



*Fixed site vacuum sampler*



*Fixed site peristaltic sampler*

## **Features:**

- SS foam insulated refrigerated Cabinet
- Peristaltic or Vacuum system (p/v)
- Separate bottle trays with grips
- Seamless inner shell for sample compartment
- Optional battery back up for “p” version
- Optional AtexII3G zone 2 with “v” version

## **Benefits:**

- Mcertified meeting PPC requirements (“v” version)
- Simple low cost programming and maintenance
- Option for hazardous areas – zone II (“v” version)
- Remote interrogation and control via gsm or profibus
- Suitable for active samples as found in brewing and food and drink industries

- Simple menu led programming
- Data log for parameters and sample stats.
- Multiparameter sonde option for “v” types
- RS232 for configuration & data transfer
- Optional profibus for “v” type

## **Applications:**

- Wastewater inlet monitoring
- Environmental monitoring
- Final effluent compliance monitoring
- Process monitoring
- Permanent runoff sampling stations
- Potable water abstraction monitoring

**SampSysF** is a rugged fixed site refrigerated water sampler built for use in the demanding environment of industrial and municipal wastewater works. It is of SS insulated construction and is available with either peristaltic (“p” version) or vacuum (“v” version) sampling systems.

Time composite or flow proportional samples may be taken and interfaces for flow input, YSI multiparameter sonde data, and level switches are available. Sampler operation and parameter measurements are logged in the controller and may be downloaded locally or remotely. Discrete or composite sampling and parallel sampling allowing event and routine programme sampling simultaneously are all available.



## System Specification

<b>Operational Principle:</b>	Peristaltic pump or vacuum sampling, time or flow controlled, to single or multiple bottles.
<b>Range:</b>	“v” type 20-200ml/sample (20-500 optional), “p” type 20-9999ml/sample
<b>Repeatability:</b>	“v” type 2%, “p” type 5%
<b>Accuracy:</b>	“v” type 4% ; “p” type +/- 5ml or +/- 5% of set volume
<b>Transport velocity:</b>	>0.5m/s to EN25667
<b>Max suction head:</b>	6 metres standard (8 metres optional)
<b>Max suction line length:</b>	30metres

## Controller/Housing Specification

<b>Mechanical Construction:</b>	<b>Dimensions (wxhxd)</b>	854x1295x735 mm
	<b>Weight:</b>	110 kg (approx)
	<b>Materials:</b>	housing 1.4301/SS304H (optional: 1.4404/SS316L) Inner shell: Polystyrene Insulation: Polyurethane CO2 foamed
	<b>Ambient conditions:</b>	-20 to +40 °C (+5 to +40 °C for Ex version)
	<b>Weather Protection:</b>	Control panel IP 65, sample compartment IP54, Electronics compartment – IP43
	<b>EMC:</b>	To EN 61 326
<b>Outputs:</b>	<b>Display:</b>	LCD: back lit, 8 line, 128 x 64 dot, 32 characters
	<b>Data interface:</b>	RS 232, standard with “p” type, Optional with “v”
<b>Inputs:</b>	<b>Digital:</b>	2 or 3 off contact closure
	<b>Analogue:</b>	1 off 0/4 – 20 mA
	<b>Serial:</b>	RS232 on front panel – optional for “v” type RS485 on terminal board, “v” type Profibus optional for “v” type
<b>Power requirements:</b>	<b>Supply voltage:</b>	230VAC 50Hz, 110-125VAC 50/60Hz, 12V option for “p” type
	<b>Load:</b>	350Watts “v”, 340 Watts “p” type

## Suction line & bottles

<b>Mechanical Construction:</b>	<b>“Wetted” Materials:</b>	polyethylene, glass, silicone rubber, SS, Polypropylene, PVC, POM, PA, PTFE, PMMA
<b>Process conditions:</b>	<b>Medium Temp</b>	0-50 °C
	<b>Medium Pressure</b>	Atmospheric
	<b>Quality:</b>	Must be free of abrasives for “p” type
<b>Bottle Sizes:</b>	A variety of PE and glass bottles of 1, 2,3,12, 20, 30, &60 litres are Available in various combinations depending on V/P or Ex models. Details on request from sales dept.	

## Ordering Information

<b>When placing an order it is important to indicate the following requirements to our sales staff:</b>	
1.	What if any certifications are required, e.g. Atex, Mcerts or others?
2.	Any preference in sampling principle (peristaltic/vacuum)?
3.	What operational voltage is required?
4.	What bottle configuration and materials are required (nos. of bottles, size of bottles)?
5.	Is time or flow paced sampling required?
6.	If flow paced, what type of flow signal is available (4-20mA, or pulsed outputs)?
7.	Are any analytical parameter inputs required?
8.	Is the sampler to be hard wired into a scada system or does it require any form of wireless comms?

**Supplied by:** Envitech Ltd. Unit S7, Capital Business Park, Parkway, Cardiff, CF3 2PU  
Tel: 02920 364252, Fax 02920 369876, E-mail: sales@envitech.co.uk

Note To End Users : These specifications are subject to change at any time without notice. Envitech Ltd takes no responsibility for the use of these figures. Please consult Envitech Ltd for the latest specifications before using them in tender submissions or third party quotes... Envitech Ltd reserves the right to change specifications without prior warning. All quoted figures are based on test conditions and are subject to variation due to site conditions.