

SAFETY CABINETS FOR CORROSIVE PRODUCTS (ACIDS & BASES)



Range 4



Range 8A



Range 8B

Fume hoods, filtering
cabinets - Ventilation

Lithium-ion
cabinets

Flammable
cabinets

Corrosive
cabinets

Toxic cabinets
and Multirisk

Containment
and cans

File cabinets
Anti-fire equipments

Showers and first-
aid equipments

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SAFETY CABINETS FOR THE STORAGE OF CORROSIVE PRODUCTS (ACIDS & BASES)

GENERAL

For safety reasons, corrosive products (acids and bases) must be stored in safety cabinets to avoid any risk of leakage or breakage of a bottle. You should also make sure that you separate Acids from Bases when storing them. Some of the cabinets in this catalogue are divided into compartments, allowing incompatible products to be stored in the same cabinet.

This catalogue offers you different storage solutions for your corrosive products according to your safety requirements. Whatever your field of activity (workshop, laboratory, storage warehouse, production unit, etc.), if you store products that are little to very corrosive, you must store them in safety cabinets. Do not hesitate to contact us for a quick and personalized advice.

What is an anti-corrosion cabinet?

There are two main types of cabinets for storing corrosive products. The first type, intended for the storage of low-corrosive products, consists of safety cabinets made of steel. These cabinets have high-density polyethylene or PVC overlay protection on the shelves and the containment sump. The second type, intended for the storage of highly concentrated and therefore very corrosive products (nitric, sulphuric, hydrochloric, hydrofluoric acids, etc.), consists of cabinets made of high density polyethylene or cellular PVC. These corrosion-resistant materials offer perfect resistance to corrosive vapors and liquids.

Is forced ventilation necessary?

Forced ventilation is very important for metal safety cabinets in order to extend their life span. Despite the use of high quality steel and paint, nothing can prevent acids from corroding a metal enclosure over time. Furthermore, for the well-being of the users, it is strongly recommended to ventilate the cabinet, whether it is made of steel or anti-corrosion material, in order to evacuate a possible formation of dangerous fumes in the cabinet. We therefore invite you to consult our different solutions in terms of forced ventilation (external rejection, filtration with active charcoal filter...) at the end of this catalogue in order to find the one adapted to your needs. Do not hesitate to contact us for any further information.

STANDARDIZATION



FM (FACTORY MUTUAL):

International insurance and accreditation body for safety equipment and advice to companies.



STANDARD NF X 15-211 - May 2009:

Concerns the quality of ventilation and filtration as well as the quality of containment of recirculating air fume hoods intended for the handling of chemicals in laboratories.



VENTILATION OF YOUR CABINET

Necessary accessory to optimize the security of your cabinet.

We highly recommend to add a ventilation or filtration box to your safety cabinet. The box allows to adsorb stagnating vapors trapped and to renew the air within the cabinet ultimately avoiding internal over heating.



FM SAFETY CABINETS FOR CORROSIVE PRODUCTS⁽¹⁾



COMPLIANCE

Complies with NFPA (National Fire Protection Association) OSHA (Occupational Safety and Health Administration) and FM (Factory Mutual international) specifications.

ADVANTAGES

- Very robust construction.
- Integrated door handle.
- Self-closing cabinets ⁽²⁾, with a preponderance of wings.
- Continuous hinges ensure excellent door retention.
- Many models available.

PASSIVE SAFETY

- Double-walled steel construction (38 mm air space).
- Blue epoxy paint.
- Height adjustable shelves on racks with high density polyethylene (HDPE) overlay.
- Containment sump integrated at the bottom of the cabinet (height 50 mm) with overprotection in high density polyethylene (HDPE).

- Fixing point for earthing.
- The B24M and B24S cabinets are equipped with a high density polyethylene (HDPE) worktop.

ACTIVE SAFETY

- Top and bottom ventilation holes (Ø 50 mm) with flame arrestor grid.
- Continuous door hinges.
- Hinged doors with manual or automatic closing.
- Three-points locking.
- Key lock.

OPTIONS

- Additional shelves.
- Absorbent mats to be placed at the bottom of the retention bin containment sump (packs of 10 sheets reference JF10D).
- Ventilation or filtration boxes.

