Captair 822 Smart
Ductless filtering chemical storage cabinets
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General

By choosing Captair Smart ductless filtration chemical storage cabinets you have chosen an efficient and responsible way to ensure safety.

Erlab’s 45 years of expertise in the field of laboratory fume hoods provide unparalleled filtration quality to ensure your users are properly protected when handling chemicals in the laboratory. The new Captair Smart range uses an innovative and straightforward mode of communication called: Smart technology. This powerful interface uses light to intuitively and effortlessly communicate with users and leave them free to focus all their attention on the main task: your work.

Your Captair Smart is the ideal organising cabinet to accommodate respiratory protection of users and environmental protection with a unique filtered air recycling system in the laboratory. This is made possible by the use of very highly-effective molecular and HEPA H14 filters which trap molecules and toxic particles. This filtering process makes it possible to blow purified air out of the filter, free from chemical pollution. The Erlab exclusive filtration technology can be adapted according to the stored chemicals.

The system’s connectivity allows for real-time safety alerts and individual device usage reports to be sent via the e-Guard app.

Safety notices

The effectiveness of your device is directly dependent upon it being used correctly and monitored by its users. Your laboratory may also benefit from ergonomic, economic and ecological advantages provided by the Captair Smart chemical storage cabinet throughout its life cycle.

The E.S.P. program (Erlab Safety Program) was set up to guarantee your safety. We would remind you that it is important to have the safety parameters validated before using the device for the first time and whenever it is used for a different application.

The equipment provided is not intended to be used in an explosive atmosphere.

The filters delivered with this device must be removed from their packaging and positioned correctly; they must also be suitable for the type of chemicals being handled in order to guarantee user safety.

Erlab recommends that filter breakthrough tests are regularly carried out.

New filters must be stored in their packaging, kept in a dry location and laid flat. (see recommendations for storing and using the filters).

Erlab recommends keeping a logbook which is specific to the device and shows the chemical agents handled, how often they are used and the maintenance operations carried out on it.
Organisation of your storage

Prior to handling or storing a chemical product, it is mandatory to consult your label; this label provides information on the dangerousness of chemical substances as well as on the basic principles of protection during handling and storage.

This information includes pictograms, some special instructions are reproduced below:

**EXPLOSIVE**
Contact with an energy source (flame) or an incompatible product may cause an explosion.
Example: Ammonium Nitrate (responsible for the nitrogen fertilizer explosion in Toulouse in 2001)

**COMBUSTIVE**
Substance which will cause a fire on contact with a combustible product
Example: Peroxyde d’hydrogène

**CORROSIVE**
Product which may attack tissues or certain materials (glass, metal, etc.)
Example: Acids (Hydrochloric Acid) or Concentrated Bases (Soda)

**SENSITIZING**
Substance dangerous for health
Example: Formaldehyde, Benzène

**DANGEROUS FOR THE ENVIRONMENT**
Substance which when it is dispersed into the environment may cause damage to the fauna or flora.
Example: Hydrocarbons

**TOXIC / IRRITANT**
Substance which may cause a health risk.
Example: Citric Acid

**GAS BOTTLE UNDER PRESSURE**
Product which can cause an explosion or burns
Example: Hydrogen

**TOXIC**
Substance presenting serious health risks (Carcinogenic, Mutagenic or Toxic for reproduction)
Example: HCN Acide cyanhydrique

**FLAMMABLE**
Contact with an energy source (flame) or an incompatible product (combustive) may cause a fire.
Example: Methanol
Before inserting any new product into the cabinet, the user must check its chemical compatibility with the products it already contains. For example, in the category of corrosive products, it is necessary to distinguish between Acids and Bases. In every case, Acids and Bases must be separated: the reaction of a strong acid with a strong base is highly exothermic (releases heat), which may cause serious accidents (projection).

We give a non-exhaustive list below of some examples of known chemical incompatibilities:

- Do not store acids and bases together.
- Do not store oxidants and reductants together.
- Do not store combustive products and flammable products together.
- Do not store corrosive products and flammable products together.

In a cabinet, glass bottles containing liquids should be stored as low as possible so as to limit the height of a spill if they are accidentally turned over.

The storage cabinets are intended to contain small quantities of products necessary for daily work.

Inventories must be stored in stock rooms provided for this purpose outside of the laboratory.

**IMPORTANT:**

Captair Smart cabinets are not capable of resisting consequences of a fire in the laboratory.

Therefore, any storage of flammable products in this type of cabinet is under the sole responsibility of the user.

The Captair Smart cabinet must be used indoors, at a vertical position on its carrying feet.

Use or storage temperature: 15 to 30° C

Maximum rate of humidity: 75%

Storage: noxious and odorous chemical products.
Get up to 10 years warranty on your connected Erlab unit

Register your product online: the registration of the product will automatically give you one extra year of warranty (in addition to the warranty mentioned in the Erlab’ general terms and conditions of sale).

Connect your unit: Once the device is connected to the Internet and configured to exchange usage data, the warranty is extended for up to 10 years. Warranty will be successively renewed at each filters replacement and for the life time indicated on the Valipass® and/or or at the end of filter usage time.

In order to benefit from Erlab extension of warranty offer, the following conditions shall be respected:

Warranty applicability is subject to the respect of the Erlab’ general terms and conditions of sale and following requirements:

- The registration and/or the connection of the product shall be performed within the twelve months from the purchase date;
- Filters replacement must be performed following Valiquest® service recommendations or at the end of filter usage time; The filter’s serial number, used as an identification key, validates this condition, regardless of your device’s supplier (and/or the replacement filter’s supplier for the following years).
- The device’s replacement filters must be manufactured by Erlab, as must all other spare parts.

Consumables such as, without limitation, saturation sensors and electrical components, are not covered under warranty.
Start-up

Having carefully followed the steps described in the installation guide, your Captair Smart chemical storage cabinets is now ready to use.

The power switch is located at the back of the control panel.

LED light system should come on.

A filtered storage cabinet works 24/7. We only recommend to switch off the unit for maintenance

We also recommend verifying the operating parameters before each new use.

Filter breakthrough sensor (Molecode option):
Default settings when the sensor has not been set in our factory:

- Solvents (S type): medium
- Acids (A type): medium
- Formaldehyde (F type): medium

To modify settings, please access the administrator interface.
Description of the control module

1 - Keycode to indicate which alarm is active
2 - Smart-Light that pulses when in alarm

The fixed light bar shows the optimal level of protection the operator is afforded.

The hood communicates its operational state in real time through a series of sound and light pulses.

Alarms description

Note:
When using the Mute key to silence the alarm, please note the alarm can be triggered again if the event condition has not been fixed. Resetting alarms via the Mute key will consequently modify usage settings. Please access the administrator interface to precisely check user settings.

<table>
<thead>
<tr>
<th>Alarm type</th>
<th>Light signal</th>
<th>Events</th>
<th>Details</th>
<th>Silence the alarm</th>
<th>Reset the alarm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doors openning</td>
<td>2 beeps + 5 seconds apart</td>
<td>Pulses</td>
<td>Doors ajar</td>
<td>Doors opened</td>
<td></td>
</tr>
<tr>
<td>Alarm type</td>
<td>Light signal</td>
<td>Events</td>
<td>Details</td>
<td>Silence the alarm</td>
<td>Reset the alarm</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>--------------</td>
<td>---------------------------------</td>
<td>--------------------------------------------------------------</td>
<td>-------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td><strong>Filtration</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>![Filter icon]</td>
<td></td>
<td>3 beeps + 5 seconds apart</td>
<td>Pulses</td>
<td>Press Mute key</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Filter breakthrough (Molecode S/A/F option)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The Molecule detection value is &gt; the sensitivity setting for a period of 40s.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Replace filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The filter(s) has/have reached the end of their service life/lives.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note: filter has to be replaced.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Please get in touch with Erlab or your usual maintenance contact.</td>
<td></td>
</tr>
<tr>
<td><strong>Fan</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>![Fan icon]</td>
<td></td>
<td>4 beeps + 5 seconds apart</td>
<td>Pulses</td>
<td>Press Mute key</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fan fault</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The rotation speed (RPM) is +/- 10% of the fan setpoint.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>![Fan icon]</td>
<td></td>
<td></td>
<td>Fan unserviceable</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The rotation speed (RPM) is &lt; 700 RPM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filter breakthrough sensor replacement (Molecode)</td>
<td>5 beeps + 5 seconds apart</td>
<td>Pulses</td>
<td>Filter breakthrough sensor replacement (Molecode S/A/F option)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The sensor has reached the end of its service life.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Please get in touch with Erlab or your usual maintenance contact.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Reset network settings</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forgot network settings?</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Please check the general switch of the unit is turned ON,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Switch OFF the key 1,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Press the Mute key for 5 seconds,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- After 3 beeps, network settings are reset,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Reboot the unit: turn OFF/ON the general switch of the unit on the back of the control panel,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- The network default IP adress is : 192.168.0.200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Welcome to a safer connected world

The connectivity of Captair Smart fume hoods allows you to monitor all your safety settings remotely. After registering your product online, download eGuard App and:

- Stay in touch wherever you are
- Receive safety alerts
- Access your statistics usage
- Make the most of an exclusive warranty program

Connectivity principle

Ecosystem designed for simpler use and safer protection
## 3 Versions

<table>
<thead>
<tr>
<th>Conditions of use</th>
<th>Direct connection on PC with data cable (RJ45)</th>
<th>Web connection (via 3G/4G)</th>
<th>Web and/or local connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware requirements</td>
<td>1 PC + 1 cable</td>
<td>1 Apple or Android Smartphone</td>
<td>1 PC connected to Internet or local network</td>
</tr>
<tr>
<td>Parameters</td>
<td>Monitoring + Controlling</td>
<td>Monitoring</td>
<td>Monitoring + Controlling</td>
</tr>
<tr>
<td>Data access</td>
<td>One unit</td>
<td>Multiple units</td>
<td>Multiple units</td>
</tr>
<tr>
<td>Historical data access</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Historical data download</td>
<td>✔️</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alerts</td>
<td></td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Multiple units monitoring</td>
<td></td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Multiple user accounts</td>
<td></td>
<td></td>
<td>✔️</td>
</tr>
<tr>
<td>Automatized status report</td>
<td></td>
<td>(except if local connection)</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Download available on [www.erlab.com](http://www.erlab.com)
Options of connection

Embedded service

Mobile or computer app

Accessing the Administrator interface

To monitor the parameters and modify the settings of the unit

In order to connect:

- Use a computer equipped with an Ethernet port (to plug the RJ45 cable)
- WIFI of the computer must be switched off
- Web browser (Internet Explorer, Edge, Chrome, Mozilla Firefox, Safari, …) must be installed on the computer

N.B: RJ45 cable used to plug the unit to the computer is provided.

1 Direct connection on computer

- Take RJ45 cable (black) already connected on the unit and rolled at the back of the control panel.
Open your web browser, type the following IP address 192.168.0.200 into the address bar and validate.

You are connected to the embedded software. You enter the « Status » page and you can have access to the « Settings » using the following credentials:
Login: erlab / Password: smart

Please go to page 17

Page is not accessible

Modify computer network parameters

Network parameters

Troubleshoot problems
Open Network and Sharing Center
2. Access to the Network and sharing center

Left click to access properties

3. Access to the network connection

N.B: This confirms your WIFI is disconnected!
Enter compatible network parameters as indicated below
Write down your existing parameters before changing them in order to be able to set your initial parameters after the operation!

