Combi safety storage cabinets for the unrestricted storage of flammable and aggressive hazardous materials in working areas

1

Three in one combi safety storage cabinet
Safe and separated storage of acids, alkalis and flammable hazardous materials in one cabinet.

2

Safe, separate storage
Two hermetically separated storage compartments with fire resistant dividing wall; integrated aeration and venting system; corrosion resistance of the metal-free air ducts.

3

Storage compartment type 90 for model PHOENIX Vol. 2 (FWAC)
Doors remain open in the serial door open arrest system; convenient and safe removal or storage of containers; doors close automatically after approx. 60 seconds; acoustic and visual signal before closing.
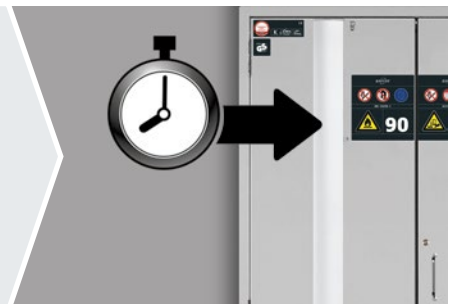
4

Storage compartment type 90 for model PHOENIX
Doors remain open with the serial door open arrest system; convenient and safe removal or storage of containers.

5

No unauthorised use
Doors lockable with profile cylinder and cylinder lock.

6

Ventilation
Even ventilation and extraction of the entire cabinet interior. Integrated air ducts ready for connection (DN 75) to a technical exhaust system. The potential formation of explosive atmospheres or harmful vapours is safely prevented.

7

Hazardous substances center
Storage box for toxic materials; storage box separately lockable.

- **Fire resistance of 90 minutes** (type 90), type-tested in accordance with EN 14470-1

- **GS-tested** (document EK5/AK4 09-10, ProdSG)
- **50,000** wear-free opening and closing actions
- Test basis: all cabinets of this model group correspond to the requirements of the Product Safety Act (§21 Para. 1) with respect to the guarantee of safety and health

- Conformity in accordance with the requirements of **EN 16121** and **16122**
- Requirements and test methods for safety, strength, durability and stability.

- **Excellent products with special manufacturer warranty**
- Extended **manufacturer warranty of up to 5 years** in combination with the asecos BASICPlus tariff
- Further information from page 494

Interior equipment

Our numerous cabinet models can be easily adapted to a variety of storage requirements thanks to the wide range of interior equipment options. Depending on requirements, interior equipment packages with the following components are available:

Drawer

Ideally suited for the storage of small containers up to 5 L, spray cans or compressed gas cans
- The extended drawer provides an overview of all stored hazardous materials
- All containers can be conveniently and safely removed or adjusted
- The drawers are self-closing in case of fire or have a permanent self-closing mechanism
- Available material: powder-coated sheet steel (RAL 7035) or stainless steel

Metal-free storage level

Optimally suited for the storage of flammable and slightly aggressive hazardous materials.
- The tray shelf with chemically resistant surface coating and plastic sump offers a high level of corrosion protection
- The plastic sump is mounted on the tray shelf to prevent it from tipping and pulling out, and can be easily removed if necessary
- Available material: polypropylene (grey)

Bottom collecting sump and perforated insert

High quality bottom collecting sumps
- Possible leakages are safely collected in the floor area
- Can be used in combination with a perforated insert as an additional storage level for containers
- Available material: powder-coated sheet steel (RAL 7035), stainless steel or polypropylene

Shelf and shelf tray

Suitable for larger containers
- The shelves are height-adjustable and can be easily adapted to the height of the containers
- A safety upstand protects the containers from falling down
- Available material: powder-coated sheet steel (RAL 7035) or stainless steel

Accessories

Practical accessories such as plastic sump inliner, anti-slip mats or separately lockable storage boxes complement the interior design variants and provide additional comfort and safety when storing and handling the containers

HAVE YOU GOT **SPACE** TO **WASTE?**

… probably not.
This is exactly the reason why we want to introduce you to the benefits of safety storage cabinets with full drawers.

THE TASK

THE SOLUTION

A situation known to many users:

- Which conditions should be used when clearing the containers in the cabinet?

