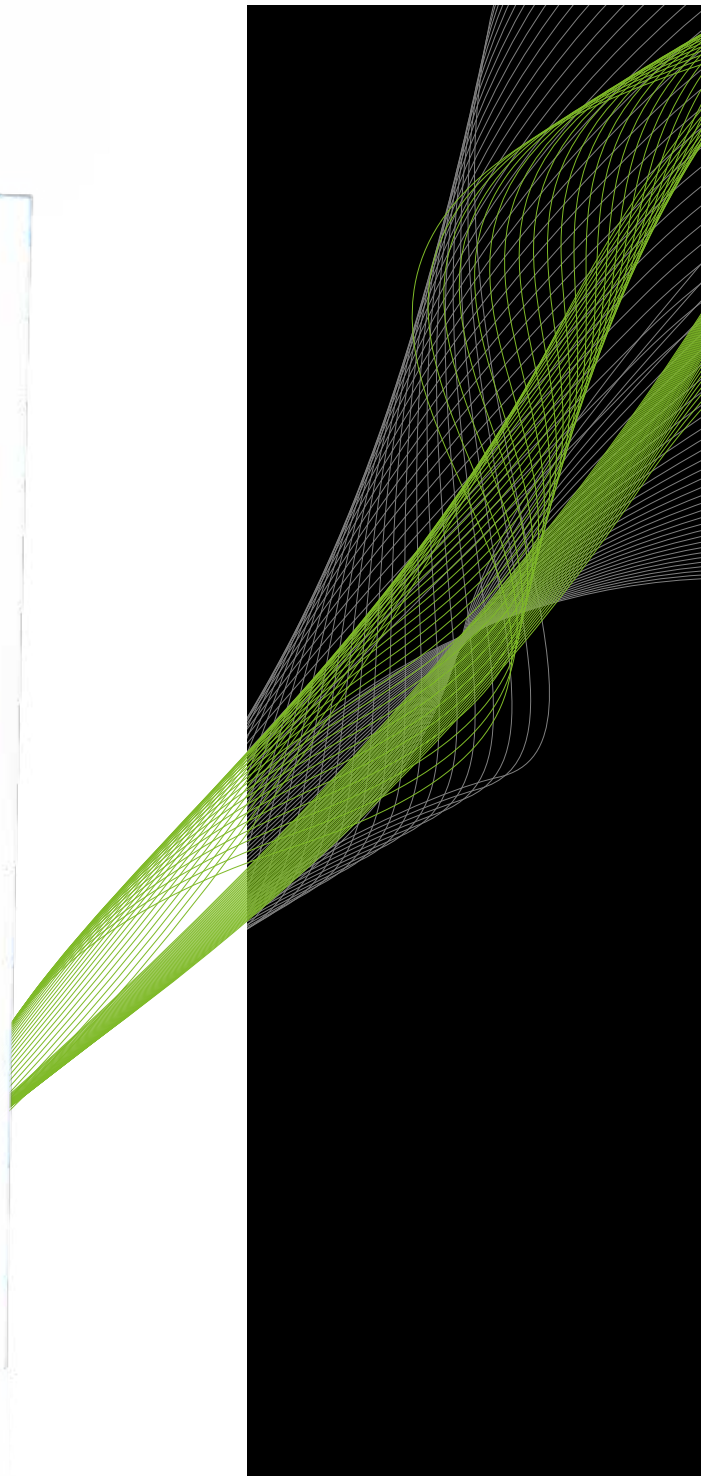# Captair Smart

Ductless filtering chemical storage cabinets

Life in the lab becomes **Simpler** *Safer*

Captair Smart

Ductless filtering chemical storage cabinets

Erlab's innovative technology keeps you safe

Erlab's unique Flex Filtration can manage most chemicals storages

SMART TECHNOLOGY
Simple, intuitive communication by light shows the status of the unit

Sensors to detect filter saturation

Low power consumption. Operates with a standard plug

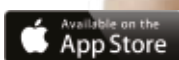Sensors alert the user if the door is left open

Locking doors for added security

Clear doors for easy viewing

Download the eGuard App for remote control and monitoring

Safe, easy access to your chemicals with adjustable spill-proof shelves, pull-out vertical shelves, large volume drawers

Life in the laboratory becomes simpler and safer

Simpler to use *Safer* to operate

Erlab's 50 years of expertise in research, design and manufacturing of filtering fume hoods and chemical storage cabinets guarantee superior filtration that will keep you protected during your chemical processes.
Smart Technology: The new Captair Smart filtering chemical storage cabinets are designed with a simple and innovative way of communication. Smart Technology uses simple light to show that the unit is operating safely so you can focus your attention on what is most important: your work.

| Filtration	Simple to use	Safety	Connectivity
Demand the best filtration quality	A single activation key	A powerful communication interface via light pulses to enhance safety.	Connect your device and monitor its use remotely via our mobile solutions.

