



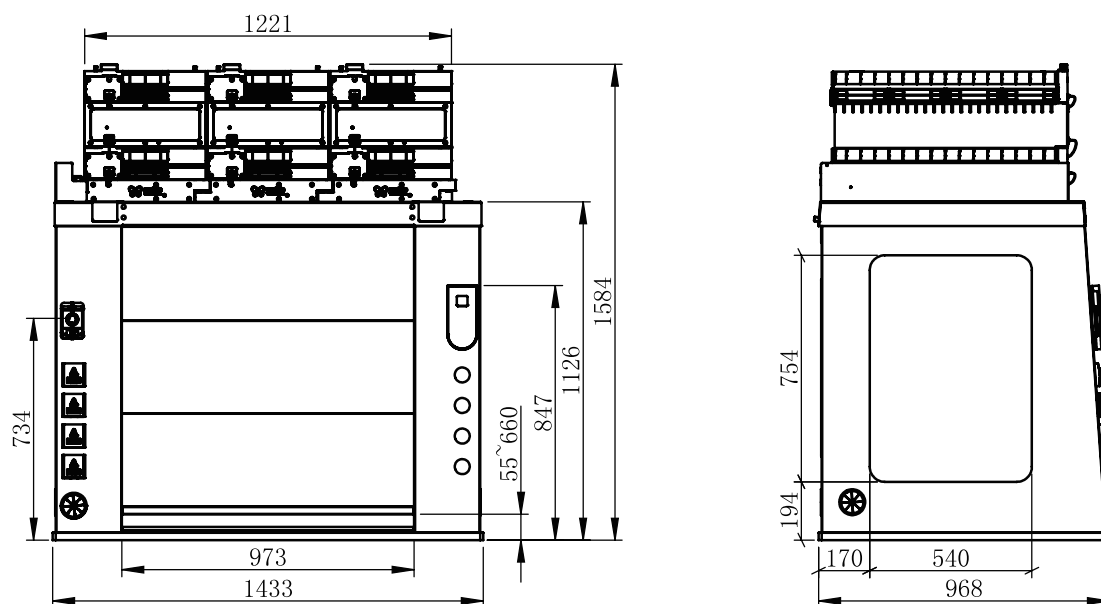
Product datasheet

GFH3 5300

Advanced filtration fume hood

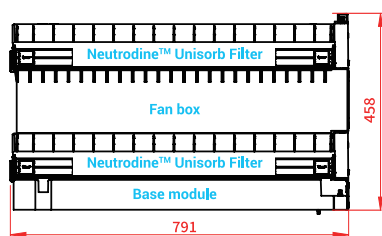


Dimension(mm)

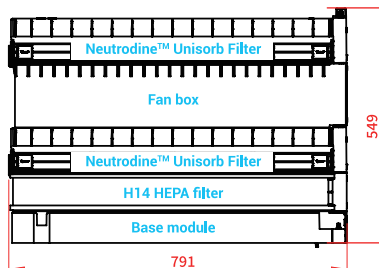


Filtration column

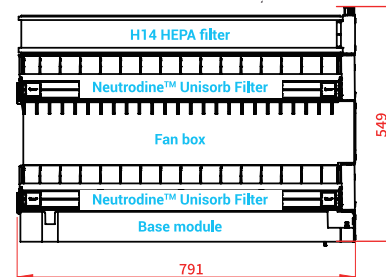
B For liquid chemicals



D For liquids and powders

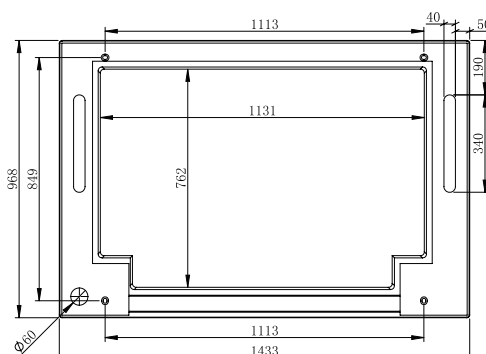
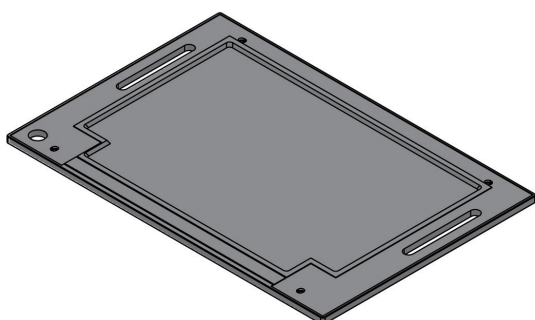


G For clean room



Please add 150mm between the last filter and the ceiling to allow a good air recirculation and to replace filters easily.

Work surfaces with built-in spill tray



Technical sheet

Dimension(mm)	External dimension: L 1433 * D 968 * H 1584~1675mm
Air treated volume	660 m³/h
Face velocity	0.4~0.6 m/s
Working sash height	0.5m/s face velocity at the sash height 37cm, maximum working height 66cm
Fan protection class	IP42
Voltage	100 - 240 VAC
Frequency	50 - 60 Hz
Power consumption	200 W
Maximum electricity	2.0 A
Noise level	≤ 67dbA
Particle filter	H14 high efficiency filter, filtration efficiency 99.995%(According to EN-1822-MPPS testing method)
Molecular Filter	Neutrodine-Unisorb filter, the concentration downstream the filter won't exceed 1% of the chemicals' TC-TWA (According to NFX15-211: 2009Standards)
Prefilter	S / A / K
Weight	220 kg
Air exchanged rate	620 times / hour
Retention capacity of the phenolic resin worktop	11 L

Structure

Metal parts	Made by galvanized steel, coated with epoxy resin which has a good resistance to acids and base
Front sash	Tempered glass
Side panel	Made by galvanized steel
Command box	ABS
Worktop	TRESPA® TOPLAB®PLUS Phenolic resin worktop

Standard accessories

Command module	1
Filtration column	3
Quantity of the main filter	B-Liquid : 3 G-Clean room: 3 D-Powders and acids: 3
Quantity of the safety filter	B-Liquid: 3 G-Clean room: 3 D-Powders and acids: 3
Quantity of H14 HEPA filter	B-Liquid: 0 G-Clean room: 3 D-Powders and acids: 3
Quantity of the prefilter	3-9
Numbers of the Fan	3
Temperature sensor	Detection coverage: -15°C ~ 120°C / Alarm threshold: 40°C and 60°C
Illumination	3 pcs LED Lamp, IP68-12W, ≥500lux
Electronic hardware system	ARM 9 mother board
Ethernet interface	WIFI / RJ45
Molecode S detection sensor	Semiconductor sensor
Laboratory pollution sensor	Semiconductor sensor
Function module	Electricity inlet from the left side, Gas/Liquid from the right side
Sockets	4 pcs, total power consumption ≤2.5KW, Voltage: 110 ~ 240V

Optional accessories

eGuard	Remote monitor software
G-Station	Fixed work bench
Molecode A(acids)	Electrochemical sensor
Ports for electricity equipment	standard 40x40
Pipeline port	Straight pipe or remote valve: diameter 22 or 42mm
Racks	Stainless steel 304 which diameter is 12.5mm

Standards

AFNORNFX15-211-2009: France - BS 7989-2001: England
- ANSI/ASHRAE 110-2016: USA - EN 1822: 2019 (HEPA H14 & ULPA U17) - CE certificate



About ERLAB

The ERLAB Research and Development Laboratory

Since 1968, **ERLAB** has been a specialist, inventor and world leader in **ductless, zero-emission filtering fume hoods for laboratories** to provide total safety in chemical handling.

1 ERLAB filtration

We provide technologies to protect laboratory staff from inhaling chemicals. This is made possible thanks to our **Research and Development (R&D) department**, which has continuously improved our filtration technology **for more than 50 years**. That's why, in 2009, we invented the **ERLAB ABOVE** label for tried and tested filtration technology.

2 The AFNOR NF X15-211: 2009 standard

ERLAB's filtration technology conforms to the **NF X15-211: 2009 standard**, the industry's most demanding standard for molecular filtration, developed by a committee of independent scientists and specialized manufacturers.

This text imposes performance criteria linked to:

- Filtration efficiency
- Containment efficiency
- Air face velocity
- Documentation: **chemical listing**

3 The ESP programme

A set of three services included with the purchase of each device designed to ensure your safety.



eValiQuest Risk analysis – Determination of protection needs – Determination of ergonomic needs



ValiPass Certified installation – Total safety for handling



ValiGuard Ongoing monitoring – Preventative and maintenance inspections – Device reconfiguration based on protection needs – Development of handling

4 Flex technology

The combination of molecular and particulate filtration technologies allows a single device to meet laboratories' protection needs. This innovation from ERLAB's R&D department offers unprecedented **flexibility, versatility and value**. A single device can be reconfigured over time and easily reassigned to other applications.

5 Smart technology

Smart technology is a **simple and innovative** means of communication that improves safety. This technology uses a light and sound signal to indicate the user's level of protection. The advantages of the technology are:

- 1 | **Light pulsation:** Real-time communication via **LED light pulses** intuitively alerts the user to the device's operating status.
- 2 | **Simplicity:** One-touch activation.
- 3 | **Detection system:** The exclusive detection system continuously monitors filtration performance.
- 4 | **Built-in monitoring:** This service provides direct access to the **status, settings and history** of your device.

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ecosystem