warranty up to 5 years.

**HACH LANGE GMBH**  
Willstätterstraße 11  
D-40549 Düsseldorf  
Tel. +49 (0) 211 52 88-0  
Fax +49 (0) 211 52 88-143  
info@hach-lange.de  
www.hach-lange.com

