MicronView

BAS Neo

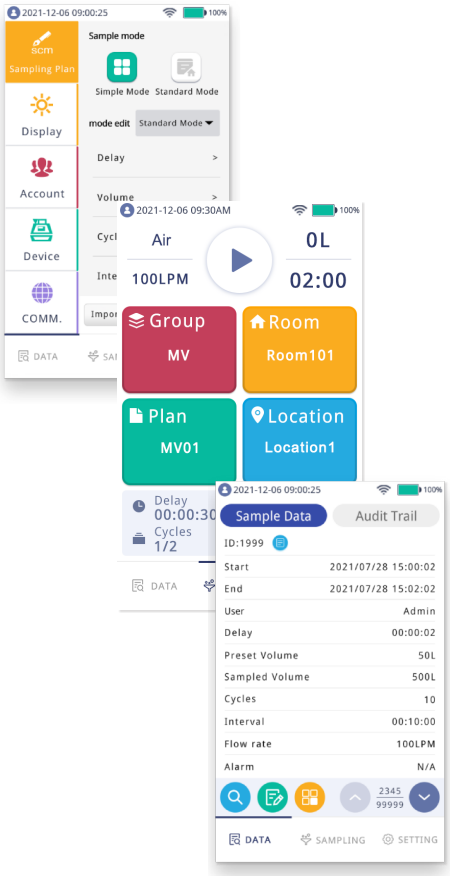
BioAerosol Sampler Neo

The BioAerosol Sampler Neo series is designed to support cleanroom biocontamination control and microbiological monitoring programs in accordance with EU GMP Annex 1, ISO 14698-1/-2, and EN 17141:2020.

With an impact velocity of approximately 21 m/s, the BAS Neo leverages the Anderson impact sampling principle to deliver excellent physical and biological collection efficiency and reliable performance.

FEATURES:

- High Flow Rate Accuracy: Maintains precise flow control at 100 L/min ± 3% and 200 L/min ± 3%.
- Extended Battery Performance: Provides up to 7 hours of continuous operation at 100 L/min (42 m³) or 2.5 hours at 200 L/min (30 m³).
- Configurable User Access: Multi-level authority management with customizable permission settings.
- Flexible Sampling Options: Supports both standard and remote sampling, with remote capability up to 8 meters.
- Calibration Compatibility: Compatible with various flow meter models for convenient and accurate calibration.
- Various Functional Options: Built-in HEPA filter, Scanner, and NFC (Model: C320FNS).



Settings:
Intuitive and Streamlined

- Easily create customized sampling plans
- User-friendly interfaces

Data:
Detailed and Flexible

- Complete sample record storage
- Quick and efficient data lookup
- Export and print data with a single click

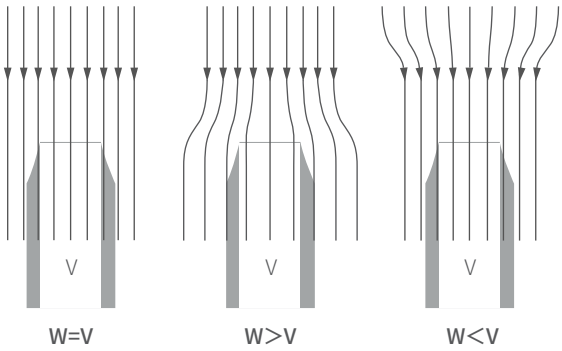
Sampling:
Practical and Precise

- Intelligent sampling modes enable continuous and cyclical sampling
- Clear and distinct sampling process
- LED lighting and audible alarms for error notification

Isokinetic Sampling:

The sampler is designed so that, during isokinetic sampling, the inlet airflow matches the average velocity of the unidirectional flow passing through the sampling head.

The flow velocity above the sampling head is 0.4m/s, consistent with isokinetic sampling.

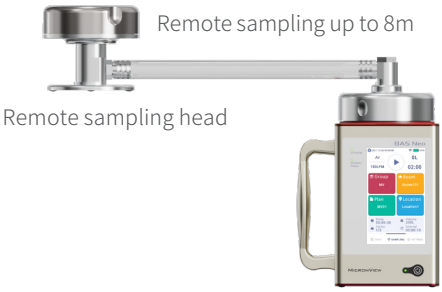


V=Sampling speed of sampling head
W=Speed of unidirectional flow

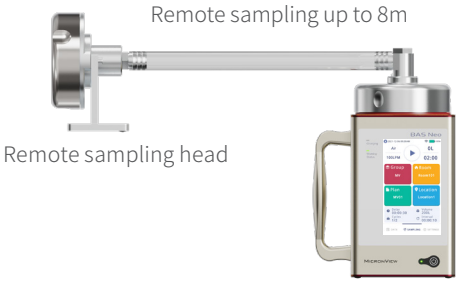
PRODUCT APPLICATIONS:

Remote Sampling:

Remote sampling configurations allow the BAS Neo to sample within an isolator, biological safety cabinet, horizontal laminar flow clean workbench, or other critical zones.



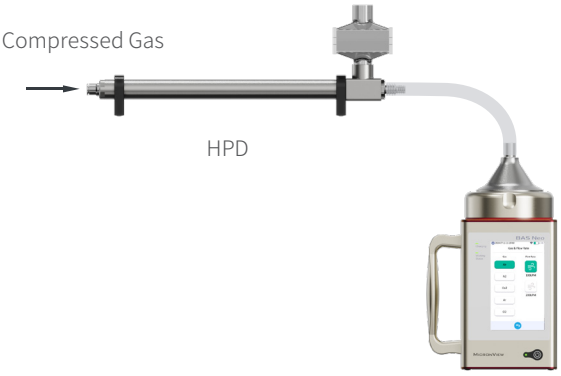
Vertical Flow Sampling

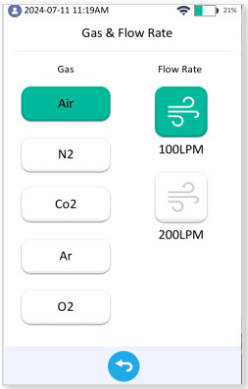


Horizontal Flow Sampling

Compressed Gas Sampling:

Compressed gas is decompressed to atmospheric pressure by the High-Pressure Diffuser (HPD) accessory, then transported to the BAS Neo for sampling.