P/N	Closing of the doors	External dim. H x W x D (mm)	Internal dim. H x W x D (mm)	Storage capacity (L)	Containment capacity (L)	Number of shelves	HDPE Protections	Max. load per shelf (kg)	Weight (kg)
B04MJ	Manual	559 x 432 x 432	465 x 345 x 360	15	6	1	2	75	26
B04SJ	Self-closing								28
B18MJ	Manual	610 x 1092 x 457	515 x 1005 x 390	64	20	1	2	75	58
B18SJ	Self-closing								60
ESP18	-	Additional shelf for 64 litre cabinet						-	4
B22MJ	Manual	1651 x 591 x 457	1560 x 500 x 390	86	10	3	4	75	86
B22SJ	Self-closing								88
ESP22	-	Additional shelf for 86 litre cabinet						-	2
B24MJ	Manual	910 x 890 x 560	710 x 795 x 455	90	18	1	2	75	92
B24SJ	Self-closing								95
ESP24	-	Additional shelf for 90 litre cabinet						-	4
B30MJ	Manual	1118 x 1092 x 457	1025 x 1005 x 390	113	20	1	2	75	88
B30SJ	Self-closing								90
ESP30	-	Additional shelf for 113 litre cabinet						-	4
B45MJ	Manual	1651 x 1092 x 457	1560 x 1005 x 390	170	20	2	3	75	121
B45SJ	Self-closing								123
ESP45	-	Additional shelf for 170 litre cabinet						-	4
B60MJ	Manual	1651 x 864 x 864	1560 x 770 x 780	228	30	2	3	75	149
B60SJ	Self-closing								151
ESP60	-	Additional shelf for 228 litre cabinet						-	8

(1) Cabinets not suitable for the storage of very corrosive products: nitric, sulphuric, hydrochloric acids... and must be connected to forced ventilation for a better longevity. Refer to Range 8.A and 8.B cabinets for very aggressive products and to Range V for forced ventilation.

(2) Depending on model.



Fume hoods, filtering cabinets - Ventilation

Lithium-ion cabinets

Flammable cabinets

Corrosive cabinets

Toxic cabinets and Multirisk

Containment and cans

File cabinets Anti-fire equipments

Showers and first-aid equipments

CORROSION RESISTANT SAFETY CABINETS FOR ACIDS & BASES



COMPLIANCE

- Standardized warning labels in accordance with ISO 3864, ISO 7010 and NF X 08.003 standards, and to European directive 92/58/EEC.
- Complies with the recommendations of the I.N.R.S.

ADVANTAGES

- Specially designed for the storage of acids and bases.
- Cellular PVC construction offering perfect resistance to the aggression of corrosive vapors and liquids.
- Compartment divided cabinets for the separation of acids and bases (except for the APC31+ model, either acids or bases).

PASSIVE SAFETY

- White cellular PVC construction.
- Standardized «Acids», «Bases» and «Toxics» labels (APC106+ only).
- Sliding shelves/tanks with stopper in each main compartment.
- Independent compartments (except for APC31+) for the storage of acids, bases and toxic products (only for APC106+).

- Each cabinet is divided into a main compartment and a secondary compartment (except for models APC61+, APC111+ and APC221+).

ACTIVE SAFETY

- Top and bottom ventilation holes with Ø 100 mm sleeve for possible connection.
- Lockable doors:
- Hinged for models APC31+, APC91+ and APC106+.
- sliding for models APC61+, APC111+ and APC221+.
- Levelling feet for levelling.

OPTIONS

- 3 Labopur® H50 air recirculation air box:**
- Benefit from the Labopur® technology on your safety cabinet thanks to the Labopur® housing whose ventilation/filtration system and filter adsorption capacity have been tested and approved to the NF X 15-211 standard of May 2009.

P/N	External dim. H x W x D (mm)	Number of compartments		No. of shelves/of Containment sumps		Storage capacity (L)	Containment capacity (L)	Load capacity per shelf (kg)	Weight (kg)
		Principal	Secondary	Principal	Secondary				
APC31+	630 x 635 x 603 ⁽¹⁾	1	1	2	2	40	28	20	30
APC61+	630 x 1135 x 603 ⁽¹⁾	2	-	4	-	72	44	20	60
APC91+	1900 x 635 x 615	2	2	6	6	120	84	20	90
APC111+	1100 x 1135 x 615	2	-	6	-	100	66	20	110
APC106+	1900 x 635 x 615	3	3	5	5	108	70	20	83
APC221+	1900 x 1135 x 615	2	-	8	-	144	88	20	155
E8A2	Additional sliding retainer shelf					20	11	20	6

(1) Depth with connecting sleeve at the rear. Depth without sleeve: 578 mm



CORROSION RESISTANT SAFETY CABINETS FOR ACIDS & BASES



Fume hoods, filtering cabinets - Ventilation
Lithium-ion cabinets
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File cabinets
Anti-fire equipments
Showers and first-aid equipments

COMPLIANCE

- Standardized warning labels in accordance with ISO 3864, ISO 7010 and NF X 08.003 standards, and with European directive 92/58/EEC.
- Complies with the recommendations of the I.N.R.S.