Simpler to use

- SMART technology informs users about their protection using light and sound .
  Light and sound pulses give real time information about:
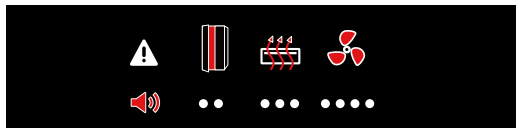
  Doors are left open
  Filter breakthrough
  Fan Failure

- **The eGuard App** gives you remote control to monitor the hood, change the settings, and delivers safety alerts immediately to your mobile, tablet or PC device.

Safer to operate

- The configurable filtering system above the enclosure can be adapted to filter gases, solvents, powders and particulates keeping the user and the lab protected by safely and efficiently recirculating air within the room and releasing purified air back into the room free of any toxic hazardous vapors or odors.
- Meets AFNOR NFX 15 211/ANSI Z9.5-2012 filtration efficiency standard (classes 1 and 2).
- New sensors are added for detection of solvents or acids or formaldehyde.
- New sensors are added if doors are left open.
- ESP Program: Usage certification delivered with each unit after approval of your storages by our in-house lab.

Organize your chemicals storage

- Smaller sizes are available for use on or under counters or equipment.
- Floor-standing models can be configured with adjustable spill-proof shelves, pull-out vertical shelves, and large volume drawers.

822	832	834	1634

Storage capacity: 20 - 25 bottles of 1L	Storage capacity: 100 - 120 bottles of 1L	Storage capacity: 100 - 120 bottles of 1L	Storage capacity: 200 - 240 bottles of 1L

Design	822	832	834	1634
Width (mm)	650	900		1800
Depth (mm)	580	500		
Height min - max (mm)	755	2050	2140 - 2300	
Air Flow	70 m³/h		220 m3/h	
Safety Standards	Filtration performances tested according to the AFNOR NF X 15-211:2009 standard : France EN 1822 : 1998 (HEPA H14 & ULPA U17 Filters) - CE Marking			
Power consumption	35W		45W	
Voltage/Frequency	80 - 220 V / 50-60 Hz			
Structure	Corrosion resistant electro-galvanized steel coated with anti-acid polymere			
Doors	Clear, chemical resistant acrylic for easy viewing			
Filtration Module	Polypropylene			

Configurable storage options

822	2 storage compartments with sliding doors or 1 storage compartment with large volume drawer
832	2 storage compartments : spill-proof shelves, large volume drawers pull-out vertical shelves
834	2 storage compartments : spill-proof shelves, large volume drawers pull-out vertical shelves
1634	4 storage compartments : spill-proof shelves, large volume drawers pull-out vertical shelves

Features

Smart Technology	Simple communication by LED pulsation system: fan settings, usage timer, fan failure, face velocity, automatic filter saturation detection
Flex Technology	1 column that can be configured for liquids, powders, or both storages
Carbon filtration for gases and vapors	AS : For organic vapors - BE+ : For organic and acid vapors F : For formaldehyde vapors - K : For ammonia vapors
Particulate filtration for powders	HEPA H14 : 99.995 % filtration efficiency according MPPS method, EN1822 standard ULPA U17 : 99.999995 % filtration efficiency accordinfg MPPS method, EN1822 standard
eGuard	App for remote control to monitor the chemical storage cabinet, change the settings, and deliver safety salerts immediately to your devices (mobile, tablet and PC)
Connectivity	RJ45 cable connection
Molecode	Detection sensors for solvents or acids or formaldehyde
Doors sensors	Alarm if doors are left open
Chemical Listing	List of approved chemicals

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Chemtrap Smart

Stand alone filtration system for fire proof
and chemical storage cabinets

Protection from inhalation of noxious chemicals

- Transforms any fire proof or chemical storage cabinet into a standalone filtered storage safety cabinet

- Eliminates noxious vapors released from your fire resistant safety cabinet and improves your safety from inhalation risks

- Continuously cleans the air in your lab

- Simple and intuitive communication by light and sound system

- Easy to install, energy saving, & economical, no ducting needed

* Compatible with fire proof and other storage cabinets
  Safety cabinet not provided

