

WS 312

Compact

Sampler

Housing

Complete housing of stainless steel **including** roof

XY-distributor

Over 10 years of successful operation

Direct dosing system, **no cleaning** of distribution plate

Standard up to **24 x 1 ltr.** bottles **without retrofitting** 7 common bottle combinations are pre-installed

Different bottle sizes composite and reference samples can be bottles at the same time

Client specific bottles can be used without difficulty

Parking position allows use of **large containers without retrofitting**

Dosing

Dosing vessel of **borosilicate glass** (no plastic vessel)

Recalibration of sample volume after cleaning is **not necessary**

Dosing vessel situated in **protected and thermostatted** sample chamber, thus **additional** panel door and protective heater **not necessary**

Hose inlet from the **left** or **right** optionally from the **bottom**

Closing pressure of pinch-valve is **adjustable**

Various hose materials and diameters are possible

Reliable sampling and **accurate** sample volumes with **vacuum pressure system**



 **WaterSam®**

www.watersam.com

WaterSam® A compact sampler according to ISO 5667.

MicroSam The control meets all your sampling requirements such as time, volume and event proportional sampling. A manual sample is possible at any time without interrupting the program.

Up to 9 programs can individually be set by the customer. They can be interlinked or run simultaneously.

The integrated control unit protects your equipment and logs important data such as pump run time, run time of the cooling unit, failure messages etc.

A GSM modem for remote control can be connected. An SMS error message can then also be sent to a defined mobile phone.

Examples:

WS 312-4



1 x 12.0 litres

WS 312-1



1 x 26.4 litres

The approved
**X-Y direct
distribution**
No cross
contamination

Variable for
every
application
Low
maintenance

WS 312-24



24 x 1.0 litre

WS 312-12



12 x 2.9 litres

With the special air circulation system inside the storage compartment the samples are kept at optimum temperature conditions of +4°C (at ambient temperatures from -25°C up to +42°C).

Electrical and mechanical components are situated in the upper dry part of the sampler.

The housing can be disassembled and recycled.

Service

WaterSam® samplers are very easy to maintain. Our customer service is always ready to help you fast and reliably.

Manufactured by:

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Technical Data - WS 312

According to ISO 5667

| | |
|-----------------------------|--|
| Sampling Method | Vacuum dosing system (Peristaltic pump upon request) |
| Material with fluid contact | Borosilicate glass, PE, PVC, stainless steel AISI 304, AISI 316 Ti, silicone |
| Dosing vessel | DURAN 50 borosilicate glass |
| Dosing volume | 20 – 200 ml (multiple dosing is possible) |
| Suction hose | di 12 mm, PVC |
| Suction height | 7.5 m, pump capacity 14.5 l/min without back pressure |
| Pump | 230 V AC; -0,8 to 1 bar; no collector |
| Distribution | X-Y distributor, directly into the bottles |
| Distribution hose | di 15 mm, silicone |
| Housing | Stainless steel (AISI 304) Option: AISI 316 Ti or powder-coated (RAL colors) 40mm insulation, cold bridge free |
| Cooling unit | Compressor cooling 230 V AC; 150 W; refrigerant R 134a CFC-free; automatic defrost |
| Heating unit | Electric heating in stainless steel case 230 V; 350 W with excess temperature protection 70°C |
| Thermostat | PT100 |
| Control | Microprocessor controlled, 4 button tactile back lighted keypad with 4 x 20 col. LCD display, Real time clock, 5 year RAM battery back-up, overload protected outputs |
| Software | Menu driven, 9 possible programs (simultaneously) Memories for errors, events and operation status Preset programs, easy to modify Preset and free distributor settings Combination and interlinking programs as standard features |
| Inputs | Flow signals : 0/4-20mA or. potential free contact Event signals : Potential free contact |
| Outputs | 4 outputs all in all program is running; error message 2 outputs free |
| Interface | RS 232 or optional RS 485 |
| Electrical Data | Mains supply 230 V / 50 Hz Power input approx. 750 VA max. Main fuse 16 A |
| Dimensions | Height 1.020 mm Width 590 mm (including fastening bar =720mm) Depth 590 mm weight 70-80 kg (depending on equipment) |

Supplied by: