



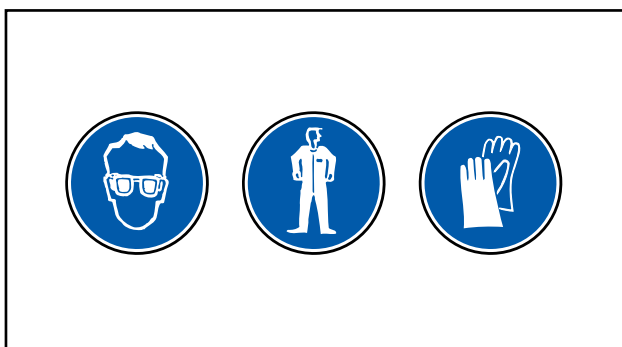
Filtration system for safety cabinet

V20 I



INSTALLATION MANUAL & USER MANUAL

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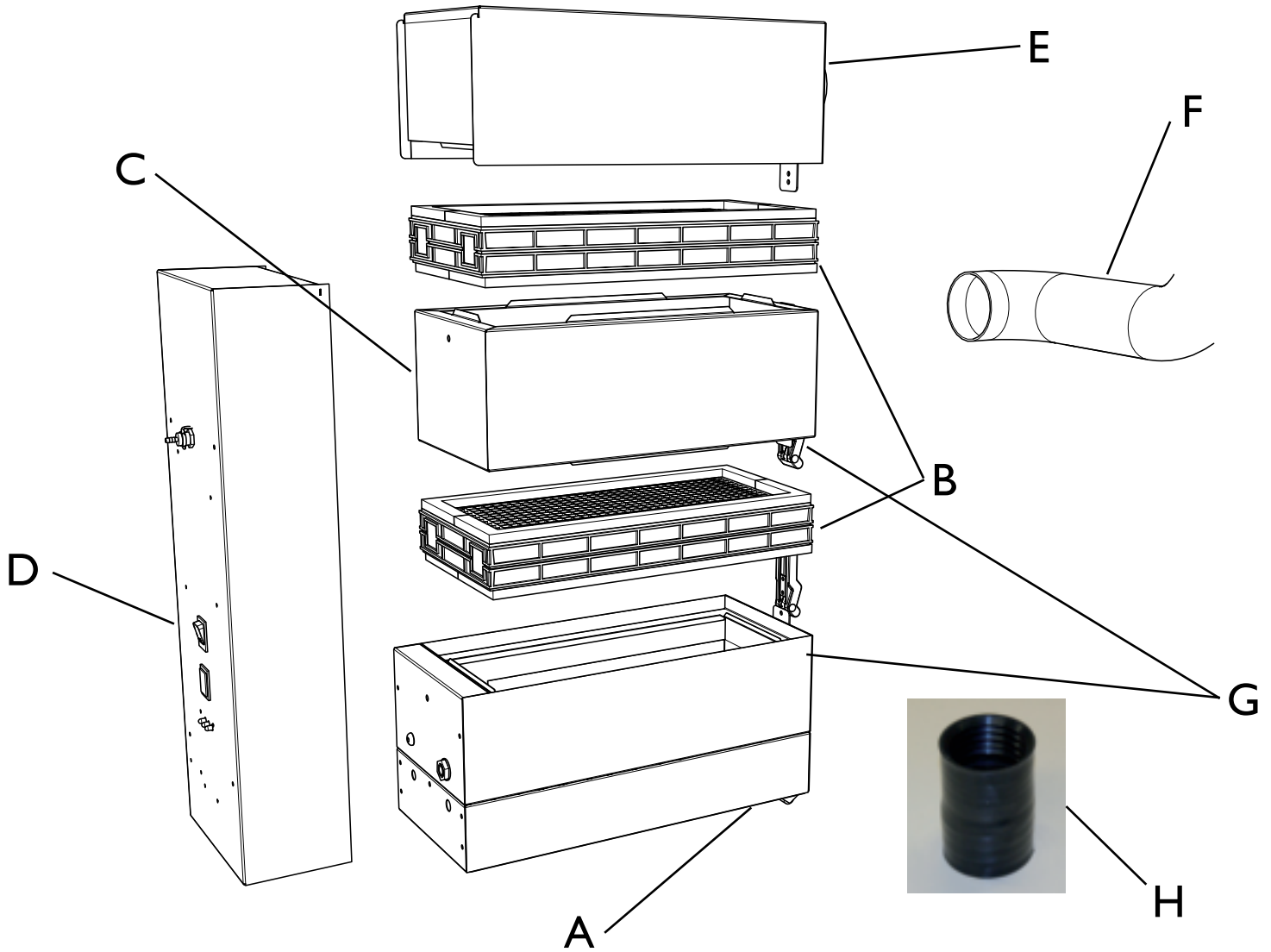
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Unit exploded view



A Fan module

B F1 Filter

C Compensator frame

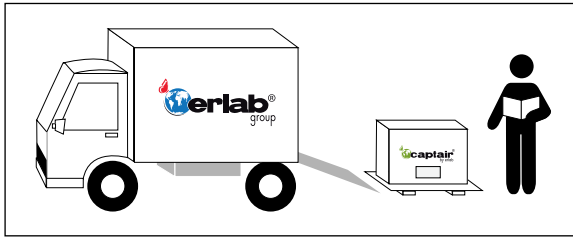
D Control display

E Aspiration module

F Flexible duct connection

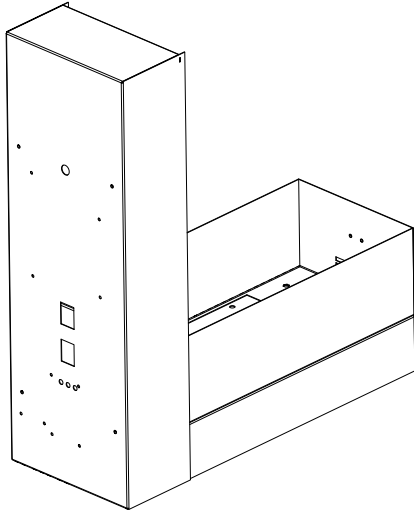
G Draw latches

H Connecting sleeve built into the duct

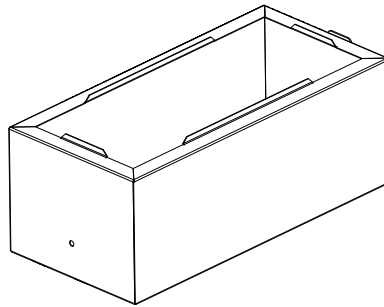


Tools required:
1 precision screwdriver

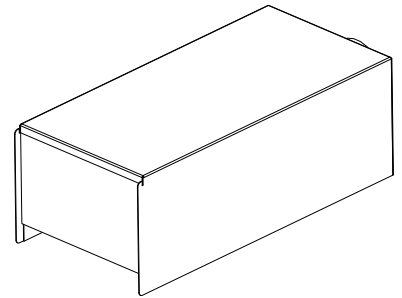
A **D** **G** x 1



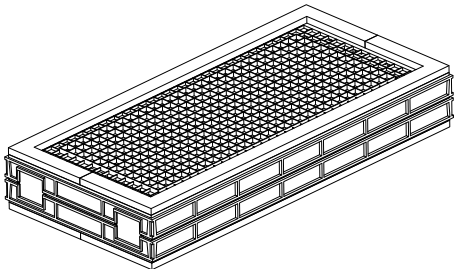
