

*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.*

Mobile water sampler with built-in battery and all-weather design; vacuum pump sampling system for automatic time-, volume- and event-proportional sampling under pressure-free conditions.

### Housing

Weather-proof housing made entirely of stainless steel 304 (316Ti)  
Large carrying handle

### 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: 12–200 ml; multiple-shot samples possible.

### (VAR-C 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.

Variable-volume samples: 20–150 ml.)

**Vacuum Pump**

Vacuum pump with 24 V DC motor; 9 l/min free flow, -0.7 to 1 bar, maximum lift height 7 m.

(Double-pump system for maximum lift height 8 m)

**Suction Hose**

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

**Sample Distribution and Storage***Passive / no Cooling:*

(6.4 l PE composite container with screw cap; insulated transport box with freezer packs for passive cooling)  
(10 l PE composite container with screw cap; insulated transport box with freezer packs for passive cooling)  
(2 x 5 l PE containers with screw caps; insulated transport box with freezer packs for passive cooling)  
(12 x 1 l PE bottles with screw caps; insulated transport box with freezer packs for passive cooling)  
(12 x 0.9 l borosilicate glass bottles with PE snap caps; insulated transport box with freezer packs for passive cooling)  
(24 x 1 l PE bottles with PE screw caps; transport box)  
(24 x 0.9 l borosilicate glass bottles with PE snap caps; transport box)

*Active Cooling:*

(Thermostatic cooler; compressor refrigeration with CFC-free refrigerant; keypad and digital display; temperature adjustable from -22 °C to +10 °C.

(6.4 l PE composite container with screw cap)  
(10.4 l PE composite container with screw cap)  
(2 x 4 l PE containers with screw caps)  
(4 x 6.4 l PE containers with screw caps)  
(12 x 1 l PE bottles with screw caps)  
(12 x 0.9 l borosilicate glass bottles with PE snap caps)  
(12 x 1 l PE bottles with screw caps)  
(12 x 0.9 l borosilicate glass bottles with PE snap caps)

**Technical data, dimensions and weight**

Sampler power requirements: 100–240 V AC, 50–60 Hz, 0.7-0.5 A, 50 VA

Sampler dimensions HxWxD: 430 x 415 x 290 mm

Sampler weight: approx. 17.5 kg, including built-in battery

(1/12 transport box dimensions HxWxD: 380 x 480 x 320 mm

1/12 transport box weight: approx. 4.5 kg)

(24 transport box dimensions HxWxD: 310 x 566 x 350 mm

24 transport box weight: approx. 7 kg)

(1T/12T cooler power requirements: 100–240 V AC, 50–60 Hz, 1.3-0.7 A, 50 VA

1T/12T dimensions HxWxD: 415 x 710 x 360 mm

1T/12T weight: approx. 18.5 kg)

(24T cooler power requirements: 100–240 V AC, 50–60 Hz, 1.3-0.7 A, 50 VA

24T cooler dimensions HxWxD: 455 x 920 x 500 mm

24T cooler weight: approx. 23.5 kg)

**Model:** WS Porti

**Manufacturer:** WaterSam® GmbH & Co. KG, Germany

*Additional Options and Accessories:*

**(Cover plate**

Protective cover plate for front of sampler; including swivel handle and lock, hole for suction hose.)

**(Input cable**

Input cable; 5 m long with 5-pole connector; for analog flow, digital flow and event.)

**(Cart for WS Porti 1T/12T/24**

Wheelbarrow cart; collapsible. 200 kg max. load.)

**(Cart for WS Porti 24T**

Dolly cart with fastening belt; collapsible. 180 mm wheels; 100 kg max. load.)

**(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)