

Please Note: The following text describes standard equipment, with optional alternative equipment and common accessories listed in parentheses (). The engineer may select the equipment desired for the application, and delete the specifications that are not required. If desired equipment is not listed in this text, please contact WaterSam regarding other option and special custom equipment.

Stationary water sampler for indoor wall-mounted applications; vacuum pump sampling system for automatic time-, volume- and event-proportional sampling under pressure-free conditions.

Housing

Housing made entirely of stainless steel 316Ti.

Controller

User interface with 128 x 128 pixel graphic display, 24 keys including navigation keys, numerical keys, color-coded keys for program start, pause, stop, and grab sample; IP65 protection.

Inputs

- 4 x analog inputs 0/4–20 mA
- 10 x digital inputs for e.g. flow, event, multiple programmable inputs

Outputs

- 1 x analog output 4–20 mA
- 16 x digital outputs for e.g. program active message, fault message, other programmable messages

Communication Ports

- Serial ports RS-232 and RS-485
- 10/100 Ethernet TCP/IP
- USB Host
- Mini-USB Port Slave

Sampling Programs

9 user-defined sampling programs can be stored

Multiple / all programs can operate simultaneously

Programs can be set to repeat automatically or be linked with another program

Battery backup of user programs after power loss – min. 5 years after delivery date

Data memory

Storage of 100 most recent datasets: sample in bottle X resp. sampling error, program start date and time, bottle change date and time, events date and time, voltage loss and voltage return date and time.

VAC Vacuum Sampling System

Vacuum sampling system for time-, volume- and event-proportional sampling under pressure-free conditions.

Metering vessel made of borosilicate glass DURAN 50; dishwasher-safe, resistant to acid, alkali and temperature fluctuations; located in thermostatically-controlled sample compartment for protection against frost, heat and sunlight to prevent sample falsification.

Sample volume adjustable: 15–350 ml (15–750 ml); multiple-shot samples possible.

(VAR-B Vacuum Sampling System

Variable-volume vacuum sampling system for time-, volume-, flow- and event-proportional sampling under pressure-free conditions.

Metering vessel made of borosilicate glass DURAN 50; dishwasher-safe, resistant to acid, alkali and temperature fluctuations; located in thermostatically-controlled sample compartment for protection against frost, heat and sunlight to prevent sample falsification.

Contactless metering for heavily soiled and untreated wastewater regardless of conductivity; variable-volume samples: 20–200 ml.)

Vacuum Pump

Vacuum pump with 230 V AC motor; 14 l/min free flow, -0.8 to 1 bar, maximum lift height 8 m.

(High-performance pump with 19 l/min free flow, -0.85 to 7 bar pressure, limited to 3 bar; including pneumatically-operated pinch valve. Larger housing.)

(Heavy-duty pump package including pivoted armature valves and pneumatically-operated pinch valve; for highly corrosive sample media and ambient air. Larger housing.)

Suction Hose

PVC hose with reinforcement weaving; 12 mm inside diameter, 5 m length; including connector for metering vessel and stainless steel tip.

Sample Storage*Composite Sample Containers; without Distributor:*

- (10.4 l PE composite container with PE screw cap)
- (15.4 l PE composite container with PE screw cap)
- (20.0 l PE composite container with PE screw cap)
- (26.4 l PE composite container with PE screw cap)

Distributor with Discrete Sample Bottle Sets:

(XY Distributor for direct sample depositing; mounted with sampler in stainless steel support frame. Two-axis movement throughout entire sample compartment for precise coordinate positioning directly over sample bottles.

7 pre-set bottle layouts selectable in controller; 1 freely programmable bottle layout enables operator to set coordinates for non-standard bottles.

Manually adjustable to 145 mm higher position for taller containers

Automatic recouping of bottle changes after power loss.)

- (4 x 10.4 l PE containers with lids)
- (4 x 15.4 l PE containers with lids)
- (14 x 4 l PE bottles with lids)
- (16 x 2.9 l PE bottles with lids)
- (16 x 2 l borosilicate glass bottles with PE lids)
- (24 x 2 l PE bottles with lids)
- (36 x 1 l PE bottles with lids)
- (36 x 1 l borosilicate glass bottles, with PE lids)
- (49 x 1 l PE bottles with lids)
- (49 x 1 l borosilicate glass bottles, with PE lids)
- (64 x 350 ml PE bottles with lids)

(12 x 2.9 l PE bottles with lids and 1 x 12 l PE composite container with lids)

(24 x 1 l PE bottles with lids and 1 x 12 l PE composite container with lid)

Technical data, dimensions and weight

Power requirements:	230 V AC (120 V AC), 50 Hz (60 Hz), 16 A; fused on site
Dimensions HxWxD:	340 x 472 x 190 mm
Weight:	approx. 12 kg, depending on equipment

Model: WS 98

Manufacturer: WaterSam® GmbH & Co. KG, Germany

Additional Options and Accessories:

(Drawer

Stainless steel drawer tray for sample bottles; with stainless steel telescopic slides. Mounted in stainless steel support frame.)

(Main switch

Main switch as circuit isolator mounted in front panel of the sampler)

(Immersion jig

Swivelling immersion jig made of PVC and stainless steel)

(Relay: General error alarm)

(Relay: Sampling error alarm)

(Relay: Bottle change notification)

(Relay: Program operating notification)

(Relay: End of program notification)