C **G** x 1



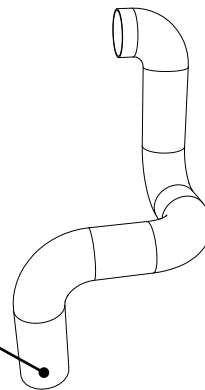
E x 1



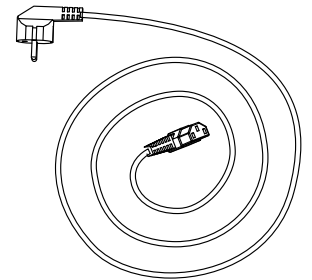
B x 2



F **H** x 1



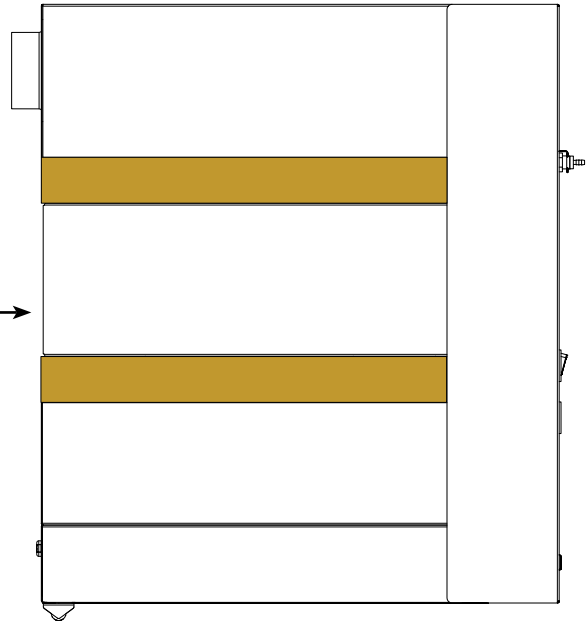
I x 1



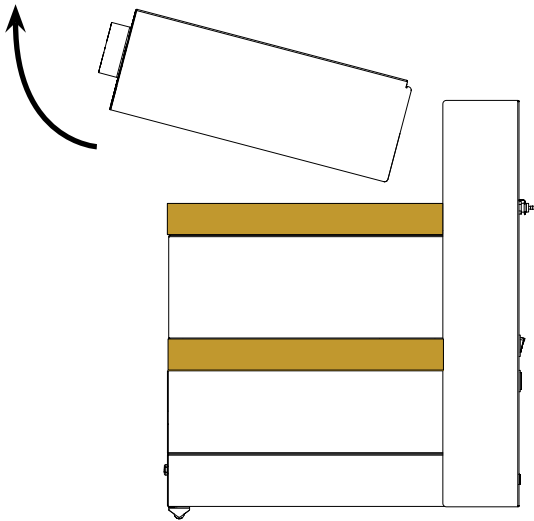
J x 2



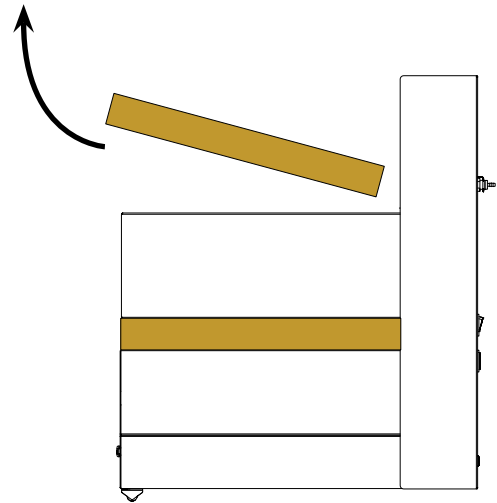
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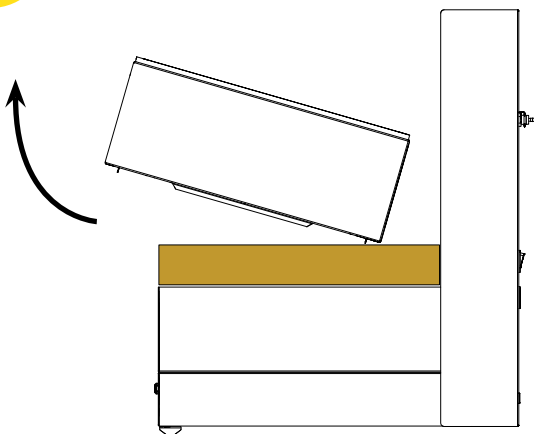
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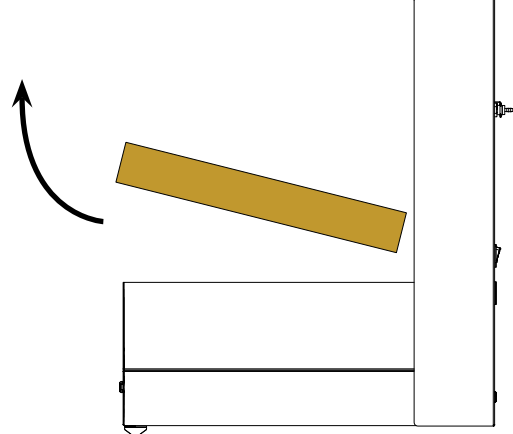
