

HIGH VOLUME AIR SAMPLER MODEL HV-RW for Aerosol/Dioxin



The HV-RW is the sampler intended for outdoor use.

It samples 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. It 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

Functions to support Accurate Sampling

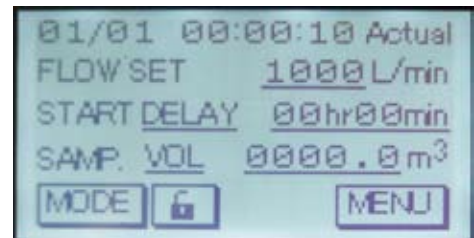
- ❖ Incorporates a constant flow rate function to minimize drops in the suction flow rate accompanying increased suction pressure caused by sampling of dust, etc.
- ❖ If a power outage occurs, the remaining sampling is continued automatically after the power recovery.
- ❖ A sampling data recording function 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.



Sampling Scene using HV-RW

Flexible to meet the requests

- ❖ Can set any flowrate from 100L/min to 1200L/min.
- ❖ The instantaneous and cumulative flow rate can be operated with 20°C and 1 atmosphere correction, 25°C and 1 atmosphere correction, 0°C 1 atmosphere correction, or actual flow rate.
- ❖ 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.



Touch panel LCD

Easy Handling

- ❖ Fold up design makes movement and storage convenient.
- ❖ A backlit touch panel is adopted to enable even more convenient operation.
- ❖ 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 (for dioxins).
- ❖ Absolutely no grease is used in the sampling line.
- ❖ There are options available in each sampling equipment.



Fold up HV-RW

High Quality and Easy Maintenance

- ❖ A brushless motor is adopted, minimizing dust generation and extending motor life.
- ❖ Noise reduction implemented.
- ❖ Capable of high accuracy flow rate control thanks to a differential pressure detection system.

Specifications

Item code	080130-1201	080130-1203
Model	HV-RW for Aerosol	HV-RW for Dioxins
Standard Suction Flow Rate	100 or 700L/min (Quartz fiber filter + Polyurethane form × 2) 566, 1000L/min(glass fiber filter)	
Configurable Flow Rate Range	100~1200L/min	
Flow Rate Detection	Differential pressure detection method	
Accuracy of Constant Flow Rate	Within ±5% theset flow rate	
Suction Pump	Brushless blower	
Display	Touch panel LCD(with backlight)	
Power Outage Countermeasures	Continues with the prior operating condition after power recovery	
Operating Temperature	0~40°C 10 to 90% rh(with no condensation)	
Power Supply	100VAC(90VAC to 132VAC), 220VAC(180VAC to 264VAC)50/60Hz	
Filter Paper	8"×10" rectangular filter	
Urethane Foam	—	φ90×50mm
Shelter	Quality of material:aluminium(Folding possible)	
Dimension	Usage conditions :575(W)×575(D)×1420(H)mm, Sampling port height:1210mm(From installation surface) Folded up:575(W)×575(D)×960(H)mm	
Weight	Approx. 31kg	
Accessories	Filter case, 1;Through pipe, 1	Filter case, 1;Shuttle Tube, 1;Quartz fiber filter, 10;Polyurethane foam, 10

*Not include Paper filter and Polyurethane foam for aerosol model. Please prepare separately.

●HV-RW control part

Item code	080130-1200
Model	HV-RW-K1
Configurable Flow Rate Range	100~1200L/min
Flow Rate Detection	Differential pressure detection method
Suction Pump	Brushless blower
Power Outage Countermeasures	Continues with the prior operating condition after power recovery
Operateing Temperature	0~40°C 10 to 90% rh(with no condensation)
Power Supply	100VAC(90VAC to 132VAC), 220VAC (180VAC to 264VAC) 50/60Hz



Control part

●Shelter part

Item code	080130-1205
Model	HV-RW-S1
Dimension	Usage conditions 575(W)×575(D)×1420(H)mm Sampling port height 1210mm (From installation surface) Folded up 575(W)×575(D)×960(H)mm



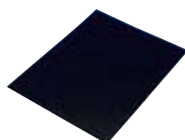
Shelter part

■Option for Aerosol & maintenance MODEL HV-RW/-700R/-700F/-1000R/-1000F



Filter case

Item code	080130-0973
Details	8"×10" rectangular filter



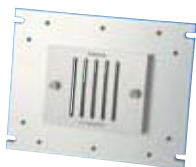
Leak check rubber plate
(Only use HV-RW/-700R/-1000R)

Item code	080130-0906
Details	8"×10" rectangular filter



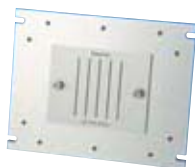
Particle size selector Rectangular SPM

Item code	080130-061
Details	10μm, 100% cut



Particle size selector Rectangular PM10

Item code	080130-065
Details	PM10



Particle size selector Rectangular PM2.5

Item code	080130-067
Details	PM2.5

■Option for Dioxins sampling for MODEL HV-RW/-700R/-700F/-1000R/-1000F



Shuttle tube set

Item code	080130-0971
Details	SUS tubex1, Cap × 2, Clamp with key × 2 Urethane holder (Not including urethane) × 1 Urethane fixing(Mettal port) × 1



Only Shuttle tube

Item code	080130-0970
Details	SUS tubex1, Cap × 2, Clamp with key × 2 Not including urethane



Urethane holder

Item code	080130-0972
Details	Tube for urethane made by glass Not including urethane Urethane fixing(Mettal port) × 1



Filter case Clamp

Item code	080130-0994
Details	For Shuttle tube (Not including key) × 1



Short holder set

Item code	080130-0991
Details	SUS Casex1, Removal fixture × 1, PTFE packing × 1, Short Urethane holder (Not including urethane) × 1 Urethane fixing(Mettal mesh) × 1



Short Urethane holder

Item code	080130-09911
Details	Tube for urethane made by glass Not including urethane Urethane fixing(Mettal mesh) × 1

■Disposables for MODEL HV-RW/-700R/-700F/-1000R/-1000F

Glass fiber filter

Item code	080130-051
Model	GB-100R-810A
Qty/set	50pcs/set
Details	8"×10" rectangular filter

Quartz fiber filter

Item code	080130-053
Model	QR-100
Qty/set	50pcs/set
Details	8"×10" rectangular filter

Glass fiber filter with slit

Item code	080130-052
Model	GB-100R-810B
Qty/set	50pcs/set
Details	126mm×166mm with slit for Particle size selector, rectangular PM2.5, PM10, SPM

Polyurethane foam

Item code	080130-0941A
Qty/set	10pcs/set
Details	φ90mm×50mm

Activated carbon fiber felt

Item code	080130-056A
Qty/set	10pcs/set
Details	φ84mm

Specifications, and appearance described in this document are based on information as of 25 August, 2015. They are subject to change without notice for improvement of the product.

SIBATA SCIENTIFIC TECHNOLOGY LTD.

 1-1-62, Nakane Soka-City, Saitama, Japan
 TEL:+81-48-933-1582 FAX:+81-48-933-1591
 E-mail:overseas@sibata.co.jp
<http://www.sibata.co.jp/english/>