- Which containers are on the front of the shelves, which are to the rear?

- Which hazardous materials should be placed on one storage level if possible?

- How can it be guaranteed that the containers from the rear rows can be easily and safely removed?

Safety storage cabinets with drawers make these questions redundant!

- Logical storage of small containers

- Easily accessible for storage and removal

- Safe and simple collection of waste materials in waste containers

Convenient – no awkward removal of containers to remove containers from the rear storage area. ✓

The question of whether containers should be at the front or rear does not arise. The full drawer always gives you the **complete overview** of the storage level. ✓

Hazardous materials that should be placed together on a storage level can be easily and **logically arranged in a full drawer. Double your possible storage capacity** in the safety cabinet! ✓

Model K90.196.120.MC.FWAS
Order No. 30335-001-33841

Model K90.196.120.MF.FWAS
Order No. 30333-001-33839

Model K90.196.120.MF.FWAS
Order No. 30333-001-33838

Technical data

External dimensions W x D x H	mm	1197 x 617 x 1969
Internal dimensions W x D x H	mm	left: 450 x 522 x 1742
		top right: 491 x 542 x 862
		bottom right: 491 x 542 x 862
Weight without interior equip.	kg	515
Air change **10 times**	m³/h	9
Diff. pressure (air change **10 times EK5/AK4**)	Pa	5
Air change **30 times**	m³/h	29
Diff. pressure (air change **30 times**)	Pa	28

Main features

- Safe segregated storage due to hermetically separated compartments
- Available with optional hazardous materials centre
- Type 90 compartment with door open-arrest system

You will find technical drawings and adjustment heights for these cabinet models from page 174

Model	Information / equipment	Colour	Order No.
K90.196.120.MF.FWAS	without interior equipment, with door open arrest system, with vertical centre partition (fire resistant)	light grey RAL 7035	30333-001
		laboratory white (sim. RAL 9016)	30333-005
K90.196.120.MC.FWAS	without interior equipment, with door open arrest system, hazardous substances center (including lockable storage box on shelf)	light grey RAL 7035	30335-001

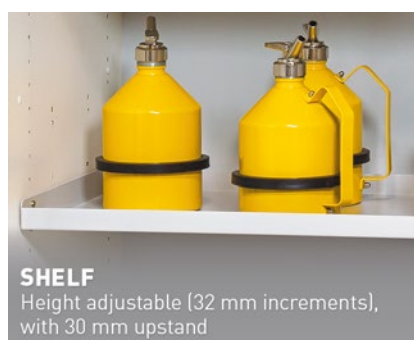| Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
K90.196.120.MF.FWAS		
Left: 3x shelf, 1x perforated insert, 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33838
Left: 3x shelf, 1x perforated insert, 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	stainless steel, panel melamine resin-coated/PP grey	30338
Left: 3x tray shelf (V=11.5L), 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	34257
Left: 3x tray shelf (V=11.5L), 1x bottom collecting sump (V=22.0L) Top: 3x pull-out shelf (V=11.0L) Bottom: 3x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	37687
Left: 6x drawer (V=4.5L) Top right: 3x pull-out shelf (V=11.0L) Bottom right: 3x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33839
Left: 6x drawer (V=4.5L) Top right: 3x pull-out shelf (V=11.0L) Bottom right: 3x pull-out shelf (V=11.0L)	stainless steel, panel melamine resin-coated/PP grey	33840
K90.196.120.MC.FWAS		
Left: 1x storage box, 2x shelf, 1x perforated insert, 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33841
Left: 1x storage box, 2x shelf, 1x perforated insert, 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	stainless steel, panel melamine resin-coated/PP grey	30755
Left: 1x storage box, 4x drawer (V=4.5L) Top right: 3x pull-out shelf (V=11.0L) Bottom right: 3x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33842
Left: 1x storage box, 4x drawer (V=4.5L) Top right: 3x pull-out shelf (V=11.0L) Bottom right: 3x pull-out shelf (V=11.0L)	stainless steel, panel melamine resin-coated/PP grey	33843