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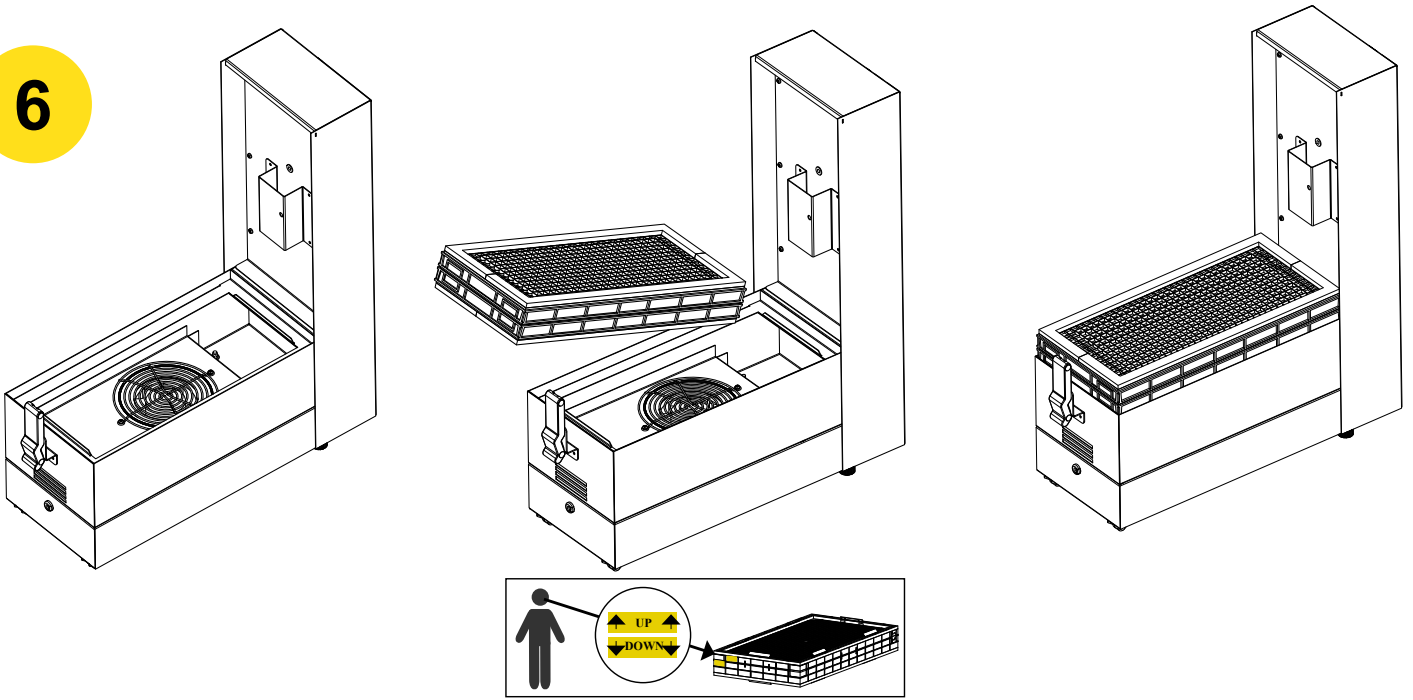
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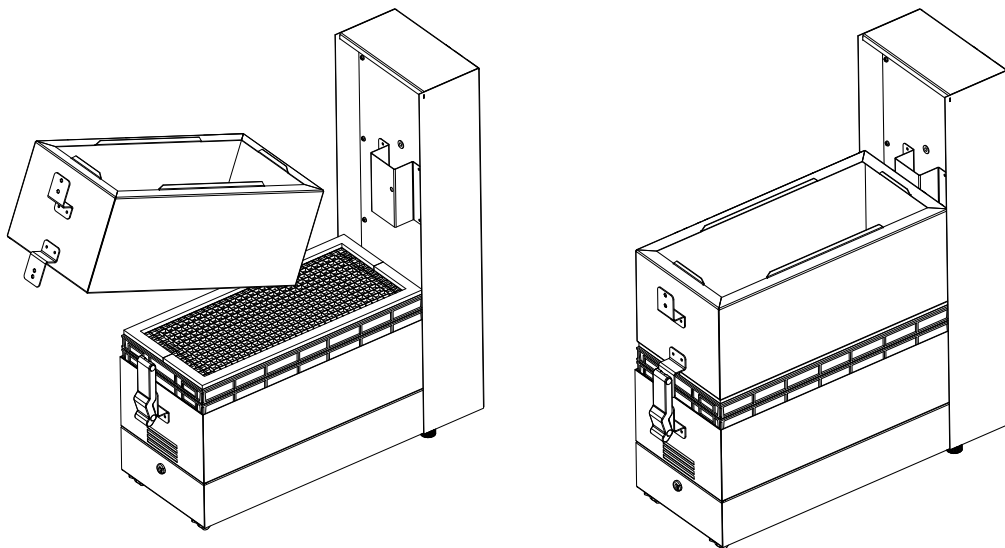
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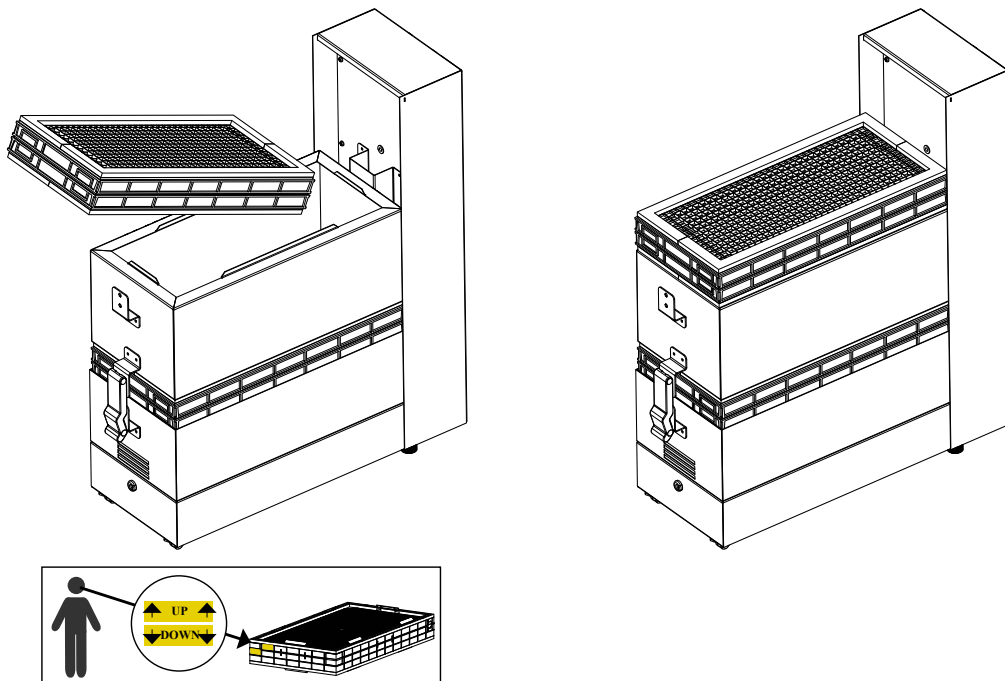
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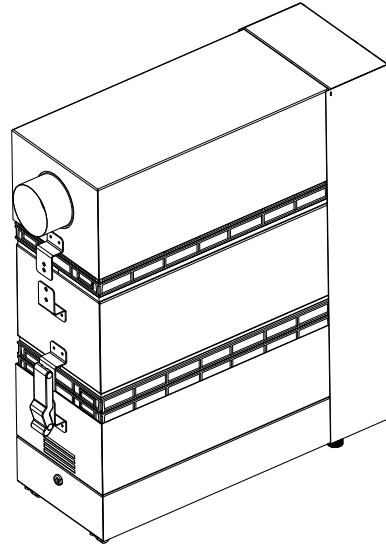
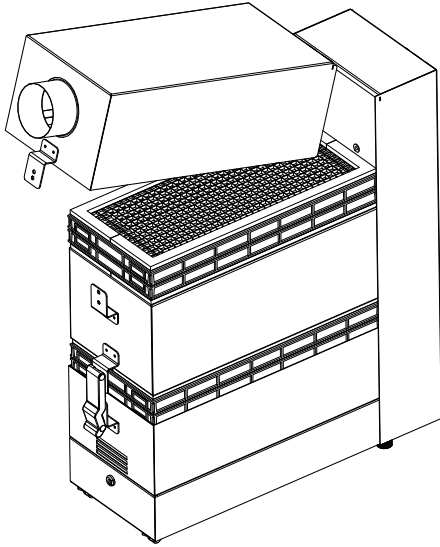