Enter the following parameters:

- IP address: 192.168.0.100
- Subnet mask: 255.255.255.0
- Default gateway:

Validate settings upon exit

Open your web browser again, type again the following IP address 192.168.0.200 and validate

- OK: You are connected to the embedded software
  You enter the « Status » page and you can have access to the « Settings » using the following credentials:
  Login: erlab / Password: smart
Administrator Interface

Status page details

1. Choose active interface page
2. Device ID: Model
3. Device ID: serial number, MAC address, device status
4. Locate me: digit the button, the light will blink 3 times
5. Molecode Option Gauge: indicates the saturation level of the main carbon filter(s)
6. Fan Gauge: indicates the fan status
7. Device use time since fan was last started
8. Device alarm statuses (see alarm triggering conditions)
9. Volume setting
10. Embedded service version
11. Choose language
Access to the settings is protected by the following credentials:

User name: erlab
Password: smart
## Settings page details

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>Device time and date settings</td>
</tr>
</tbody>
</table>
| **2** | Device network settings  
Mode: Selected IP protocol  
Hostname: Device name on network  
IP: IP address of the device  
MASK: network mask  
GW: Network gateway  
**Modify network settings:**  
Default mode: DHCP  
Each unit is identified with its hostname: ER-UNIT-S/N  
Hostname example for a Captair 822 Smart, S/N: 25698  
Hostname will be: ER-822-25698  
This hostname is displayed on the IP Address label located on the back of the control panel  
If the unit is not connected to a DHCP server, the unit will automatically switch to its default IP address: 192.168.0.200 |
| **3** | Active/Unactive the exchange of data  
Allow to send out data from the device to the eGuard server for:  
- remote monitoring via eGuard App (mobile & PC)  
- usage reports reception |
| **4** | Device fan setpoint settings |
| **5** | Door alarm |
| **6** | Air quality sensor  
Sensor type indication (VOCs: volatile organic compounds/ A: Acids / F: Formaldehyde)  
Sensor sensitivity settings:  
VOCs sensor (5 settings): High sensitivity, Medium/High Sensitivity, Medium Sensitivity, Medium/Low Sensitivity, Low Sensitivity  
A and F sensors (3 settings): High sensitivity, Medium Sensitivity, Low Sensitivity  
Sensor replacement  
Enter replacement sensor date, display the next sensor replacement date |
| **7** | Filter replacement date:  
Indicates the filter type (AS: organics vapors / BE+: Acids, inorganics, organics, and solvents vapors / K: Ammonia vapors / F: Formaldehyde vapors / HP: powders)  
For units equipped with carbon and HEPA filters, please use the carbon filter indication  
Last replacement:  
Counter showing the number of days the filter(s) can be used relative to its/their service life expiry date |
| **8** | Confirm settings key (please validate each setting) |
## Log page details

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Displays the device’s events log</td>
</tr>
<tr>
<td>2</td>
<td>Used for downloading the log in .csv format</td>
</tr>
</tbody>
</table>
Fan setpoints

<table>
<thead>
<tr>
<th>Unit / Type of filter</th>
<th>Carbon</th>
<th>HEPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>822</td>
<td>Open doors : 2300 RPM / Closed doors : 1300 RPM</td>
<td></td>
</tr>
</tbody>
</table>

Replacing the filters

Each molecular filter is labelled as follows

Please observe these markings.

The table below summarises the different types of carbon filters that Erlab® offers along with their fields of application.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type AS</td>
<td>For organic vapors</td>
</tr>
<tr>
<td>Type BE</td>
<td>For acid vapors (only available for 832)</td>
</tr>
<tr>
<td>Type BE +*</td>
<td>Multi-application for acid and organic vapors</td>
</tr>
<tr>
<td>Type K</td>
<td>For ammonia vapors</td>
</tr>
<tr>
<td>Type F</td>
<td>For formaldehyde vapors</td>
</tr>
<tr>
<td>HEPA H14</td>
<td>For powders</td>
</tr>
<tr>
<td>ULPA*</td>
<td>For powders</td>
</tr>
</tbody>
</table>
Replacing the HEPA H14 / ULPA filters

