Volatile organic compounds sampler

The IVOC-sampler 01 is a special sampler for volatile organic compounds in mbient air, workplaces, and organized emissions from industrial production. The sampler is a special sampling equipment for TVOCs, benzene, toluene, xylene and other organic matter in the ambient air. The technical performance index of the sampler conforms to the relevant standards promulgated by the state. During the development process, the opinions of experts and users were widely solicited, and the application of high-performance processors, imported sampling pumps, high-precision mass flow sensors and high-tech in the field of new materials was made to provide users with a high-quality sampler with reliable quality and stable performance Volatile organic Matter sampler (hereinafter referred to as sampler) is a special sampler developed by our company for sampling volatile organic matter in ambient air, workplace and organized emissions from industrial production. The sampler is a special sampling equipment for TVOCs, benzene, toluene, xylene and other organic matter in the ambient air. The technical performance index of the sampler conforms to the relevant standards promulgated by the state. During the development process, the opinions of experts and users were widely solicited, and the application of high-performance processors, imported sampling pumps, high-precision mass flow sensors and high-tech in the field of new materials was made to provide users with a high-quality sampler with reliable quality and stable performance

Feature

- Original flow control algorithm, small flow stability.
- Imported mass flow sensor, high flow control precision Imported sampling pump, constant current sampling, good stability built-in high energy lithium battery, a charge of more than 24 hours
- Automatic measurement of atmospheric pressure, temperature, automatic calculation of standard flow and standard volume.
- Real-time sampling, timed sampling, constant-volume sampling, and interval sampling can be selected. Undervoltage and power failure protection function can continue to sample incoming calls to ensure that the sampled data is not lost.
- Built-in 2-micron dual dust filter to protect the inside of the instrument from the influence of dust, longer service life - multi-purpose machine, support adsorption tube, solution absorption bottle, filter membrane and other sampling methods.
- Small size, light weight, with triangular support, adjustable sampling height.

Specification

Model	IVOC-sampler 01
Sampling flow	(10~300)mL/min (20~500)mL/min（optional）
Load capacity	Overcome resistance above -20kPa at 100ml/min flow
Resolution	1mL/min
Accuracy	Better than ±5%
Operating temperature	- 20 ~ + 60 ℃
Data storage capability	1000 groups
Battery operating time	More than 24 hours
Instrument noise	<60dB(A)
Machine weight	About 0.65kg
Host size (mm)	234×134×45
Power dissipation	<10w

Exhaust gas VOCs sampler

IVOC-sampler 02 collects volatile organic compounds from stationary pollution sources using solid phase adsorption method. It can also collect benzene series, aldehydes and ketones, halogen and other volatile organic compounds in the ambient air. The product is designed by the combination of sampling pump, flow control unit, condensation dehumidification unit, heating sampling tube and other functions, compact structure, lightweight and portable, widely used in environmental protection, health, labor, safety supervision, military, scientific

Feature

- The whole set of equipment is a combination design: sampler, flow control, refrigeration dehumidification device, water collector, heating sampling tube, adsorption tube, dryer and other functional organic combination, compact structure, lightweight and portable.
- Main and bypass dual sampling, automatic control, no manual involvement, more accurate control.
- The built-in water separator of semiconductor refrigeration can effectively remove the water in the flue gas to prevent water vapor from entering the adsorption tube and affecting the measurement results. The adsorption tube is placed in the refrigeration box, so that the adsorption tube is in an ideal temperature environment (0~5℃), and the adsorption efficiency of the adsorption tube is improved. Aftert he main adsorption tube, a cascade adsorption tube can be installed for testing whether the adsorption tube penetrates.
- The anti-adsorption polytetrafluoroethylene material is used in the sampling tube, and PID high-precision temperature controller is used in the whole heating sampling tube, with control accuracy better than 2℃.
- The front end of the sampling tube has a built-in 2-micron fine filter to effectively remove the influence of dust particles. Large data storage can store up to 1000 groups of sampling data.
- Optional Bluetooth print, print out test data..