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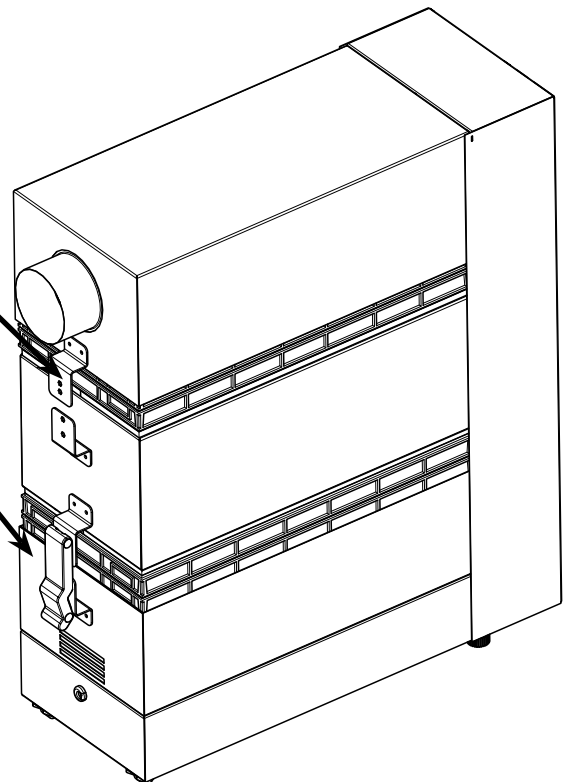
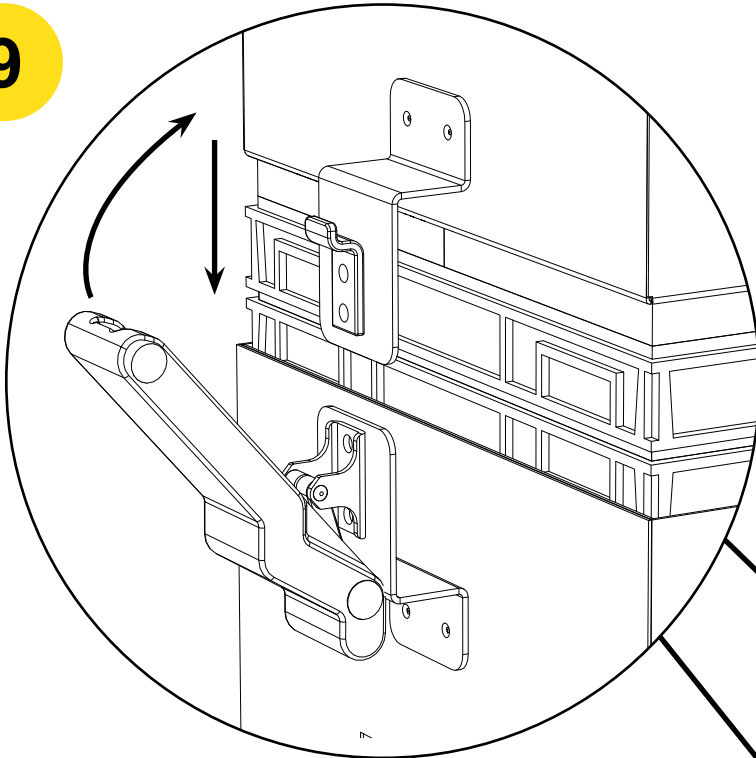
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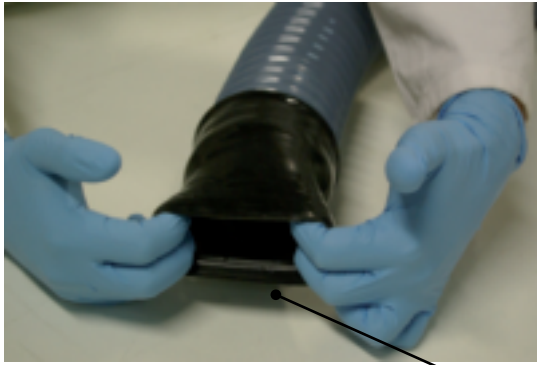
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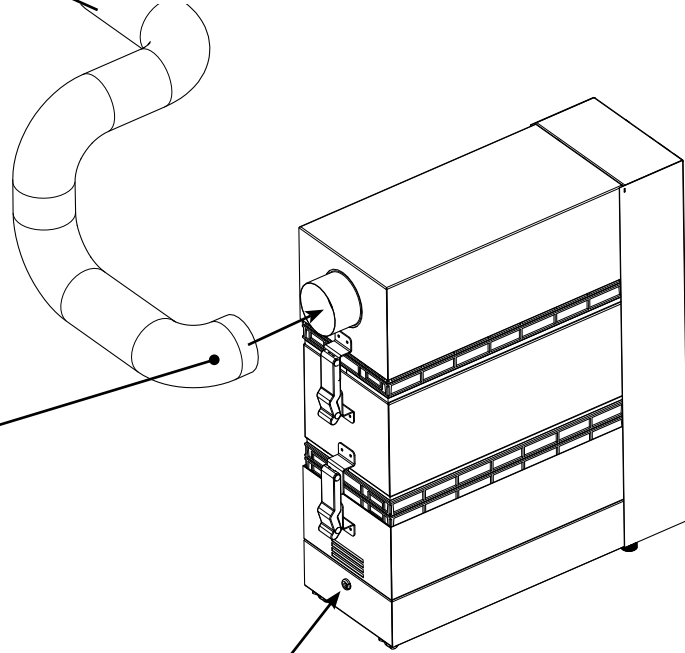
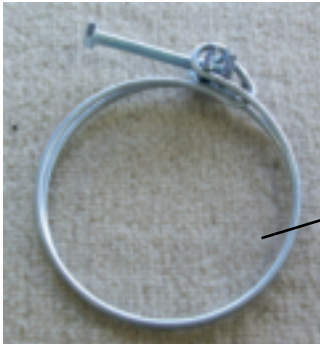
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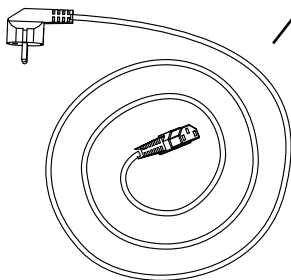


