

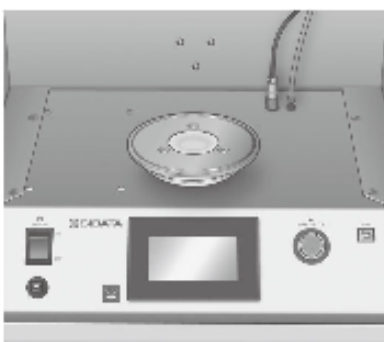


HV-1000R(For Aerosol/Dioxin) HV-700R (For Dioxin)

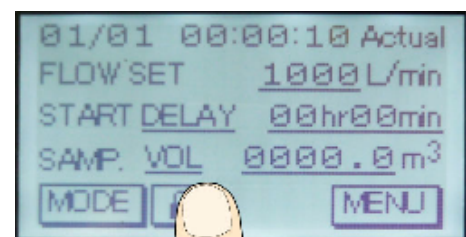
The HV-1000R and 700R are samplers intended for outdoor use. These products sample suspended dust in the open face, and provide quantitative analysis of dust concentration and composition. High-accuracy flow rate control is provided by a differential pressure detection system, and instantaneous and cumulative flow rate values are displayed digitally. Reductions in suction flow rate due to increased dust collection are minimized thanks to a constant flow rate function. This product can be used to collect airborne dust by attaching the through pipe. Similarly, it can also be used to collect dioxins by attaching the shuttle tube (tube for polyurethane foam attachment). It is capable of stable, high flow rate sampling, and so can be used under a wide range of conditions as an airborne toxic substance sampler.

Features

- Fold up design makes movement and storage convenient.
- Capable of high accuracy flow rate control thanks to a differential pressure detection system.
- The instantaneous and cumulative flow rate can be operated with 20 °C and 1 atmosphere correction, 25 °C and 1 atmosphere correction, or actual flow rate.
- Incorporates a constant flow rate function to minimize drops in the suction flow rate accompanying increased suction pressure caused by sampling of dust, etc.
- A backlit touch panel is adopted to enable even more convenient operation.
- Two timer functions are provided for starting operations: a delay timer based on the time, and a clock timer based on the calendar date. Two types of timer sampling for ending operations are also available: a sampling timer based on the time, and a volume timer based on cumulative flow rate. Manual operation without using the timers is also possible.
- A brushless motor is adopted, minimizing dust generation and extending motor life.
- Noise reduction implemented
- If a power outage occurs, the remaining sampling is continued automatically after the power recovery.
- The high volume through pipe and shuttle tube for polyurethane foam attachment are easy to attach.
- The polyurethane foam can be left in the shuttle tube for storage or conveyance, shielding it from light and air (HV-1000R for dioxins, HV-700R).
- Absolutely no grease is used in the sampling line.
- A sampling data recording function is provided. The past 5 sampling results can be checked on the sampler. Data can also be retrieved by connecting a PC and entering a communication command.



Touch Panel LCD with backlit



Specifications

Item Code	090130-23	090130-22	090130-21
Model	HV-700 R (for Dioxin)	HV-1000 R (for Dioxin)	HV-1000R (for Aerosol)
Standard Suction Flow Rate	100 or 700L/min (quartz fiber filter + polyurethane form x 2pcs)	700L/min (quartz fiber filter + polyurethane form x 2pcs)	1000L/min (quartz fiber filter)
Configurable Flow Rate Range	100~ 700L/min	500~ 1200L/min	
Accuracy of Constant Flow Rate	Within $\pm 5\%$ 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	Semiconductor Sensor		
Atmospheric Pressure Sensor	Silicone type		
Suction Pump	Brushless blower (rated for 5,000 hours of use)		
Filter Paper	8"×10" rectangular filter		
Urethane Foam	$\phi 90 \times 50\text{mm}$	-	
Display	Touch panel LCD (with backlit)		
Recording Function	The past 5 sampling results can be checked on the sampler		
Recording Items	Sampling clock, Integrating time, Integrating flow rate, Set flow rate, Average flow rate, Outside air, Error		
Error Items	Power · Flow rate · Pressure · Blower—		
Operating Temperature Range	0~ 40°C		
Power Outage Countermeasures	Continues with the prior operating condition after power recovery		
Dimension/Weight	575 (W) × 575 (D) × 1420 (H) mm Approx. 31kg		
Power Supply	AC180 V to 253V, 50/60Hz 5A		
Accessories	Shuttle tube, 1; Filter case, 1; Quartz fiber filters, 10; Polyurethane foam, 10		Filter case 1 set

Option

Item Code	Name of Part	Details
080040-021	Andersen sampler	AH-600
080130-055	Orifice flow meter (for calibration)	OF-1S
080130-0991	Short holder set	SUS case × 1 Removal fixture × 1 PTFE packing × 1 Short urethane holder (not including urethane) × 1
080130-061	Particle size selector for HV-1000F	10 μm , 100 % cut
080130-067	Particle size selector, rectangular PM2.5	2.5 μm , 50 % cut
080130-065	Particle size selector, rectangular PM10	10 μm , 50 % cut
080130-0906	Leak check rubber pate (HV rectangular)	For 8" × 10" rectangle



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