Pre-requisites

- The operator in charge of the filter replacement must be informed by users about the complete list of stored chemicals to allow to select its PPE
- The laboratory is empty when the operation is carried out
- The laboratory is ventilated by mechanical or natural means while the operation is carried out

Minimum protective equipment

- One-piece overall + overshoes + bouffant cap
- Laboratory gloves (latex or nitrile)
- Protective glasses
- Breathing mask with particle filter (P3)

This procedure is applicable to HEPA/ULPA filters located at the bottom of the filtration columns and designed to trap powders handled.

Strict chronological order to follow:

1- Switch on the device fan
2- Carefully spray the bottom surface of the HEPA/ULPA filter (paint with NON FLAMMABLE propellant), to be done inside the enclosure
3- Allow at least 5 minutes with the fan running for the spray to dry
4- Shut down and unplug the device and disconnect the fan module power supply cable and the sampling tubes from the sampling area (if installed)
5- Carefully remove the molecular filter(s) (if present) and the fan module
6- Carefully unwrap the new HEPA/ULPA filter
   Keep the plastic film and cardboard box so that you can use it later to pack up the used filter
   Lay out the film on a flat surface in the immediate vicinity of the operation so that it is at the ready
7- Carefully remove the used HEPA/ULPA filter and immediately place it contaminated-side down onto the plastic film
8- Clean the filter housing
9- Package up the used filter + contaminated equipment
   Seal the plastic film tightly
10- Place the sealed package in the box the new carbon filter came in, then seal it using adhesive tape

Have the filter disposed of via a suitable disposal process in accordance with the applicable regulations.

To find out more, please contact your usual advisor.

11- Fit the new HEPA/ULPA filter, main molecular filter (if present) and the fan module, followed by the backup molecular filter (if present). Make sure that all the column components.
12- Reconnect the device’s various cables and hoses, switch the device back on.
Filter Replacement Procedure

For these operations, we strongly recommend that the user or maintenance technician wear the necessary safety equipment, including: safety glasses, lab coat and gloves.

- Remove screws from the control panel
- Remove ceiling and disconnect connectors
- Disconnect the power supply to the fan hood
- Remove the fan
- Install the new filter
Install the fan
Reconnect the power supply to the fan hood

Plug connectors
Install the ceiling
Recommendations for storing and using the filters

New filter shelf life and storage conditions:
New activated carbon molecular filters must be stored flat in their original packaging at a temperature of between +10°C / 50° F and +50°C / 120° F and a humidity level < 85% RH.

If these conditions are adhered to, the maximum time a filter can be stored before use depends on the type of carbon used:

<table>
<thead>
<tr>
<th>Carbon Type</th>
<th>Maximum Shelf Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS type</td>
<td>2 years from the date of delivery</td>
</tr>
<tr>
<td>BE+ type</td>
<td>2 years from the date of delivery</td>
</tr>
<tr>
<td>BE type</td>
<td>1 year from the date of delivery</td>
</tr>
<tr>
<td>F type</td>
<td>1 year from the date of delivery</td>
</tr>
<tr>
<td>K type</td>
<td>1 year from the date of delivery</td>
</tr>
</tbody>
</table>

If the maximum shelf life is reached, we recommend to not install filters.

- HEPA H14 and/or ULPA filters must be stored upright and kept dry; there is no limit to the time they can be stored.

Predicted service life of a filter once put into use:
The service life of a molecular filter depends on des rangements dans l’armoire, as well as the conditions of the environment in which it is used.

We recommend replacing the filter annually (if used 24/7).

Failing that and/or in the absence of information regarding device usage:
ERLAB is unable to provide any guidance as to the predicted service life of the filter(s).