Connect the flexible sleeve to the air outlet of your safety cabinet



Install the clamp on the flexible duct connection.
Connect the sleeve to the box and then tighten the collar.

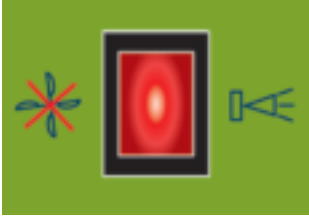
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**YOUR CHEMTRAP V20I
IS READY TO WORK**

Fan Failure* (version V02 and V04) setting

Fan failure must be set before Chemtrap V20I first usage

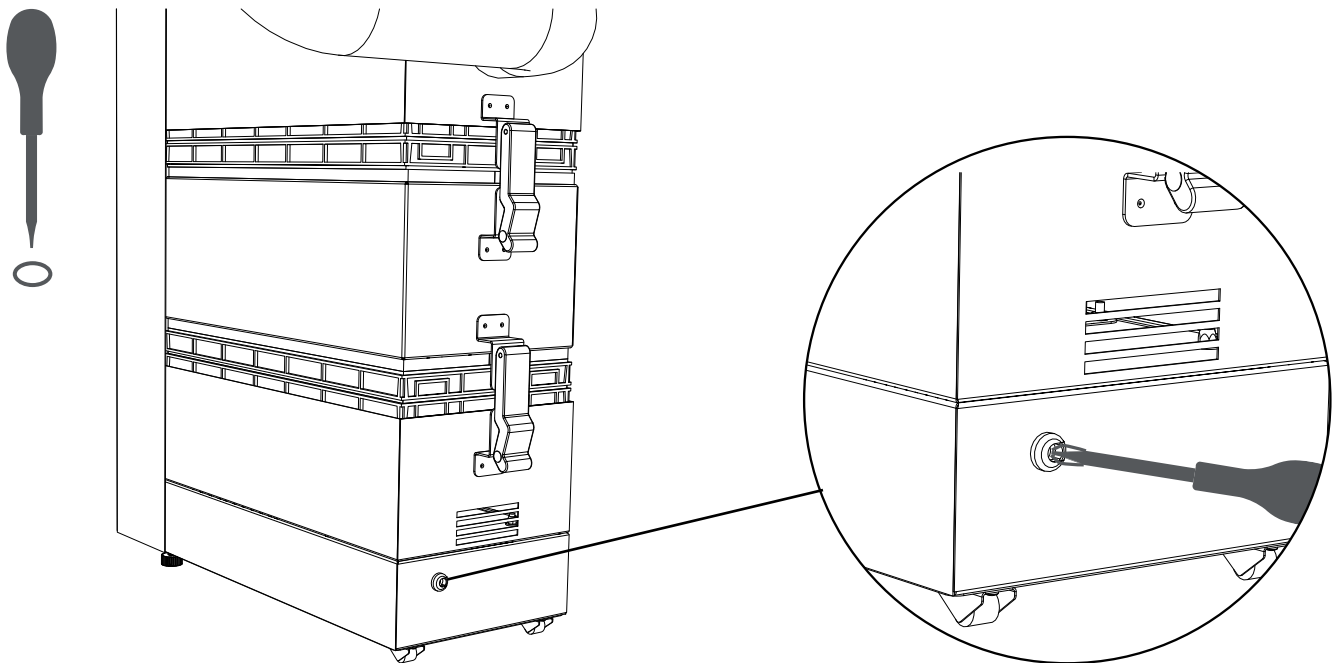


Fan Failure is an electronic alarm that indicates bad fan operation:

- because the fan is not running.
- because the fan has not reached its normal rotation speed (at the start of Chemtrap).

Fan Failure indicates the malfunction by an audible alarm, and by a red light in front.