Accessories for these cabinet models:

Accessories		Material	W x D x H (mm)	Order No.
	Storage box left hinged	sheet steel powder-coated RAL 7035	380 x 420 x 360	30029
	Sump inliner	PP grey	353 x 406 x 88*	9706
	Sump inliner for drawer supply	PP undyed	318 x 449 x 66*	18472
	Anti-slip rubber mat for drawer supply	black	495 x 340 x 1	8719
	Pipe lead-through	sheet steel powder-coated RAL 7035	182 x 104 x 48	30035
	Box for chemicals	PP blue	410 x 300 x 260	30038
	Document holder DIN A5	polystyrene		30793

Ventilation	Order No.
Extraction unit without exhaust air monitoring	14218

* W x D = usable floor space

Can't find a suitable interior equipment package for your application?
Contact us by phone at +49 6051 9220-0 or by e-mail at
info@asecos.com – together with our experts you will find the right solution.

PULL-OUT SHELF
Sturdy construction with removable plastic sump

SHELF
Height adjustable (32 mm increments), with 30 mm upstand

BOTTOM COLLECTING SUMP
High storage capacity, optimal for the storage of larger containers, safe collection of leakages

Technical ventilation – an important component for risk minimisation! Products for technical ventilation from asecos help to prevent the formation of explosive atmospheres and harmful vapours.

Further information and suitable solutions for technical ventilation can be found from page 326

K-LINE

Model K90.196.120.MC.FWAC
Order No. 30336-001-33841

Model K90.196.120.MF.FWAC
Order No. 30334-001-33839

Model K90.196.120.MF.FWAC
Order No. 30334-001-33838

Technical data

External dimensions W x D x H	mm	1197 x 617 x 1969
Internal dimensions W x D x H	mm	left: 450 x 522 x 1742
		top right: 491 x 542 x 862
		bottom right: 491 x 542 x 862
Weight without interior equip.	kg	515
Air change **10 times**	m³/h	9
Diff. pressure (air change **10 times EK5/AK4**)	Pa	5
Air change **30 times**	m³/h	29
Diff. pressure (air change **30 times**)	Pa	28

Main features

Safe segregated storage due to hermetically separated compartments

Available with optional hazardous materials centre

Type 90 compartment with hold-open system and automatic locking (TSA)

You will find technical drawings and adjustment heights for these cabinet models from page 174

Model	Information / equipment	Colour	Order No.
K90.196.120.MF.FWAC	without interior equipment, with TSA, door open arrest system, with vertical centre partition (fire resistant)	light grey RAL 7035	30334-001
		laboratory white (sim. RAL 9016)	30334-005
K90.196.120.MC.FWAC	without interior equipment, with TSA, door open arrest system, hazardous substances center (including lockable storage box on shelf)	light grey RAL 7035	30336-001

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
K90.196.120.MF.FWAC		
Left: 3x shelf, 1x perforated insert, 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33838
Left: 3x shelf, 1x perforated insert, 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	stainless steel, panel melamine resin-coated/PP grey	30338
Left: 3x tray shelf (V=11.5L), 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	34257
Left: 3x tray shelf (V=11.5L), 1x bottom collecting sump (V=22.0L) Top: 3x pull-out shelf (V=11.0L) Bottom: 3x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	37687
Left: 6x drawer (V=4.5L) Top right: 3x pull-out shelf (V=11.0L) Bottom right: 3x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33839
Left: 6x drawer (V=4.5L) Top right: 3x pull-out shelf (V=11.0L) Bottom right: 3x pull-out shelf (V=11.0L)	stainless steel, panel melamine resin-coated/PP grey	33840
K90.196.120.MC.FWAC		
Left: 1x storage box, 2x shelf, 1x perforated insert, 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33841
Left: 1x storage box, 2x shelf, 1x perforated insert, 1x bottom collecting sump (V=22.0L) Top right: 2x pull-out shelf (V=11.0L) Bottom right: 2x pull-out shelf (V=11.0L)	stainless steel, panel melamine resin-coated/PP grey	30755
Left: 1x storage box, 4x drawer (V=4.5L) Top right: 3x pull-out shelf (V=11.0L) Bottom right: 3x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33842
Left: 1x storage box, 4x drawer (V=4.5L) Top right: 3x pull-out shelf (V=11.0L) Bottom right: 3x pull-out shelf (V=11.0L)	stainless steel, panel melamine resin-coated/PP grey	33843

