Labexchange
The World's No.1

Labexflow
Clean Benches

General Applications

Non-toxic IV solution, Preparation, Plant tissue culture, Media plate preparation, Electronics inspection, Medical device assembly, Pharmacy drug preparation.

Effective Filtering System

Reliable international standard ISO class 4 air cleanliness as per ISO 14644-1.

▶ Equivalent to Class 10 as per US Federal Standard 209E
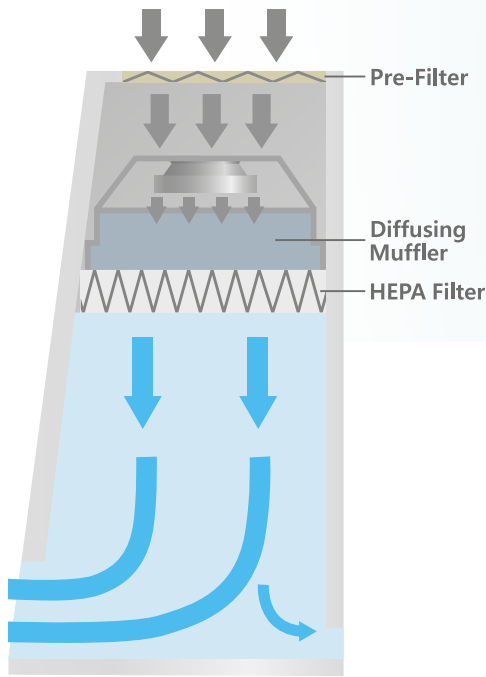▶ 99.99% efficient HEPA filter.

Product Name	Clean Benches (Digital)	Clean Benches (Analog)
Model	LX – D	LX - A
Description	Vertical laminar flow, Digital control	Vertical laminar flow, Analog control
Work space (WxDxH, mm)	945 x 570 x 670, 1245 x 570 x 670, 1845 x 570 x 670	945 x 570 x 670, 1245 x 570 x 670, 1845 x 570 x 670
Air volume (min. / max., cmh)	0 to 1020, 0 to 2040	0 to 1020, 0 to 2040
Airflow veloctivity (m/s)	0.3, 0.45	0.3, 0.45
Air cleanliness within workspace	ISO 14644-1 class 4 (US federal standard 209E class 10)	
Filters (standard / optional)	Standard HEPA filter, Pre filter	

Construction	Work surface	Stainless steel grade 304, Hairline treatment	Stainless steel grade 304, Hairline treatment
	UV lamp	✔	✔
	Display & Control interface	Dual, Digital-touch VFD	Analog-Switch, Knob
	Filter capacity check	Digital-Differential pressure sensor	Analog-Differential pressure guage
Control	Front access for filter replacement	✔	✔
	Diffusing muffler	✔	✔
	Blower speed adjustment	Digital	Analog
Safety	Door open level alarm	✔	-
	Smart door system	✔	-
	UV lamp auto off	✔	✔

Clean Benches (Digital)

Vertical laminar flow clean benches with advanced digital control and various convenient features.
ISO class 4 air cleanliness as per ISO 14644-1. Class 10 as per US Federal Standard 209E. Nominal down flow velocity. (max. 0.45 m/sec)

Pre-Filter

Diffusing Muffler

HEPA Filter

LX-11-D
with optional stand and gas cock
Standard accessories
• HEPA filter, Pre filter
• UV lamp, Fluorescent lamp
• Electrical socket

Performance

▶ ISO class 4 (US class 10) HEPA filter for optimal protection against cross-containment.

▶ 0.3µm and larger particulates are removed with 99.99% efficiency, leak-tight HEPA filter wich satisfying class 10 (US Federal Standard 209E)
(average life span oh HEPA filter:3 years – it depends in the test room conditions)

▶ High-qualitiy polyester fiber pre filter (with minimal pressure loss and 85% arrestant on the A.F.I. test) for trapping larger particles and increasing the life of the main HEPA filter.

▶ Digital airflow rate sensor (microprocessor) for automated airflow speed control.
· Offers continual airflow speed of same velocity and extends the HEPA filter life span.

▶ Exclusive diffusing muffler structure forms high quality laminar flow.

▶ Quiet and comfortable working environment.
(less than 65dB)

Convenience

▶ Interlocking smart door system
· Simply open the door while UV-lamp is on. Interlocking smart door system will automatically turn off UV-lamp, turn on fluorescent lamp and blower instead of your manual control.

▶ Two digital displays for the best convenience.
· Even if any test is ongoing inside of the chamber, unit conditions such as velocity, temperature and humidity can be easily checked by the inner and outside displays.

▶ Digital differential pressure sensor allows for easy verification of HEPA filter condition great for knowing when to change HEPA filter.

▶ When UV light intensity is lower than 80%, UV warning lamp is automatically on to let users know when to change UV-lamp.

▶ Comfortable front access to cartridge type of filters for easy replacement.

▶ Highly durable, rust-free, and easy-to-clean grade 304 stainless steel work surface.

▶ The inner left side magnetic board allows some memos and small tools.

Model	Labexflow LX-11-D	Labexflow LX-14-D	Labexflow LX-20-D
Air flow type	Vertical laminar flow	Vertical laminar flow	Vertical laminar flow
Air volume (minimum / maximum)	0 to 1020 cmh	0 to 2040 cmh	0 to 2040 cmh
Laminar airflow velocity (m/s)	0.3	0,45	0,3
Air cleanliness within work space	ISO 14644-1 class 4, US Federal Standard 209E class 10		
Filters — HEPA filter	Typical efficiency of 99.99% on 0.3 µm (US MIL- STD -282); Micro glass fiber Media, Particle board, AL separator, Neoprene gaskets		
Filters — Pre filter	Polyester fibers with an filter efficiency of 85% (A·F·I TEST); Aluminum frame, Polyester fiber media		
Noise level	Typically < 65dB at blower speed		
Materials — Main body	Steel powder coating		
Materials — Work surface	Stainless steel grade 304, Hairline treatment		
Materials — Windows (front / side)	Colorless and transparent UV absorbing 5mm tempered glass		
Illumination — Intensity (lux)	> 650		
Illumination — Fluorescent lamp (W)	30 x 2ea		32x2ea
	Electronically ballasted Fluorescent Lamp		
Illumination — UV lamp (W)	25 x 1ea	30 x 1ea	25 x 2ea
	Electronically ballasted UV Lamp		
Electric socket outlets	230 V socket		
Dimension (W×D×H) — Interior (mm)	945 × 570 × 670	1245 x 570 x 670	1845 x 570 x 670
Dimension (W×D×H) — Exterior without stand (mm)	1135 × 647 × 1150	1435 x 647 x 1150	2035 x 647 x 1150
Dimension (W×D×H) — Exterior with stand (mm)	1135 × 647 × 1870	1435 x 647 x 1870	2035 x 647 x 1870
Dimension (W×D×H) — Net weight (body) (kg)	140	185	225
Dimension (W×D×H) — Net weight (body + stand) (kg)	170	215	255
Electrical requirements (230V, 1ph)	60Hz / 1.25 A, 50Hz / 1.38 A	60Hz / 1.57 A, 50Hz / 1.73 A	60Hz / 2.09 A, 50Hz / 2.30 A

Safety

▶ UV-blocking and impact-resistant tempered glass door.

▶ If the sash is opened more than the recommended sash height level, during operation, warning alarm will activate and alarm users to lower the window to the recommended sash level to prevent contamination of samples.

▶ If the sash is opened during UV-lamp operation, UV lamp automatically turns off to protect users.

▶ Smoothly sliding front door stoppable at any height for user's safety and easy transport of equipment into the workspace.
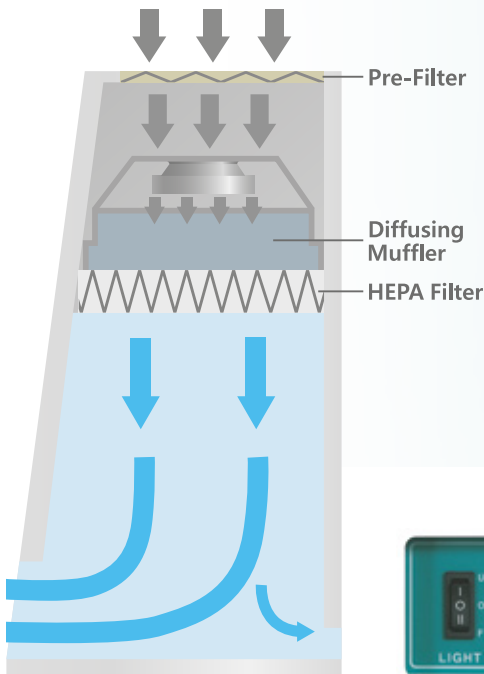
▶ Protection against over-current.

Interlocking smart door system

Clean Benches (Analogue)

Vertical laminar flow clean benches offer quick operation by simple-adjustable analogue control.
ISO class 4 air cleanliness as per ISO 14644-1. Class 10 as per US Federal Standard 209E. Nominal down flow velocity.
(max. 0.45 m/sec)

Pre-Filter

Diffusing Muffler

HEPA Filter

LX – 14 - A
with optional stand Standard accessories
HEPA filter, Pre filter
- UV lamp, Fluorescent lamp
- Electrical socket
- Differential pressure gauge

Performance

▶ ISO class 4 (US class 10) HEPA filter for optimal protection against cross-containment.

▶ 0.3µm and larger particulates are removed with 99.99% efficiency, leak-tight HEPA filter wich satisfying class 10 (US Federal Standard 209E)
(average life span oh HEPA filter:3 years – it depends in the test room conditions)

▶ High-qualitiy polyester fiber pre filter (with minimal pressure loss and 85% arrestant on the A.F.I. test) for trapping larger particles and increasing the life of the main HEPA filter.

▶ Exclusive diffusing muffler structure forms high quality laminar flow.

▶ Quiet and comfortable working environment.
(less than 65dB)

Convenience

▶ Built-in differential pressure gauge for easy checking HEPA filter condition.

▶ Comfortable front access to cartridge type of filters for easy replacement.

▶ Easy blower speed adjustment by the control panel.

▶ Highly durable, rust-free, and easy-to-clean grade 304 stainless steel work surface.

▶ The inner left side magnetic board allows some memos and small tools.

Safety

▶ UV-blocking and impact-resistant tempered glass door.

▶ If the sash is opened during UV-lamp operation, UV lamp automatically turns off to protect users.

▶ Lightning mode selection by 3-position toggle switch (UV / off / fluorescent) preventing harmful UV exposure.

▶ Smoothly sliding front door stoppable at any height for user's safety and easy transport of equipment into the workspace.

▶ Protection against over-current.

Model	Labexflow LX-11-A	Labexflow LX-14-A	Labexflow LX-20-A
Air flow type	Vertical laminar flow	Vertical laminar flow	Vertical laminar flow
Air volume (minimum / maximum)	0 to 1020 cmh	0 to 2040 cmh	0 to 2040 cmh
Laminar airflow velocity (m/s)	0.3	0,45	0,3
Air cleanliness within work space	ISO 14644-1 class 4, US Federal Standard 209E class 10		
Filters — HEPA filter	Typical efficiency of 99.99% on 0.3 µm (US MIL- STD -282); Micro glass fiber Media, Particle board, AL separator, Neoprene gaskets		
Filters — Pre filter	Polyester fibers with an filter efficiency of 85% (A·F·I TEST); Aluminum frame, Polyester fiber media		
Noise level	Typically < 65dB at blower speed		
Materials — Main body	Steel powder coating		
Materials — Work surface	Stainless steel grade 304, Hairline treatment		
Materials — Windows (front / side)	Colorless and transparent UV absorbing 5mm tempered glass		
Illumination — Intensity (lux)	> 650		
Illumination — Fluorescent lamp (W)	30 x 2ea		32 x 2ea
	Electronically ballasted Fluorescent Lamp		
Illumination — UV lamp (W)	25 x 1ea	30 x 1ea	25 x 2ea
	Electronically ballasted UV Lamp		
Electric socket outlets	230 V socket		
Dimension(W×D×H) — Interior (mm)	945 × 570 × 670	1245 x 570 x 670	1845 x 570 x 670
Dimension(W×D×H) — Exterior without stand (mm)	1135 × 647 × 1150	1435 x 647 x 1150	2035 x 647 x 1150
Dimension(W×D×H) — Exterior with stand (mm)	1135 × 647 × 1870	1435 x 647 x 1870	2035 x 647 x 1870
Dimension(W×D×H) — Net weight (body) (kg)	140	185	225
Dimension(W×D×H) — Net weight (body + stand) (kg)	170	215	255
Electrical requirements (230V, 1ph)	60Hz / 1.25 A, 50Hz / 1.38 A	60Hz / 1.57 A, 50Hz / 1.73 A	60Hz / 2.09 A, 50Hz / 2.30 A

Accessories

HEPA filter
- 99.99% efficient HEPA filter, industry standard size for economical replacement.

Stand with casters
- Stand with casters : Mobile stand made of powder-coated steel ideal for easy relocation

Pre filter
Easy-to-replace pre-filter for trapping larger particles and extending the life of HEPA filters

Description	LX- 11-D/A	LX – 14 – D/A	LX – 20 – D/A
HEPA filter	✔	✔	✔
Pre filter	✔	✔	✔
Stand with casters	✔	✔	✔
UV lamp (230V)	✔	✔	✔
UV lamp (120V)	✔	✔	✔
Gas cock	✔	✔	✔
Differential pressure gauge (for LX-A)	✔	✔	✔

More than just buying a clean bench

When purchasing a Labexflow clean bench, you also benefit from Labexchange's experience and broad range of services.

Comprehensive service before and during the entire service life of your equipment

▶ Delivery and installation
▶ Repairs
▶ Annual safety check and maintenance
▶ Exchange and adjustment of filters

Labexchange is the competent partner at your side for all aspects of working with your clean bench

▶ Advice on products and customer service
▶ Dismantling and sale of your clean bench, in case it is no longer in use
▶ Coordination of required services

You benefit from a warranty of 3 years

**We would be pleased to advice you in detail.
Feel free to contact or visit us on labexchange.com**