In such cases, we strongly recommend:
- That the molecular filters are replaced at least every 12 months and that a regular filter saturation checking protocol is put in place (please contact us for individual advice on this subject)
- That the HEPA or ULPA particulate filters are replaced at least every 36 months
Replacement frequency of filtration breakthrough sensor, Molecode option

Molecular filters saturation detection alarm – Molecode (S: solvents) or (A: acids) or (F: formaldehyde) - fitted as an integrated option in your unit, work using semi-conductor or electrochemical sensor that must be changed every:

5 years for the Molecode S  
2 years for Molecode A and F

After this period, Erlab cannot guarantee performances stability nor detection sensitivity.

Equipment replacement requires the intervention of a qualified engineer, able to replace internal components and perform system new configuration. The change requires less than one hour.

Erlab Maintenance department and accredited partners can provide this service. (service not available in all countries)

For further information, please get in touch with your contact person or Erlab dealer/distributor or visit our website

Shelves: maximum permissible mass

<table>
<thead>
<tr>
<th>Plastic Shelves</th>
<th>Basket for pull out doors</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 kg</td>
<td>15 kg</td>
</tr>
<tr>
<td>33 lbs</td>
<td>33 lbs</td>
</tr>
</tbody>
</table>
Cleaning and maintenance

- **Mechanical item checks**

  **Hinges:**
  Hinges must be correctly attached and not too tight; they must allow cabinet doors to be opened instantaneously with no effort.

  **Acrylic Parts:**
  These parts must be clean; white streaks or spatters indicate rather heavy use of acid (hydrochloric acid) or products handled at a high temperature. Ensuring the transparency of the walls is a part of regular maintenance for the enclosure.

**CLEANING THE ENCLOSURE**

Cleaning the dividers is mandatory and must be done regularly. It may be done in several ways:

- With soapy water followed by rinsing with clear water and drying with a soft; non-abrasive; absorbent paper towel.
- Or with a commercial PH neutral neutralizing product followed by drying with a soft; non-abrasive; absorbent paper towel.
- Or with a commercial glass cleaning product

**Coated Metallic Parts:**

- They must be inspected and free from any traces of corrosion.
- Check that no liquid stagnates in the shelves with a retention tank.
- Clean retention tanks if necessary
About Erlab

We provide safety, we protect your health
Erlab invented the ductless fume hood in 1968. With more than 45 years of experience in the field of chemical filtration and protection of laboratory personnel; we know the formula for safety. With Erlab, you will never have to wonder or worry if our products are safe. We build each one of the following 7 ingredients into our products, and without all of them, your health and safety will be compromised.

1. Erlab R&D Laboratory
The engineers and chemists in our state-of-the-art R&D laboratory understand molecular filtration. We are committed to designing products that are safe and of the highest quality, strive to improve our products, and continuously develop new products that provide greater protection in the laboratory.

2. Strict Safety Standards
We hold ourselves to the highest standard and adhere to the strict AFNOR NF X 15-211: 2009 filtration safety standard as endorsed by ANSI Z9.5-2012.

3. A Published Chemical Listing
It all begins here. Without this listing, we are not compliant with AFNOR NFX 15-211. Our in-house laboratory tests, as well as independent testing to verify the retention capacity of over 700 chemicals for our filters.

4. Independent Testing
Erlab filters have been independently tested multiple times at various concentrations guaranteeing that our safety solutions all adhere to the strict performance criteria of the AFNOR NF X 15-211:2009 standard assuring that the emission concentration at the filter exhaust will always be lower than 1% of the TLV.

5. Application Questionnaire (Valiquest)
Our laboratory specialists will recommend the appropriate filtration fume hood, type of filter, and personalized advice.

6. Certificate of Validation for the chemicals used in the hood
A certified PhD chemist issues a Certificate of Validation with a list of the chemicals approved for use in the hood.

7. Our Safety Program
We back up our products 100%. This program includes your specialized chemical evaluation, validation of your hood upon installation, and a filtration safety specialist at your service to ensure that your hood is operating to its full potential.