* Fan Failure: Ventilation malfunction detector



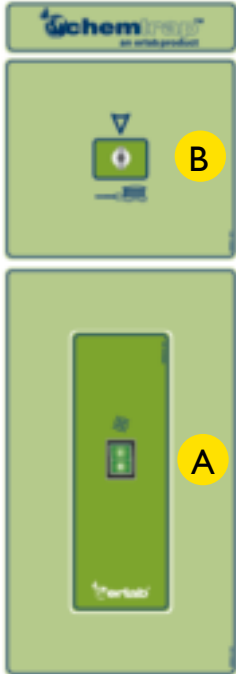
Turn the fan module on

Turn the screw counterclockwise until the alarm stops ringing, then stop the Chemtrap V20I

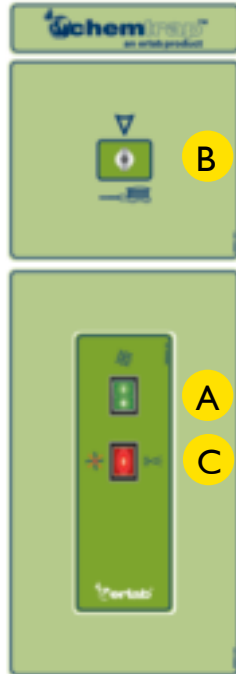
Turn the Chemtrap V20I on, the wait for a few seconds

- If the alarm goes off again, proceed to Fan Failure setting following instruction above
- If the alarm does not go off, go to the next step

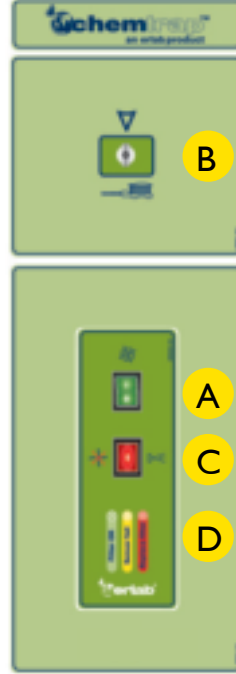
V01



V02



V03



V04



- A** main switch
- B** sampling port

- C** Fan Failure
- D** securifilter

Front sticker

manufacturer name — Liu shi jing Road Kunshan City
Jiangsu Province P.R.China
www.erlab.com

model/ Version — Model: Chemtrap V201 V04

serial number — S/N: 17646-11

Ref.: ZA135169

Designation: auxiliary equipment for air depollution

Manufacturing Date: 31/08/2011

230 Vac 50/60Hz 19 W

Type

CE mark

making date

power Frequency Electrical power

4-A Manual control

TESTS FREQUENCY WE RECOMMEND TO CARRY ON THIS TEST ON A MONTHLY BASES

To run a molecular filter manual saturation detection, you must have:

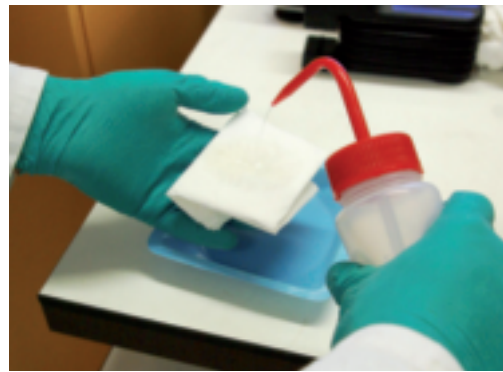
- A pump (not supplied)
- A silicone tube (supplied)
- 5 ml of acetone (not supplied)
- A piece of fabric (not supplied)

The appropriate colorimetric tube to detect acetone (not supplied)

The list of equipment not supplied by erlab[®] can be purchased from different manufacturers such as Gastec, Draeger, Kitagawa, RAE System or their authorized distributors.



Turn the Chemtrap V201 on



Wet the wrapped fabric with 5 ml of acetone then place it in a container



Place this container at the highest place into the cabinet



Break the colorimetric tube two ends



Connect the broken tube to the pump taking care to check that it is inserted in the right direction. The colorimetric tubes are marked.



Connect one end of the silicone tube to the sampling port located on the control panel



Connect the flexible silicone tube to the other end of the broken tube



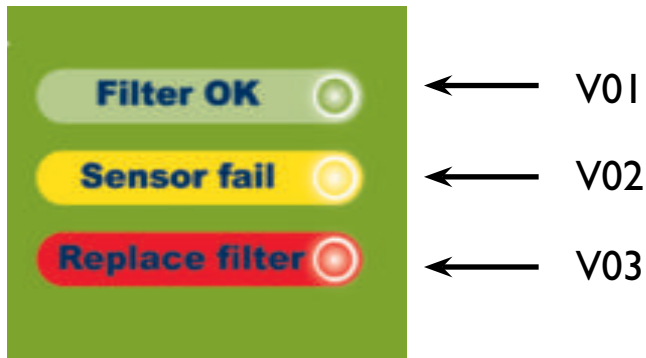
Take a sample of air by activating the pump. To find the number of strokes, refer to the instructions supplied with the tubes used.

Depending on the colorimetric tube reaction observed:

- If the value in ppm (parts per million) of the product to be detected is less than the acetone VLEP (average occupational exposure), the filter is not saturated.
- If this value is equal to or greater than the acetone VLEP, the filter is saturated.

**Users are exposed to chemical inhalation risk.
It is imperative to proceed with filter replacement.**

4-A Automatic detection (V03 and V04 versions)



The Securifilter turns on when starting the Chemtrap V201.

The green LED V01 flashes for one minute when the unit is turned on and then becomes fixed.

Sometimes the visual and audible alarm (red LED V03) is activated during a while when starting the Chemtrap V201.