Chemtrap Smart

Stand alone filtration system for chemical storage cabinets

Erlab's innovative technology keeps you safe

Transforms any fire proof or chemical storage cabinet into a standalone filtered storage safety cabinet

Fast and easy installation, no ducting required

SMART TECHNOLOGY

Simple, intuitive communication by light shows the status of the unit

Compatible with fire proof and other storage cabinets

Very low energy consumption Reduced running costs

Mute alarm button

Hydraulic pistons for fast filter housing access

Automatic filter performance alarm

Handles for easy transport and installations

Erlab's unique filtration technology allows for the use of carbon and HEPA filters for the filtration of gases and particles

Download eGuard App for remote control and monitoring

Life in the laboratory becomes simpler and safer

Simpler to use *Safer* to operate

Erlab's 50 years of expertise in research, design and manufacturing of filtering fume hoods and chemical storage cabinets guarantee superior filtration that will keep you protected during your chemical processes.

Chemtrap Smart filters the air from the internal chamber of a storage cabinet, captures toxic fumes right at the source and returns clean air back into the laboratory while contributing to a better and safer working environment. Designed as a standalone system with no need for ducting, it is equipped with an adjustable flexible air duct that allows for easy connection points to the side, back or to the top of your existing cabinet.

Equipped with the highest efficiency filtration system, Chemtrap Smart now integrates an innovative and straightforward mode of communication called Smart Technology. This technology uses simple light and sound pulsations to show that the unit is operating safely so you can focus your attention on what is most important: **your work.**
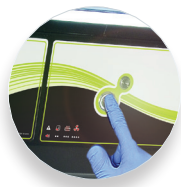
| Filtration	Simple to use	Safety	Connectivity	Compatibility
Demand the best filtration quality.	A single activation key. Easy to install and to replace filters.	A powerful communication interface via light pulses and sounds to enhance safety.	Connect your device and monitor its use remotely via our mobile solutions.	Compatible with fire proof and other storage cabinets.

Simpler to use

- SMART technology informs users about their protection using light and sound. Light and sound pulses give real time information about:
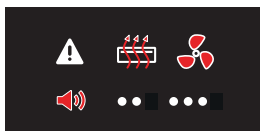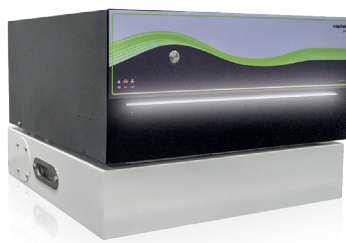
  •• Filter alarm
  ••• Fan alarm

- eGuard App gives you remote control to monitor your Chemtrap, change the settings, and delivers safety alerts immediately to your mobile, tablet or PC device.

Safer to operate

- The configurable filtering system above the fire proof or chemical storage cabinet can be adapted to filter gases, solvents, powders and particulates keeping the user and the lab protected by safely and efficiently cleaning the air within the room free of any toxic hazardous vapors or odors.
- New optional sensors can be added for detection of solvents or acids or formaldehyde.

H 402

Model description	H 402
External width (mm / in)	482 / 18,98
External depth (mm / in)	451 / 17,76
External height (mm / in)	315 / 12,40
Air flow (m³/h - CFM)	75 m³/h
Safety Standards	Filtration performances tested according to the AFNOR NF X 15-211:2009 standard : France EN 1822: 1998 (HEPA H14 & ULPA U16 Filters) - CE Marking
Voltage / Frequency (V/Hz)	230 / 50
Power consumption (Watts)	19
Flexible PVC pipe (meter / feet)	1 meter / 3,3 feet (∅ 63 mm)
PVC fitting	∅ 65-75-80-100 mm

Features

Smart Technology	Simple communication by LED pulsation system: fan settings, usage timer, fan failure, face velocity, automatic filter saturation detection
eGuard	App for remote control to monitor the chemical storage cabinet, change the settings, and deliver safety salerts immediately to your devices (mobile, tablet and PC)
Connectivity	RJ45 cable connection
Chemical Listing	List of approved chemicals

Options

Carbon filtration for gases and vapors	AS : For organic vapors - BE+ : For organic and acid vapors F : For formaldehyde vapors - K : For ammonia vapors
Particulate filtration for powders	HEPA H14 : 99.995 % filtration efficiency according MPPS method, EN1822 standard ULPA U16 : 99.99995 % filtration efficiency accordinfg MPPS method, EN1822 standard
Optionnal molecode gas sensors	Detection sensor: Type A, for acids / Detection sensor: Type F, for formaldehydes / Detection sensor: Type S, for solvents

