



Main features

- Economical and Light weight model.
- Advanced technology data logger with PC interface.
- Recommended for use with contact Petri plates 90mm ± 2 mm.
- Rechargeable battery operated (memory effect free).
- Silent electric fan microprocessor controlled to assure the maximum reliability of the air volume sampled.
- Low battery control and alarm.
- User friendly. Prompts in English languages: functions are visualised “step-by-step”.
- Delay start.
- Total volume of sampled air programmable from 1 to 2000 litres, with 1 litre steps.
- Manual sampling (for air volumes greater than 1000 litres).
- Sequential sampling also available.
- Storing and visualising up to 99 samplings, with record of progressive number, date, hour, volume or time of sampling, flow rate, type of sampling (manual, sequential, programmable).
- USB port to download data to PC As per 21CFR software.
- Remote switch with infra-red rays control.
- Two sampling positions (90°-180°) and built-in socket for tripod.

HiEco AirFlow Air Sampler Kit Contains :

- Airflow Economical Sampler
- Carrying case
- Battery charger
- I.R. remote control
- Data Download Software
- Calibration Report
- Warranty card
- User manual in English



Sr. no	Code	Product	Packing
1.	LA881	HiAirflow Economical Sampler For quantitative detection of Airborne microorganisms	1 no
Accessories for HiAirflow Economical Sampler			
2.	LA724B	Battery charger	1 no
3.	LA724C	I. R. remote controller	1 no
4.	LA724D	Data download software	1 no
5.	LA724E	Rechargeable battery set	1 no
6.	LA724F	Autoclavable anodized aluminium sampling head	1 no
7.	LA724G	Master tripod (optional)	1 no



Production facility



R & D Centre

HiMediaLaboratories™

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For Life is Precious



For Life is Precious



LA881
HiAirFlow™
Economical
and
Light weight

With

**Advance Technology
Data Login as per 21CFR
compliance software**

**As per ISO 14698, USP
chapter <1116>, 2022**

HiMediaLaboratories™
himedialabs.com

Literature Code : TL299_2HiAir Flow Economical/0324



HiMedia Laboratories Private Limited, one of the world's leading manufacturers of culture media and microbiological diagnostic reagents, has launched the second generation of its Air Sampler for qualitative and quantitative analysis of air for airborne microorganism in clean zones and clean rooms such as laboratories, operation theaters, food production clean rooms, food manufacturing plants, fermentation plants, electronic industries, vaccine and toxin manufacturing units etc. The equipment conforms to recommendations listed in the Draft ISO Standard ISO/TC209 ISO 14698. 25 July 1999

HiAirFlow Economical Sampler allows the collection of a wide range of airborne biocontaminants by impacting on agar plates filled with appropriate culture media

User profile

- Pharmaceutical manufacturer
- Cell biology labs
- Pharma sterile plant
- Pathological labs
- Molecular biology labs
- Parenterals manufacture
- Blood bank
- Medical research
- Vaccine manufacture
- Fermentation industries
- Air conditioning plants
- Cosmetics manufacture
- Electronics industries
- 5 Star Hotels



Pharmaceuticals



Clean rooms



Tissue culture lab



Operation theaters



Injection filling plants

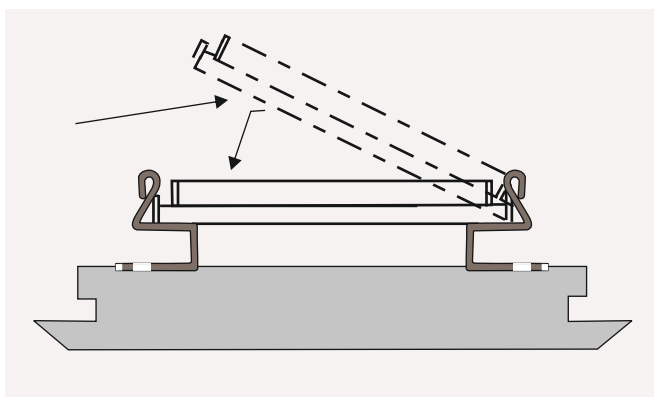
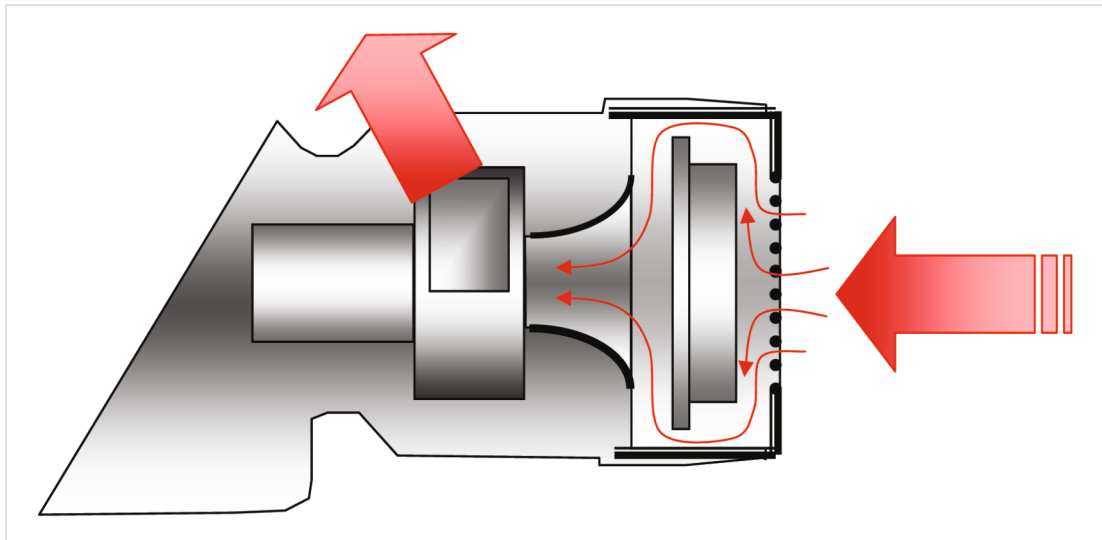