It stops when the sensor is stabilized.

If a problem or defect in the electronic sensor is detected, the yellow led V02 stays on. In this case, please contact your supplier or Erlab customer service.

Detection principle

The SECURIFILTER uses a sensor adapted to detect many types of pollutants.

- 1) If the audible and visual alarm (red LED V03) is intermittent, you must consider replacing the filter.
- 2) The audible and visual alarm (red LED V03) is permanent, the filter is saturated.

**Users are exposed to chemical inhalation risk.
It is imperative to proceed to filter replacement.**

5-A Filters selection

Filter choice

1/Liquid chemicals storage*

4 types of molecular filters are offered, to choose according to chemicals stored into the cabinet

AS filter	Mainly for organic solvents
BE filter	Mainly for inorganic acids or acid and solvents
F filter	Mainly for formaldehyde (formol, formalin, paraformaldehyde)
K filter	Mainly for ammonia and amines

2/Powders storage*

HP filter	HEPA H14 particle filter
------------------	--------------------------

If storage of liquids and powders, must be stored in two different cabinets

Advised filter replacement frequency

Module ChemTrapTM H	Filter to replace once a year
Module ChemTrapTM V	Filter to replace every 12 to 18 months (according to usage, environment and cabinet packing)

NB: ChemTrapTM filtration modules are all fitted with a sampling probe allowing molecular filter saturation tests on a regular basis

ChemTrap filtration modules can be set with a automatic saturation detection sensor «Securifilter», which will start off a visual and audible alarm in case of molecular filter saturation by solvents

For all question regarding filter choice in case non mentioned above, ErLab laboratory specialists are at your disposal to advise you the solution dedicated to your usage

5-B - Filters replacement

To know filter replacement process steps, please refer to the setting section into this manual

Filtration column for under bench safety cabinets

V 201

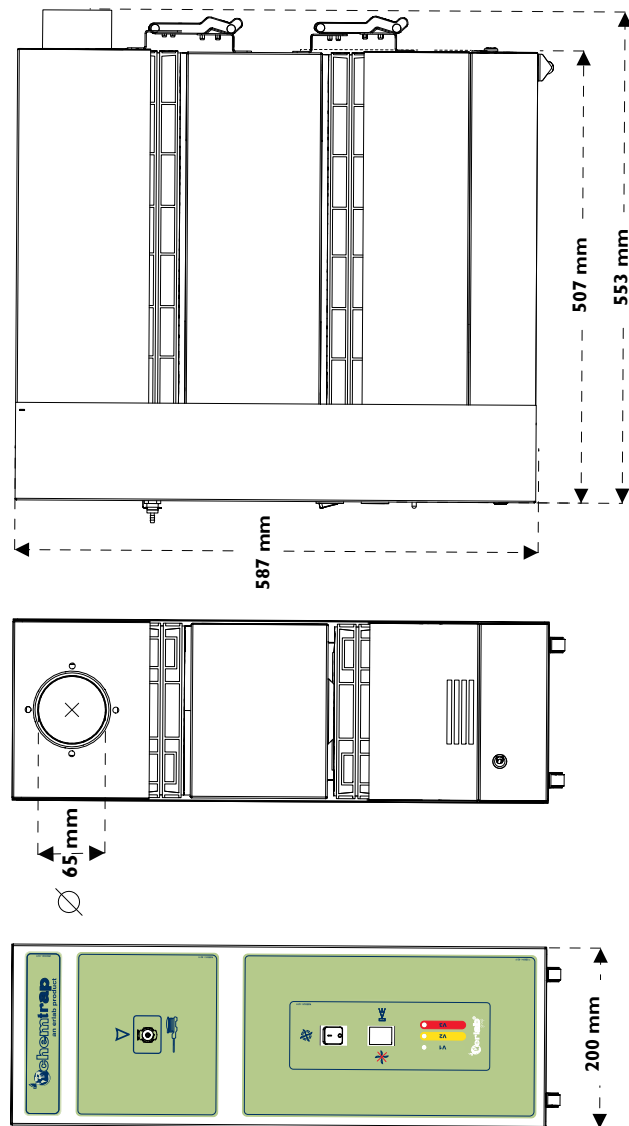


- Chemical vapors elimination by filtration
- Extracting connection not required
- Adaptable to a wide range of safety cabinets

- Laboratory environment purification 24h/24
- Standalone technology, installation fast and simple
- Filters replacement: every 12 months



Technical data



Characteristics

Number of filters	2
Number of fans	1
Air flow	> 50 m ³ /h
Voltage	according to country
Electric power	19 Watts
Absorbed intensity	0,1 amp.
Flexible duct connection	1 meter (∅ 57 mm)
Flexible connection flange	∅ 62 mm

Structure

Metallic parts	Anti-corrosion steel coated with 100% polyester
Filtration module	Injected polypropylene
Duct connection	PVC

Types of filters available

AS	For storage with organic vapors mainly
BE	For storage with organic vapors and acids mainly
HP	HEPA H14 for powders storing

Versions/ Equipment

01	Sampling probe
02	Sampling probe + Fan failure
03	Sampling probe + Fan failure + Securifilter
04	Sampling probe + Securifilter

Sampling probe
for filter saturation test

Fan Failure
Alarm used to monitor proper functioning of the ventilation system

Securifilter®
Electronic alarm to detect filter saturation by solvents



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