

WS 316

WaterSampler with X-Y distributor

WaterSam[®] 

Advantages

Fair price
One basic device for all variations

Strong cooling +4°C
Perfect insulation 40 mm
Double door sealing (no cold bridges)

Stainless steel housing V2A, 1.4301, AISI 304

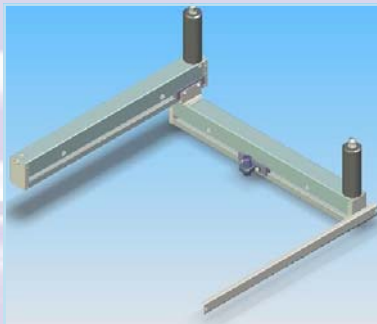


Optional panel door

Electronics and pneumatics in separate compartments
9 interlinking sampling programmes
Memory for warning signals
Optional data logger
Undervoltage protection
Complete software included

Task-oriented dosing system
Top spare parts supply
Top after-sales service

Optional: remote control via GSM-modem
Serial: Interface RS 232 or 485



Optional X - Y distributor

X - Y direct distributor, very versatile
Roof can be put upright for service



Upright roof for easy service

Different interchangeable bottle sets
8 preset distributor choices
1 freely adjustable distributor choice



36 x 1 litre bottles



12 x 2.9 litre bottles +
1 x 10 litre container



5 x 12 litre containers

Self-emptying und self-cleaning
bottle sets as possible options



2 x 5 or 10 litre PE
composite containers



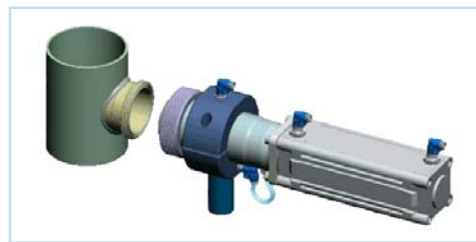
24 x 2 litre borosilicate glass bottles
(DURAN 50) and optional an additional
PE composite container of 6.4 litres.

Complete System Range

Dosing Systems for any Application



The **WaterSam®** vacuum dosing system **VAC** for sampling out of open flumes and waters.
Water pollution degree:
From solid laden up to clean.
For time-, volume- and event-proportional sampling.



The **WaterSam®** **INLINE_{cut}** system takes samples **directly** out of pressurised pipes.
Maximum system pressure: 6 bar
Water pollution degree:
From solid laden up to clean
Also for any type of fluid sludge in sewage or industrial works
For time-, volume- and event-proportional sampling.



The **WaterSam®** vacuum-system **VAR*** with variable dosing volume for sampling out of open flumes and waters.
Fully-automatic calibration
Water pollution degree:
From solid laden up to clean
For time-, volume-, **flow-** and event-proportional sampling.

* Patent DE 19832862



The **WaterSam®** **INLINE_{vent}** System takes samples out of pressurised pipes of up to 6 bar system pressure
Water pollution degree:
From solid laden up to clean
For time-, volume- and event-proportional sampling.








The fully-automatic **WaterSam®** cleaning system with cold or optionally warm water (55°C)



The **WaterSam®** **VacuPress** - pressure lift sonde lifts samples up to 30 metres high.
Water pollution degree:
From solid laden up to clean
For time-, volume- and event-proportional sampling.

Technical Data

(Options are marked with *. Error and omission expected. We reserve the right to make technical changes without notice.)

Model	WS 316 VAC	WS 316 VAR	WS 316 INL _{vent}	WS 316 INL _{cut}	WS 316 VacuPress
Dosing system		 Patent DE 19832862			
Sampling principle	Vacuum system with fixed volume	Vacuum system with variable volume	Inline system with motor-driven ball valve	Inline system with pneumatic linear actuation	Pressure lift sonde
Dosing vessel	DURAN 50 borosilicate glass		PVC	Stainless steel	PVC
Sample volume per draft	20 - 350 ml fixed	20 - 200 ml variable	20 - 100 ml fixed	50 ml Option 32 / 20 ml	20 - 350 ml fixed
Suction hose	Inside 12 mm Ø optional inside* 16 mm Ø			No hose	Inside 12/16* mm Ø
Suction height	6 m standard pump; 8 m large pump *		Free inflow under system pressure		0-8 m (Irg. pump)
Lifting height			=System pressure	=Pipe joint	30 m (Irg. Pumpe)
Distribution systems Bottles/containers*	Direct dosing, freely programmable X - Y – distributor * or Revolving distributor* with self-emptying /-cleaning sampler models SE* 1 x 60 L; 4 x 20 L; 5 x 12 L; 12 x 2,9 + 1 x 10,4 L; 16 x 2,9 L; 24 x 2,0 L; 36 x 1 L				
Standard pump	24 V DC; 9 l/min; -0,7 to 1 bar				
Large pump	230 V AC; 19 l/min; -0,85 to 7 bar*			230 V AC; 19 l/min; -0,85 to 7 bar	
Housing	Stainless steel: 1.4301 DIN X 5 CrNi 18 10 ; AISI 304				
Cooling unit	Compressor cooling 230 V AC; 160 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				
Internal temp.	+ 4°C ±1,5°; at an ambient temperature of -25°C to +42°C; temperature sensor Pt 100				
Control unit	Microprocessor controlled, 4 button tactile back lighted keypad with 4 x 20col.LCD display, Real time clock, 5 year RAM battery back-up, overload protected outputs				
Software	Menu driven, 9 programmes simultaneously. Memory for errors, events and operation status. Preset programmes, easy to modify. Preset and free distributor setting. Combination and interlinking programmes as standard feature.				
Sampling modes	Time-, volume– and event-proportional	Time-, volume– flow– and eventproport.	Time-, volume– and event-proportional		
Signal inputs	Flowmeter: 0/4 - 20 mA or potential free contact. Event: Potential free contact				
Interface	RS 232 (controllable i.e. via WINDOWS Hyperterminal) or RS 485				
Remote control*	Via Modem or GSM-modem (world wide). Via radio control (max. 300 m, free of charge)				
Electrical data	Mains supply 230 V 50 Hz; Output max. 400 VA; Recommended safety fuse 16 A				
Dimensions	Height 1290 x Width 655 mm Depth 770 x (Width including fastening bar 720 mm)				
Weight	105 - 115 kg according to equipment				

Sales and Service Contact

Phone +49 (0)7472 9882 0
Fax +49 (0)7472 9882 22
E-Mail info@watersam.de
Internet www.watersam.com

Produced by

WaterSam GmbH
Felix - Wankel - Strasse 70
D 72108 Rottenburg am Neckar
Germany