ADVANTAGES

- Specially designed for the storage of acids and bases.
- Melamine construction offering perfect resistance to the aggression of vapors and corrosive liquids⁽¹⁾.
- Compartmentalised cabinets for the separation of acids and bases (except for the APC32+ model, either acids or bases).

PASSIVE SAFETY

- Melamine construction.
- Standardized symbols for «Acids», «Bases» and «Toxics» (APC107+ only).
- Sliding shelves/tanks with stopper in each main compartment.
- Independent compartments (except for APC32+) for the storage of acids, bases and toxic products (only for APC107+).

- Each cabinet is divided into a main compartment and a secondary compartment (except for models APC62+, APC112+ and APC222+).

ACTIVE SAFETY

- Top and bottom ventilation holes with Ø 100 mm sleeve for possible connection.
- Lockable doors:

 - Hinged for models APC32+, APC92+ and APC107+.
 - sliding for models APC62+, APC112+ and APC222+.

- Levelling feet for levelling.

OPTIONS

- 3 Labopur® H50 air recirculation air box:**

 - Benefit from the Labopur® technology on your safety cabinet thanks to the Labopur® housing whose ventilation/filtration system and filter adsorption capacity have been tested and approved to the NF X 15-211 standard of May 2009.

P/N	External dim. H x W x D (mm)	Number of compartments		No. of shelves/of Containment sumps		Storage capacity (L)	Containment capacity (L)	Load capacity per shelf (kg)	Weight (kg)
		Principal	Secondary	Principal	Secondary				
APC32+	630 x 635 x 603 ⁽²⁾	1	1	2	2	40	28	20	30
APC62+	630 x 1135 x 603 ⁽²⁾	2	-	4	-	72	44	20	60
APC92+	1900 x 635 x 615	2	2	6	6	120	84	20	90
APC112+	1100 x 1135 x 615	2	-	6	-	100	66	20	110
APC107+	1900 x 635 x 615	3	3	5	5	108	70	20	83
APC222+	1900 x 1135 x 615	2	-	8	-	144	88	20	155
E8A2	Additional sliding retainer shelf					20	11	20	6

(1) Melamine is still sensitive to corrosive liquids. It is imperative to store acid and base bottles in the polypropylene containers provided for this purpose. In the event of a liquid spill, the melamine must be cleaned as soon as possible.
 (2) Depth with connecting sleeve at the rear. Depth without connection sleeve: 578 mm

RANGE 3030.M

EN 14470-1 FM 6050



EN 14470-1 & FM⁽¹⁾ 30 MINUTES SAFETY CABINETS FOR ACIDS AND BASES

CERTIFICATION

- Tested and approved Type 30 according to EN 14470-1 (04-2004) and EN 1363-1 (06-2000).
- ⁽¹⁾Tested and approved 10 minutes according to FM 6050 (Factory Mutual international).
- Normalized labelling according to ISO 3864 and EN 14470-1 (04-2004) norms, 92/58/CEE european directive and FM regulations.

ADVANTAGES

- 30-minutes fire resistance according to ISO 834 fire heating curve.
- Pedestal area under-driveable by a forklift by removing panel (except for the under-bench models).
- Self-closing doors with possibility to keep the door(s) open. If the temperature rises to 43°C, a fuse link closes the door(s) automatically.

PASSIVE SECURITY

- Built in melamine-corrosion proof and overall good chemicals resistance.
- Grey structure (RAL 7035), yellow edges (RAL 1023).
- Safety labelling as per EN 14470-1 and FM 6050
- Containment shelves adjustable in height (step every 32 mm).
- Removable bottom containment sump.

ACTIVE SECURITY

- Ø 100 mm air inlet and outlet with connecting pieces for possible exhaust.
- Self-closing doors.
- Doors with a lockable three-point latching mechanism.
- Non-sparking locking mechanism.
- Adjustable leveling feet for enhance stability.
- In case of fire, a thermo-fuse automatically seals off the ventilation system.
- Thermo-expanding seals of the door(s) allow keeping the internal body fireproof.



^ 3035M11



OPTIONS

- Additional retention shelf.
- Perforated cover plate for base trough.
- Self retracting shelf.
- PVC shelf and retention tank
- Ventilation or filtration boxes.
- Industrial absorbing mat (P/N: JF10D).

Ventilation and Filtration Boxes

To protect the users health and to improve the life cycle of your safety cabinet, we recommend to install an exhausting system. Do not hesitate to contact-us for more information.



Recirculating AirBox Labopur - H50C

Take advantage of Labopur's technology with any safety cabinet. Active charcoal filters adsorbtion's capacity and filtration system are tested and certified NF X 15-211.