Product Dimensions:

Model: C320.M

Model: C320F.M

Model: C320FNS.M

Model: C320

Model: C320F

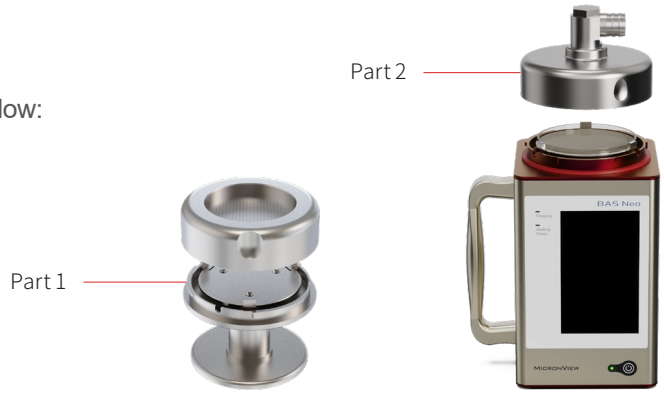
Model: C320FNS

Remote Sampling Module:

The remote sampling module includes the parts below:

Part 1: Remote Sampling Base

Part 2: Remote Adapter



COMMON SPECIFICATIONS FOR ALL MODELS:

Parameter	Description	Parameter	Description
Flow Rate Options	100LPM±3%; 200LPM±3%	Battery	10.8V, 6800mAh rechargeable lithium battery
Flow Rate Control	Built-in mass flow meter	Communication	USB、WIFI
Sampling Plan	20,000 groups, 20,000 rooms, 500 locations for each room, up to 20,000 locations	Application Extension	Connect with the Airborne Particle Counter (APC) and BioAerosol Monitoring System (BAMS) to collect contaminated samples in real time
Sampling Volumes	1-6,000L	Data Storage	20,000 sets of records
Delay	0-23 hours 59 minutes 59 seconds	Alarm	LED lighting and beep
Interval	00:00:00, 5 seconds-23 hours 59 minutes 59 seconds	Display	5"capacitive touch screen
External Surface	Anodized Aluminum	Language	English, Chinese
Power	AC 100-240V, 50 Hz/60 Hz	Calibration Frequency	Annual calibration is recommended
Sampling Head	Φ0.60 mm*280 holes (100L/min) ;Φ0.70mm*400 holes (200L/min) (Anodized Aluminium, 316L stainless steel custom material options available)	Operating Conditions	Temperature: 5°C-35°C (41°F-95°F), 5-90% RH non-condensing
		Storage Conditions	Temperature: 0°C-40°C (32°F-104°F), 5-95% RH non-condensing
		Warranty	24 months (calculated from the date of product activation or six months after the date of manufacture, whichever comes first)

MODEL DIFFERENCES:

Model	C320	C320F	C320FNS
Exhaust Filtration	N/A	Built-in HEPA filter, filtration efficiency＞99.999% for particles @ 0.3μm	
NFC & Scanner	N/A		Supports NFC and features an integrated barcode & QR code scanner
Dimensions (H×W×D)	220.5*163*120mm/8.68*6.42*4.72in	235.5*163*120mm/9.27*6.42*4.72in	
Weight	2.5Kg/5.51lbs	2.55Kg/5.62lbs	2.61Kg/5.75lbs
Battery Life	Battery life ⩾ 7 hours (100L/min) Battery life ⩾ 2.5 hours (200L/min)	Battery life ⩾ 6.5 hours (100L/min) Battery life⩾ 2 hours (200L/min)	

BAS NEO ORDERING INFORMATION:

Name	Model	Order No.
BioAerosol Sampler Neo | BAS Neo	C320	MACHC320
BioAerosol Sampler Neo | BAS Neo (incl. HEPA Filter)	C320F	MACHC320F
BioAerosol Sampler Neo | BAS Neo (incl. HEPA Filter, scanner and NFC)	C320FNS	MACHC320FNS
BioAerosol Sampler Neo | BAS Neo (Magnetic Seal)	C320.M	MACHC320.M
BioAerosol Sampler Neo | BAS Neo (incl. HEPA Filter,Magnetic Seal)	C320F.M	MACHC320F.M
BioAerosol Sampler Neo | BAS Neo (incl. HEPA Filter, scanner and NFC,Magnetic Seal)	C320FNS.M	MACHC320FNS.M

OPTIONAL PARTS ORDERING INFORMATION:

Name	Model	Order No.
Sampling Head (Φ0.60mm*280 holes,100L/min)	S2.A113	S2.S112
Sampling Head (Φ0.70mm*400 holes, 200L/min)	S2.A232	S2.S231
Sampling Head (Φ0.60mm*280 holes,100L/min,Magnetic Seal)	N/A	S2.M112
Sampling Head (Φ0.70mm*400 holes, 200L/min,Magnetic Seal)	N/A	S2.M231
Remote Sampling Module for Vertical Sampling	S4.AV61	S4.SV61
Remote Sampling Module for Horizontal Sampling	S4.AH61	S4.SH61
Microbial Sampling Accessory (BAS Inlet Adapter for use with HPD/EHPD)	S6.0141	N/A
Isokinetic Probe for 200L/min	S1.2001	N/A

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Version:1.0