Accessories for these cabinet models:

Accessories		Material	W x D x H (mm)	Order No.
	Storage box left hinged	sheet steel powder-coated RAL 7035	380 x 420 x 360	30029
	Sump inliner	PP grey	353 x 406 x 88*	9706
	Sump inliner for drawer supply	PP undyed	318 x 449 x 66*	18472
	Anti-slip rubber mat for drawer supply	black	495 x 340 x 1	8719
	Pipe lead-through	sheet steel powder-coated RAL 7035	182 x 104 x 48	30035
	Box for chemicals	PP blue	410 x 300 x 260	30038
	Document holder DIN A5	polystyrene		30793

Ventilation	Order No.
Extraction unit without exhaust air monitoring	14218

* W x D = usable floor space

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K-LINE

PULL-OUT SHELF
Sturdy construction with removable plastic sump

SHELF
Height adjustable (32 mm increments), with 30 mm upstand

BOTTOM COLLECTING SUMP
High storage capacity, optimal for the storage of larger containers, safe collection of leakages

K-LINE | K-UB-90

Combi under bench cabinets for the unrestricted storage of flammable and aggressive hazardous materials in working areas

1

Fits perfectly under fume cupboards
Cabinet makes perfect use of the space available under the fume cupboard.

2

Two in one combi under bench cabinet
Safe storage of slightly aggressive and flammable hazardous materials in one cabinet. Separated storage compartments with vertical dividing wall.

3

Cylinder lock with locking status indicator
Doors lockable with cylinder lock, locking status indicator (red/green) signals the locking status of the cabinet.

4

Ventilation
Integrated air ducts ready for connection (DN 50) to a technical exhaust system can be used for the extraction of hazardous substances vapours. The potential formation of explosive atmospheres or harmful vapours is safely prevented.
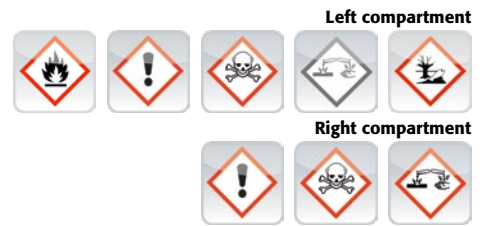
Ø 50

5

Mobile
Optionally available castors with plinth; simple movement of the cabinet. Height adjustable to various laboratory furniture systems due to attachment covers.

- **Fire resistance of 90 minutes** (type 90),
type-tested in accordance with EN 14470-1

- Conformity in accordance with the
requirements of **EN 16121** and **16122**
- Requirements and test methods for safety,
strength, durability and stability.

- **Excellent products with special
manufacturer warranty**
- Extended **manufacturer warranty of up
to 5 years** in combination with the asecos
BASICPlus tariff
- You can find our service tariffs from page 494

Model K90.060.140.050.UB.3T
Order No. 30377-001-33846

Model K90.060.110.050.UB.2T
Order No. 30365-001-33844

Model K90.060.110.050.UB.ST
Order No. 30358-001-35363

Technical data		K90.060.140.050.UB.ST K90.060.140.050.UB.3T	K90.060.110.050.UB.ST K90.060.110.050.UB.2T
External dimensions W x D x H	mm	1402 x 502 x 601	1102 x 502 x 601
Internal dimensions W x D x H	mm	left: 770 x 380 x 502 right: 440 x 468 x 562	left: 470 x 381 x 502 right: 440 x 468 x 562
Weight without interior equip.	kg	197	155
Air change **10 times**	m³/h	3	2
Diff. pressure (air change **10 times EK5/AK4**)	Pa	1	1

Usable storage heights
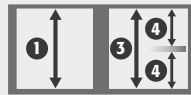
Left compartment
❶ mm 460
❷ mm 400*