P/N	Description	Outside Dim. H x W x D (mm)	Inside Dim. H x W x D (mm)	Storage capacity (Kg)	Delivered with				Maximum load by shelf ⁽¹⁾ (kg)	Weight (kg)
					Shelves		Containment sump			
					Steel	PVC	Steel	PVC		
3035M11	Tall cabinet, 2 doors, 2 compartments	1980x1115x550	(2x) 1561x472x484	240	6	option	2	option	30	232
E48	Additional shelf	30x490x410	-	-	-	-	-	-	30	3
C148	Perforated cover plate	100x490x410	-	-	-	-	-	-	30	4
SE148	PVC containment shelf for E48	30x475x405	-	-	-	-	-	-	-	3
SB148	PVC base trough	100x475x405	-	-	-	-	-	-	-	4

Refer to the table of chemical incompatibilities and precautions for use, to validate the configuration of your cabinet according to your needs.

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Flammable cabinets

Corrosive cabinets

Toxic cabinets and multirisk

Pesticide ranges

Fume hoods, filtering cabinets - Ventilation

Containment and Cans

Anti-fire equipments and Files cabinets

Showers and first-aid equipments



Labopur® RECIRCULATING AIR BOX



▲ AFP5-2X + H50C+ CORG51



▲ H50C + CORG51 (for changing the filter)



1
Timer



2
Active charcoal filter



3
Control window

OPERATING PROCESS

Take advantage of **Labopur®** technology onto any cabinet. The electric fan allows the extraction of harmful and toxic vapors from your cabinet. They are purified as they pass through the active charcoal filter and then released into the atmosphere without harming the environment.

COMPLIANCE

- Adsorption capacity of active charcoal filters and filtration system tested and approved to NF X 15-211 - May 2009.
- Electrical fan conforms to CE specifications.

ADVANTAGES

- **Labopur®** technology.
- Adaptable to any cabinet, 3 connection possibilities.
- Solution without civil engineering, simple and aesthetic assembly.
- Indicator light for ventilation system operation.
- Window for checking the presence of the filter adapted to your needs.
- High efficiency active charcoal filter specialised and treated according to the products stored, tested to NF X 15-211 - May 2009.
- Anti-dust filter, 92% efficiency against particles < 3 µm.
- Easy replacement of the active charcoal filter.
- Hour meter permanently indicating the total duration of use of the cabinet. After programming, every 60 hours, an acoustic signal indicates that the active charcoal filter should be checked for saturation.

TECHNICAL CHARACTERISTICS

- 12/10th steel construction.
- White RAL 9010 and blue RAL 5015 epoxy paint.
- Silent electric fan, 43 dB(A) (excluding air flow), 220-240 volts - 20 watt - 0,1 A - flow rate 86 m3/h - IP54 protection.
- Suction diameter: Ø 100 mm.

OPTIONS

- Active charcoal filter: boxes are delivered without active charcoal filter.
- You must select one from the table below according to the types of products you store.
- Filter obsolescence controls by REACTIVE TUBES: Control port on the side of the cabinet.
- Hole for introduction of specialised reagent tubes Use of a hand pump.
- Detection of the efficiency or saturation of the active charcoal filter by reading the tubes.
- Connection kit option (KRC):
- Allows easy connection of an Air Box to a safety cabinet.
- 1 Ø 100 mm sleeve, ref. CHJ, to be fixed on the ventilation outlet of your cabinet.
- 1 metre of Ø 100 mm flexible hose, ref. KL100.
- 2 clamps Ø 100 mm, ref. CDS100.

REMINDER: We also propose specific type of filters for specific applications. Filters must be changed at least once a year.

P/N	Description	Dimensions H x W x D (mm)	Weight (kg)
H50C	Recirculating air box (delivered without filter)	310 x 510 x 485	15
ORG50	Active charcoal filter for organic vapors	70 x 390 x 390	8
CORG51	Polyvalent active charcoal filter ⁽¹⁾ for corrosive and organic vapors	70 x 390 x 390	9
FOR50	Active charcoal filter for formaldehyde vapors	70 x 390 x 390	9
CAR50	Kit to use recycling air box without filter	70 x 390 x 390	2
PMAF	Manual pump	-	0,4
TROR	10 organic test tubes	-	0,1
TRAC	10 "corrosive" test tubes	-	0,1
TROA	5 "organic" and 5 "corrosive" test tubes	-	0,1
KRC	Connection kit for box	-	1

(1) CORG multipurpose active charcoal filters can adsorb the vast majority of commonly used products: corrosive products, organic compounds or solvents.