Food industries



Working principle

The air to be sampled is drawn through a perforated head, at constant velocity and for a period of time depending on the condition of the area to be controlled. The inflowing air impacts on the surface of the culture media, (chosen on the basis of the microbiological investigation to be carried out), placed in a 90 mm Petri dish. At the end of the sampling period the Petri dish is removed and placed in an incubator. After incubation it is possible to count the CFU/cm² (Colony forming units/cm²) and evaluate the air biocontamination level of the critical area on the basis of air volume sampled .



Placing the plate



Technical Specification

Flow rates	:	30-60-90-100 -120 l/mi (ISO/TC 209) with anemometer
Sampled Air Volume	:	1 - 2000 litres (and more with manual control)
Case	:	polyurethane joint free easy to disinfect
Sampling head	:	90 mm head : Autoclavable anodised aluminium head, with 380 holes (Ø 1 mm)
Plate support	:	Autoclavable anodised aluminium plate support for 90 mm ±2 mm plates.
Dimensions	:	335x135x175 mm (L x W x H)
Weight	:	1.8 Kg
Power supply	:	Rechargeable Ni/Mh batteries Approximately 4 hours battery backup when fully charged.
Calibration	:	Calibration certificate supplied
Conversion table	:	Conversion table supplied
Note	:	Specifications are subject to change without notice

Air cleanliness class limits as per ISO 14644-1

Classi- fication number Number(N)	Maximum concentration limits (particles/m ³ of air) for particles of the considered sizes shown below					
	0.1µm	0.2 µm	0.3 µm	0.5 µm	1µm	5 µm
ISO 1	10	2				
ISO 2	100	24	10	4		
ISO 3	1 000	237	102	35	8	
ISO 4	10 000	2 370	1 020	352	83	
ISO 5	100 000	23 700	10 200	3 520	832	29
ISO 6	1 000 000	237 000	102 000	35 200	8 320	293
ISO 7				352 000	83 200	2 930
ISO 8				3 520 000	832 000	29 300
ISO 9				35 200 000	8 320 000	293 000

Risk level

Interpretation according to the risk level in the zone to be tested as per Standards and guidelines (pharmaceutical industry):
Cleanroom classification according to EU GMP - guidelines (for sterile products) valid from 2008

cleanroom class	max. number of particles/m ³ ≥ 0.5 µm	max. number of particles/m ³ ≥ 5 µm
A	3,500	0
B	350,00	2,000
C	3,500,00	20,000
D	—	—

Use of cleanrooms : Terminally sterilized product

Technically	Grade	Examples of operation
A	—	Filling of products, when unusually at risk
C	—	Preparation of solution, when unusually at risk.
D	—	Filling of products, preparation of solution and component for subsequent filling.

According to draft-USP chapter <1116>

class	cfu / m ³ air	surface cfu / 24 cm ²	personell; gloves cfu / 24 cm ²	personell; masks cap, overall cfu / 24 cm ²
100	<3	3	<1	<1
10,000	<20	5 (floor)	20	10
100,000	<100	—	—	—

Microbial limits according to EU GMP - guidelines (for sterile products) from valid 2008

class	cfu / m ³ air	sedimentaion plate (≥ 90 mm); cfu / 4h	Rodac plate (≥ 55 mm); cfu	finger print; 5 finger cfu
A	<1	<1	<1	<1
B	10	5	5	5
C	100	50	25	—
D	200	100	50	—

Use of cleanrooms : Aseptic Preparations

Aseptic Grade	Examples of operation
A	Aseptic preparation and filling.
C	Preparation of solutions to be filtered.
D	Handling of components after washing.

Test frequencies (air sampling) for environmental monitoring : according to USP chapter <1116> 2nd. Draft (March/April 1995)

aseptic production (cleanroom area)	evaluation frequency
class 100	each operating shift
class 10,000	each operating shift
class 100,000	2 times per week
class 100,000 (non-product / container contact)	1 time per week