

AS-03 (Air-Sampler)

Due to strict environmental rules, it is highly necessary to sample aerosols or gas-phase materials. Especially, the product protection against fine particles or gas-phase materials is essential in semiconductor, LCD or any precision manufacturing fields. The Model AS-03 is the instrument to sample these gas-phase materials.

Portable sampler

Maximum of 12 hours (Using a built-in battery for operating with 2 LPM)

User-friendliness

- The touch screen enables a convenient control.
- The sampling start or shutdown can be scheduled using the built-in timer.
- Sampling can be done by setting either the sampling time or the total flow rate.

Optimization for clean-room environments

A built-in HEPA filter is used to prevent contamination by a pump, optimal for sampling in a clean-room

Accuracy of flow rates

- The differential pressure sensor assures a higher accuracy for the air sampler.
- Guarantee of the accuracy of flow rates ($\pm 5\%$ full scale) throughout flow rate correction.

Application:

- Sampling in hospital or bioengineering research center
- Sampling in clean-room
- Sampling in factories or industrial field



SPECIFICATIONS

- Sampling flow rate : 1~3L/min
- Flow rate accuracy : $\pm 5\%$ of full scale
- Gas temperature range : 10~50°C
- Gas pressure range : 1 ± 0.2 ATM
- Operating hours : 12 hrs @ 2 L/min
(in full charging battery)
- Battery charging time : 4~5 hrs
- LCD display : Graphic color LCD (400 x 240 pixel)
- Dimensions (LWH) : 160 x 190 x 190 mm (7.5 x 6.3 x 7.5 in)
Impinger : 240 mm x \varnothing 45 (9.5 lb x \varnothing 45)
- Weight : 2.6 kg (5.7 lb)
- Power : 100~240 VAC, 50/60 Hz
- Part Number
 - 6C06001 Power Cable
 - 1901001 Impinger

VI-104 (4-Stage Impactor)



According to environmental regulations, it is needed to analyze airborne particles to identify their components or composition. Such particles should be collected to be analyzed. VI-104 is the instrument to be used to collect them.

Application:

- Aerosol Research : Particle sampling, collection, generation and transport
- Particle analysis in clean-room and associated controlled environments
- Indoor and outdoor air quality research
- Bio-aerosol research



SPECIFICATIONS

- Sampling flow rate : 20 L/min
- Particle Cut-off Diameter: 1.0, 2.5, 5.0 and 10 μ m
- Front panel display : Touch screen LCD Panel
(Set-up reserved time / operation time / Display present time)
- Dimension (LWH):
Controller : 320 x 235 x 240 mm (12.6 x 9.3 x 9.5 in)
Impactor : \varnothing 78 x 265 H mm (\varnothing 78 x 10.4 in)
- Weight : 6.5 kg (14.3lb)
- Power : 100 ~ 240 VAC, 50/60 Hz
- Part Number
 - 6C06001 Power Cable
 - 7004004 HEPA Filter

DMA-20/05 (Differential Mobility Analyzer)

SPECIFICATIONS

- Particle Size Range :
 - DMA-05 : 2 ~ 160 nm
 - DMA-20 : 7 ~ 830 nm
- Maximum input concentration : 10^7 particles/cm³ @ 10 nm
- Aerosol pressure range : 1 ± 0.1 ATM
- Flow rate :
 - Aerosol : 0.1~1.5 L/min
 - Sheath Air : 1 ~ 15 L/min
 - By pass : None
- Voltage : 10 ~ 10,000 VDC
- Dimensions : DMA-05 : 210 x 36 mm (8.3 x 1.4 in)
DMA-20 : 420 x 76 mm (16.5 x 3.0 in)
- Weight : DMA-05 : 2 kg (4.41 lb) / DMA-20 : 7 kg (15.43lb)



Application:

- Aerosol research : particle generation, nucleation, condensation, coagulation and transport
- Particle charging and electrical mobility studies
- Filter media test
- Mono-disperse particle generation for instrument calibration