

PORTABLE HIGH VOLUME AIR SAMPLER



HV-500R Series

- Compactly-designed body for measuring the work environment.
- Constant-flow system will stabilize the flow rate.
- Touch panel LCD with backlight.
- Brushless motor will not generate aerosol which could affect the result.
- Optional shuttle tube can be fitted for Dioxin sampling .
- Can be calibrated by an orifice flow-meter.
- Correction system for standard conditions.
(20 °C/1 atm. correction, 25 °C/1 atm. correction, or actual flow rate)

The HV-500R is a compact and transportable sampler for Industrial hygiene built to sample at a suction flow rate of 200 to 800L/min.
It has various features and has many attachments for various uses.

● Portable Aerosol Sampler

[HV-500R for aerosol (Open face)]



[HV-500R for aerosol (PM4)]



● Portable Dioxin Sampler

[HV-500R for Dioxin]



[HV-500R for Dioxin]



Specifications

Item Code	090130-31	090130-304	090130-301	090130-302
Model	HV-500R	HV-500R-4S	HV-500RD	HV-500RD1
Purpose of Use	Aerosol Sampling		Dioxin Sampling	
Standard Suction Flow Rate	500L/min.		400L/min.	800L/min.
Configurable Flow Rate Range	200 to 800L/min.			
Accuracy of Constant Flow Rate	Within $\pm 5\%$ of the set flow rate			
Flow Rate Detection	Differential pressure detection method			
Flow Rate Compensation	20°C and 1 atmosphere correction, 25°C and 1 atmosphere correction, or actual flow rate			
Outside Air Temperature Sensor	Semiconductor sensor			
Atmospheric Pressure Sensor	Silicone sensor			
Suction Pump	Brushless blower (rated for 5,000 hours of use)			
Filter Paper	ϕ 110mm			8" x 10" rectangular
Urethane Foam	-	ϕ 90 x 50mm		
Display	Touch panel LCD (with backlit)			
Recording Function	The past 5 sampling results can be checked on the sampler			
Recording Item	Sampling clock, Integrating time, Integrating flow rate, Set flow rate, Average flow rate, Outside air temperature and Error			
Error Items	Power, Flow rate, Pressure, Blower			
Operating Temperature Range	0 to 40°C			
Dimensions(W x D x H)	423 x 200 x 271mm		668 x 200 x 271mm	833 x 310 x 271mm
Weight	7.6kg	8.0kg	12kg	13.5kg
Power Supply	AC180V to 253V, 50/60Hz, 5A			
Accessories	Filter clip, Glass fiber filter ϕ 110mm GB-100R-110A 10pcs			
		Particle size separator PM4, Teflon bind filter T60A20, 50pcs	Shuttle tube, Shuttle tube fitting set, Polyurethane foam 10pcs	
				Rectangular filter holder
			Quartz fiber filter QR-100 10pcs	

Option

Item Code	Name of Part	Details
080130-075	Orifice flow meter (for calibration)	OF-1C
080130-0871	Filter clip	For HV-500R
080130-0991	Short holder set	SUS case \times 1, Removal fixture \times 1, PTFE packing \times 1 Short urethane holder (not including urethane) \times 1
080130-042	Particle size selector, SPM	10 μ m , 100 % cut (SPM)
080130-0874	Particle size selector, PM4	4 μ m , 50 % cut
080130-047	Particle size selector, PM2.5	2.5 μ m , 50 % cut
080130-045	Particle size selector, PM10	10 μ m , 50 % cut
080130-0871	Filter case (Circular)	For ϕ 110mm Circular filter, 5pcs
080130-0973	Filter case (Rectangular)	For 8" \times 10" rectangle filter
080130-0904	Leak check rubber pate (Circular)	For ϕ 110mm Circular
080130-0906	Leak check rubber pate (Rectangular)	For 8" \times 10" rectangle



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