Specification

Sampling section	Flow rate	(0.010~0.300) L/min	Accuracy
		(0.020~0.500) L/min(选配)	2.5%
	Load capacity	100ml/min,＞-20kPa	
	Data storage	1000	
	Operating temperature	(-20~+70)℃	
	Machine weight	约8.0kg	
	Overall dimensions (mm)	400mm×280mm×290mm	
	Overall power consumption	<80w	
Sampling tube section	Effective length	1.0m	
	Tracing hose	2.0m	
	Core tube material	PTFE	
	Temperature setting	(80~160)℃	Not more than ±2℃
Constant temperature and freezing	Temperature control temperature	(0~ 35)℃	Not more than ±2℃

Dual VOCs sampler

The IVOC-sampler 03 samples volatile organic compounds from ambient air, stationary source gases, and organized emissions from industrial production. The sampler can be used in TVOCs, benzene, toluene, xylene and other organic special sampling equipment, and the technical performance index of the sampler conforms to the relevant standards promulgated by the state. The sampler uses high performance processor, imported sampling pump, high precision mass flow sensor and high technology in the field of new materials, and tries to provide users with a high quality sampler with reliable quality and stable performance

Feature

· Adopt low noise imported brushless sampling pump, high load capacity, long service life.
· Flexible use mode, can be used for ambient air VOCs sampling, can also be used for fixed pollution source exhaust gas VOCs sampling dual sampling, each way can be controlled separately, flexible sampling mode, timing, immediate multiple sampling modes can be set.
· High precision mass flowmeter, more accurate flow measurement.
· Built-in high-efficiency lithium battery, dual simultaneous sampling time is greater than 8 hours.
· Built-in 2-micron dual filter, effectively protect the instrument from dust, longer service life, wide temperature and high brightness color display
· With power failure protection function, the sampled data is not lost during power failure sampling.
· Multi-purpose machine, can achieve waste gas VOCs, ambient air vOCs, benzene series and other pollutants sampling large capacity data storage, single sampling storage data more than 500 groups.
· Built-in Bluetooth module, optional Bluetooth printer for sampling data printing small size, light weight, equipped with triangle bracket, adjustable sampling height.
· Optional constant temperature sampling box, the adsorption tube can be placed in the sampling box, so that the adsorption tube in the ideal temperature environment (0~5℃), improve the adsorption efficiency of the adsorption tube can be installed after the main adsorption tube, for testing whether the adsorption tube penetration.
· The sampling tube is made of anti-adsorption polytetrafluoroethylene material, and the sampling tube is equipped with PID high-precision temperature controller for the whole heating process. The control accuracy is better than 2℃.

Specification

Main parameter		Parameter range	Resolution	Accuracy better than
Sampling flow		(0.010~0.300) L/min (0.020~0.500) L/min(optional)	0.0001 L/min	Plus or minus 2.5%
Atmospheric pressure		(50~110)kPa	0.01 KPa	Better than ±500Pa
Ambient temperature		(-50~+100) ℃	0.1 ℃	Better than ±2℃
Maximum sampling volume		9999.999 L	0.001 L	
Sampling time		1min ~99h59min	1min	
Load capacity		When the flow rate is 0.100L/min, the resistance above -20 kpa is overcome		
Data storage		500 sets (per route)		
Battery capacity		14.8V, 3350mAh		
Working hours		>8 hours (dual start at the same time, 0.1L/min flow)		
Operating temperature		(-20~+50) ℃		
Noise profile		<55dB(A)		
Dimension		250mm×120mm×50mm		
Machine weight		Approx. 0.8kg		
Power dissipation		<10w		
Sampling tube	Effective length	1.0m		
	Tracing hose	2.0m		
	Core tube material	PTFE		
	Temperature setting	(80 ~160)℃		Not more than ±2℃
Refrigerating tank	Temperature control	(0~ 35) ℃		Not more than ±2℃