







## Research International Air Sampler Comparison

Product	Air Flow & Type	50% capture microns (Sample)	Power	Weight	Mount Type	Temp. (C)	Applications/Examples
<b>SASS 2300</b> Wetted-Wall Air Sampler 	325 LPM wetted wall cyclone, patented. Microprocessor based, programmable, remote control, RS-232	1.5-2.0 $\mu$ (4 to 5 ml liquid sample provided in 8ml storage vial)	16 W Wall power or battery	3.7 kg 4.7 kg with battery Add 1 kg for 1 liter of water	Vertical	0-66°	Where a liquid sample is needed, or for automated or remotely controlled systems. Onboard 8 ml storage vial.  Public health, food processing, poultry, cooling towers, military, civil defense, mail rooms, agriculture, environmental, building health, subways, allergen monitoring, bird/swine flu.
<b>SASS 2400</b> Low-Volume Air Sampler 	40 LPM wetted wall cyclone, patented Also available as a bare kit.  Microprocessor controlled, programmable, remote control, RS-232	1.0-1.5 $\mu$ (1 ml liquid sample provided in 8ml storage vial)	9 W Wall power or battery	3.7 kg 4.7 kg with battery Add 1 kg for 1 liter of water	Vertical	0-66°	Where a liquid sample is needed, or for automated or remotely controlled systems. Small sample volume extends onboard makeup water. Onboard 8 ml storage vial.  Nucleic acid-based assays. Public health, food processing, poultry, cooling towers, military, civil defense, mail rooms, agriculture, environmental, building health, subways, allergen monitoring, bird/swine flu.
<b>SASS 3100</b> Dry Air Sampler 	300 LPM dry filter type aerosol sampler.  Microprocessor controlled, programmable, remote control, RS-232	0.5 $\mu$ 4.4 cm effective diameter electret filter  4-8ml liquid sample with SASS 3010 particle extractor	<10 W Wall power or battery	2.0 kg 3.0 kg with battery	Any	-40 to 70°	Where a dry initial sample is preferred; below-freezing temperatures; long operation or long sample storage.  Building health, food processing, hospitals, feedlots, environmental, clean rooms, nuclear facilities, UAV's, military, civil defense, subways, allergen monitoring, public health, bird/swine flu.

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<b>SASS 4000</b> Aerosol Concentrator 	Aerosol concentrator: 4000 LPM inlet air flow, 30-360 LPM secondary airflow	0.5 $\mu$  Concentration increase of 4-15 times	160 W  Wall power No battery	6.3 kg	Any	-40°- 70°	Two-stage high volume device concentrates aerosols for delivery to a collector. Large monitored areas surrounding sampler; below freezing operation, dry method, dilute aerosols.  Shipping containers, farms, open air markets. Stadiums, building health, food processing, environmental, nuclear facilities, military, civil defense, allergen monitoring, public health, bird/swine flu, airports, train stations, subways.
<b>SASS 4100</b> Two-Stage Aerosol Concentrator 	Aerosol concentrator: 4000 LPM aerosol sampler, filter based	0.5 $\mu$  Uses 3100 filters (4-8ml liquid sample with SASS 3010)	160 W  Wall power No battery	6.3 kg	Any	-40°- 70°	Large monitored areas. Subzero. Dry method, one moving part.  Shipping containers, farms, open air markets. Stadiums, building health, food processing, environmental, nuclear facilities, military, civil defense, allergen monitoring, public health, bird/swine flu, airports, train stations, subways.
<b>SASS 4200</b> Vehicle-Mount Concentrator 	Mobile concentrator: 4000 LPM inlet air flow, 40-360 LPM secondary airflow	0.5 $\mu$  Concentration increase of 4-15 times	160 W  No battery	16.3 kg	Vehicle Roof	-40°- 70°	When large volumes need sampling on a mobile platform. The high-volume 4200 is typically mounted outside and connected to a low flow volume collector inside vehicle. Subzero operation, dry method, shock resistant. Mobile trace monitoring: Cities, farms, open air markets, sporting events, stadiums, environmental, nuclear facilities, military, civil defense, allergen monitoring, public health, bird/swine flu.