Structure

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

Simpler *Safer*

Captair 822B Smart
Ductless filtering chemical storage cabinets

Safer to operate
- Exclusive Erlab filtration technology
- Filtration performances tested in accordance with AFNOR NF X 15 211
- Secured storage
- Real time sensors to detect main filter saturation with solvents, acids or formaldehyde
- Erlab Safety Program: be guided for the right choice of your secured storage solutions
- Connect with eGuard™ for real-time status, notifications and alerts

Simpler to use with Smart-Light™
With Smart-Light, you can easily see that the storage cabinet is operating safely.
Should the light pulse, you are notified that:
- Containment has been compromised or,
- The filter has breakthrough or,
- There is a fan failure

Flexibility
- Two models are available:
    2 storage compartments with sliding doors
    1 drawer and sliding shelf
- Easy and fast relocation

Savings
- No ductwork needed
- Low annual energy cost
- Low replacement filter cost

Environment
- Pollutants filtered at the source

You get the highest level of filtration performance
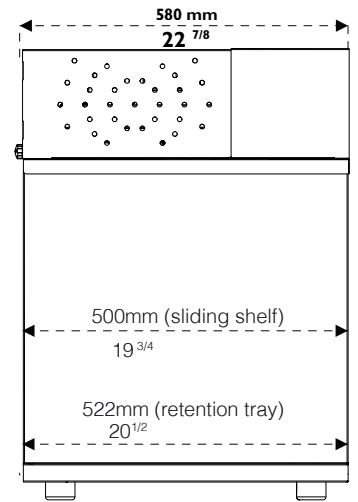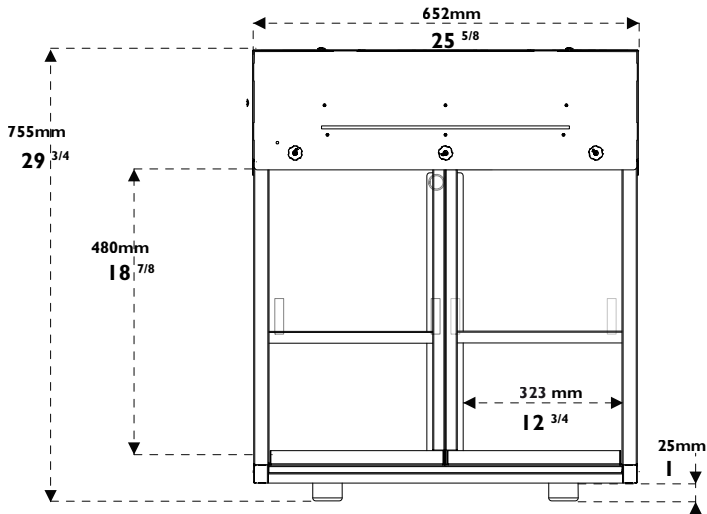
Smart-Light keeps you safe

Connect your equipment and download the eGuard App for remote access
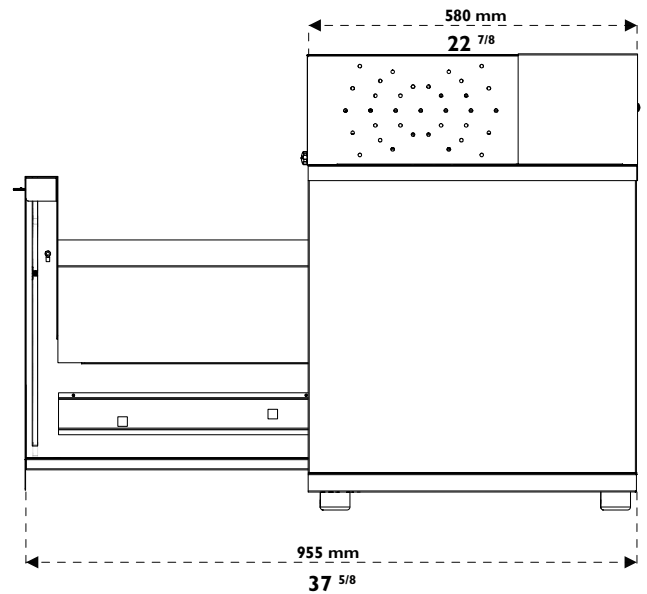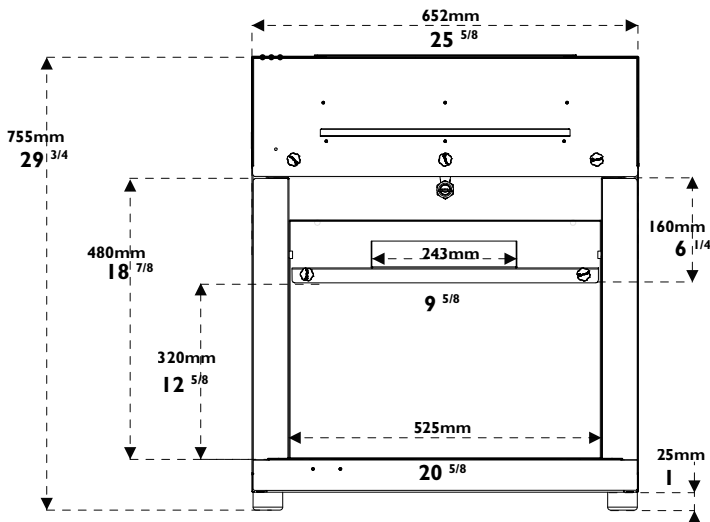
Dowload our eGuard application