Right compartment
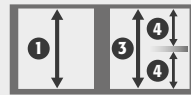❸ mm 495**
❹ mm 280 / 195***

* bottom collecting sump with perforated insert
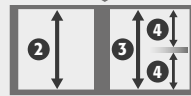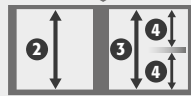** 1 pull-out shelf
*** 2 pull-out shelves

K90.060.110.050.UB.ST
K90.060.110.050.UB.2T

K90.060.140.050.UB.ST
K90.060.140.050.UB.3T

Main features

Perfect for installation under fume cupboards or hazardous materials workplaces

Safe segregated storage due to hermetically separated compartments

You will find technical drawings for these cabinet models from page 174

Model	Information / equipment	Colour	Order No.
K90.060.140.050.UB.ST	without interior equipment, with 1 drawer, 1 wing door	light grey RAL 7035	30370-001
K90.060.140.050.UB.3T	without interior equipment, with 3 wing doors	light grey RAL 7035	30377-001
K90.060.110.050.UB.ST	without interior equipment, with 1 drawer, 1 wing door	light grey RAL 7035	30358-001
K90.060.110.050.UB.2T	without interior equipment, with 2 wing doors	light grey RAL 7035	30365-001

Interior equipment packages (can only be ordered in combination with the cabinet)	Material	Order No.
K90.060.140.050.UB.ST		
Left: 1x drawer (V=17.5L) Right: 1x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	35364
Left: 1x drawer (V=17.5L) Right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	35365
K90.060.140.050.UB.3T		
Left: 1x perforated insert, 1x bottom collecting sump (V=16.5L) Right: 1x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33846
Left: 1x perforated insert, 1x bottom collecting sump (V=16.5L) Right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33847
K90.060.110.050.UB.ST		
Left: 1x drawer (V=10.0L) Right: 1x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	35362
Left: 1x drawer (V=10.0L) Right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	35363
K90.060.110.050.UB.2T		
Left: 1x perforated insert, 1x bottom collecting sump (V=10.0L) Right: 1x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33844
Left: 1x perforated insert, 1x bottom collecting sump (V=10.0L) Right: 2x pull-out shelf (V=11.0L)	sheet steel powder-coated RAL 7035, panel melamine resin-coated/PP grey	33845

Accessories for these cabinet models:

Accessories	Material	W x D x H (mm)	Order No.
All models with width 1400 mm			
Pipe lead-through	sheet steel powder-coated RAL 7035	182 x 104 x 48	30035
Castors with plinth height = 30 mm	sheet steel powder-coated RAL 7015		31359
All models with width 1100 mm			
Pipe lead-through	sheet steel powder-coated RAL 7035	182 x 104 x 48	30035
Castors with plinth height = 30 mm	sheet steel powder-coated RAL 7015		31358

Ventilation	Order No.
Extraction unit without exhaust air monitoring	14218

Can't find a suitable interior equipment package for your application?
Contact us by phone at +49 6051 9220-0 or by e-mail at
*info@asecos.com – together with our experts you will find the right solution.*

PULL-OUT SHELVES
Sturdy construction with removable plastic sump

BOTTOM COLLECTING SUMP
for the safe collection of leakages, can be used as storage level when combined with perforated insert

Safety storage cabinets only provide reliable protection ...

... for humankind, environment and property when they are maintained professionally! With the **asecos services** you are always on the safe side.
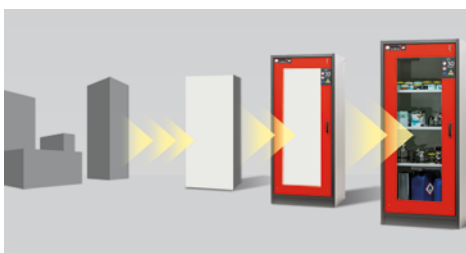
ARE YOU LOOKING FOR AN APPROPRIATE STORAGE SOLUTION FOR HAZARDOUS MATERIALS?

Our optimised online product configurator helps you, step by step, to find the suitable safety storage cabinet.
Take the test: **www.asecos-configurator.com**

K-LINE