

Product Data Sheet

VS8500 Series Intelligent Viable Air Sampler

The iVAS series of intelligent viable air samplers form a key part of any environmental monitoring system for your most critical areas. The iVAS offers unrivalled efficiency and consistency in microbiological monitoring. With the ability to run at different speeds and sampling modes, the iVAS provides a flexible solution to your viable sampling needs.

All the key components are integrated into a single unit making it quick and easy to build into new and existing facilities, without the need to provide an external vacuum.

The iVAS communicates seamlessly with Pharmagraph's enVigil V EMS software to provide powerful real-time and historical data in a 21 CFR Part 11 compliant environment. Instrument tracking tools allow for effortless management of the calibration status and location of each iVAS. Although optimised for use with enVigil software, iVAS uses industry standard Modbus protocol and runs from 24Vdc to cater for the widest variety of monitoring and application software.



Flexible

Capable of running at 50 lpm or 100 lpm in either continuous or user-programmable intermittent sampling modes.



Compliant

Meets EN 17141:2020 and GMP Annex 1 requirements at both flow rates.



Integrated

The iVAS incorporates a perforated head, impeller, flow control and communication systems into a single highly integrated unit.



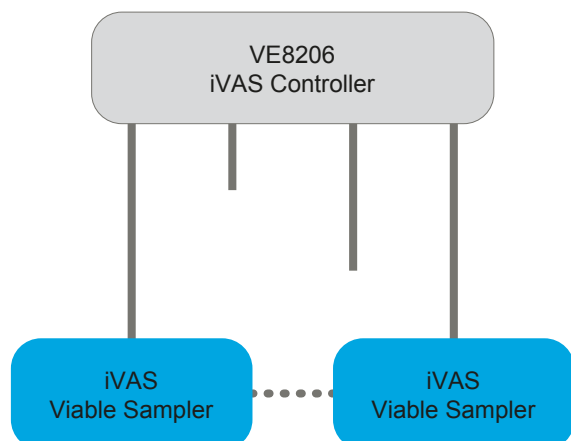
Swappable

Calibration data stored onboard each iVAS allowing them to be removed for offline calibration on and off site. Minimising downtime.

The iVAS is available with a pedestal mount for use in rooms and BSCs or can be built into isolators and filling lines in a triclamp configuration. Sample plates (90mm) can be readily deployed and recovered even with gloved hands, thanks to the quick fit 316 Stainless Steel head.



System Design



A single cable carries both RS485 communications and 24Vdc power to each iVAS. The connection is via a quick release connector on the free-standing pedestal unit or via a cable rising through the mounting column in the tri-clamp variant. This ensures fast and straightforward iVAS swap outs.

Up to six iVAS units can be connected to a Pharmagraph VE8206 interface module that offers a quick and easy Ethernet connection to the host PC. Further iVAS units can be readily accommodated via additional VE8206 modules on Ethernet.

The VE8206 interface module can be deployed below the filling machine base plate or conveniently installed in a plant room where necessary.



Technical Specifications

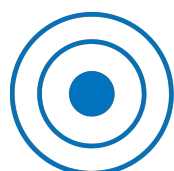
Flow Rate	50lpm or 100lpm	Flow Measurement	Integral flow and volume measurement
Running Modes	Continuous or user-programmable intermittent sampling	Sample Plates	90mm diameter +1mm/-5mm, 13mm to 17mm height
Measured D₅₀ Value	1.1 μm @ 100lpm, 1.4 μm @ 50lpm	Communications Interface	Serial RS485 Modbus RTU protocol
Dimensions (Pedestal)	125mm(h) x 105mm(d)	Weight (Pedestal)	1.95 kg
Dimensions (Triclamp)	145mm(h) x 105mm(d)	Weight (Triclamp)	2.05kg
Power Supply	24Vdc +/- 10%	Current Consumption (100lpm)	0.65A running, 1.25A startup
Material of Construction	316L Stainless Steel	Current Consumption (50lpm)	0.2A running, 0.4A startup
Operating temperature	10 to 30°C	Cleaning Agent Tolerance	IPA, VHP
		Storage temperature	-20 to 60°C



Ordering Information

Item	Description
VS8501	Pedestal iVAS for 90mm petri dishes
VS8502	TriClamp mount iVAS for 90mm petri dishes
VE8206	iVAS Controller with Ethernet Interface for up to 6 off VS850x (Note: If using digital I/O to control the connected iVAS units, there is a limit of 4 off iVAS)

For details of optional accessories, please see separate datasheet.



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 <https://aquaanalytic.com.ua/>

 +38 057 725 95 01

 info@aquaanalytic.com.ua