App Store   Google play

Option 1: Storage cabinet with 2 compartment and sliding doors

652mm
25 5/8

755mm
29 3/4

480mm
18 7/8

323 mm
12 3/4

25mm
1

580 mm
22 7/8

500mm (sliding shelf)
19 3/4

522mm (retention tray)
20 1/2

Option 2: Storage cabinet with 1 drawer and 1 sliding shelf

652mm
25 5/8

755mm
29 3/4

480mm
18 7/8

243mm
9 5/8

160mm
6 1/4

320mm
12 5/8

525mm
20 5/8

25mm
1

580 mm
22 7/8

955 mm
37 5/8

Technical specifications

Safety Standards	Filtration performances tested according to the AFNOR NF X 15-211:2009 standard : France EN 1822 : 1998 (HEPA H14 & ULPA U17 Filters) - CE Marking
Air Flow	70 m3/h / 41 CFM
Voltage/Frequency	80 - 220 V / 50-60 Hz
Power consumption	35W
Structure	Corrosion resistant electro-galvanized steel coated with anti-acid polymer
Doors	Clear, chemical resistant acrylic for easy viewing
Filtration Module	Polypropylene

Features

Smart-Light	When the light is pulsing: -Door(s) left open -Containment is compromised -Filter breakthrough
Carbon filtration	AS : For organic vapors - BE : acid vapors F : For formaldehyde vapors - K : For ammonia vapors
Particulate filtration for powders	HEPA H14:99.995 % efficiency filtration of particles over 0.1 μm in size
eGuard app (Android or iOS)	For remote control to monitor the status of the storage cabinet, change the settings, and deliver safety alerts immediately to your devices (mobile, tablet and PC)
Doors sensors	Alarm if doors are left open
Chemical Listing	List of most commonly used chemicals (NIOSH) and their retention capacity by our filters

Storage configurations

	Option 1	Option 2
Storage capacities	50 x 1L bottles	25 x 1L bottles (retention tray) 50 x bottles (drawer)
Storage compartments	2	1
Delivered with	2 trays + 2 sliding Shelves	1 drawer + 1 sliding shelf
Absorbing mats	2	2
Lock	Key lock	

Options

Molecode	Detection sensor: Type S, for solvents / Type A, for acids / Type F, for formaldehyde

Erlab's state of the art Research & Development Laboratory relying exclusively on filtration

Erlab above

About Erlab

We provide safety, we protect your health

Inventor of the ductless fume hood, Erlab is an expert in air filtration for the protection of laboratory personnel since 1968. With over 50 years of experience and 150,000 units installed in 40 countries, Erlab offers advanced technologies that protects lives, saves money, and enhances environmental sustainability. All our products our certified by experts for individual applications, ensuring that our products fully meet customer expectations.

With manufacturing facilities in the US, China, and Europe, employing highly trained engineers and scientists worldwide, we deliver solutions globally.

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 as we 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 recognized by ANSI Z9.5-2012.

3 **A Published Chemical Listing**

It all begins here. Our chemical listing directory insures we are compliant with AFNOR NFX 15-211. Our in-house laboratory tests and independent testing verifies 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 adhere to the strict performance criteria of the AFNOR NF X 15-211:2009 standard ensuring that the emissions concentration at the filter exhaust will always be lower than 1% of the TLV.

5 **Application Questionnaire**

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 support our products 100%. This program includes your specialized chemical evaluation, validation of your hood upon installation, and your filtration safety specialist that ensures your hood is operating to its full potential.

erlab