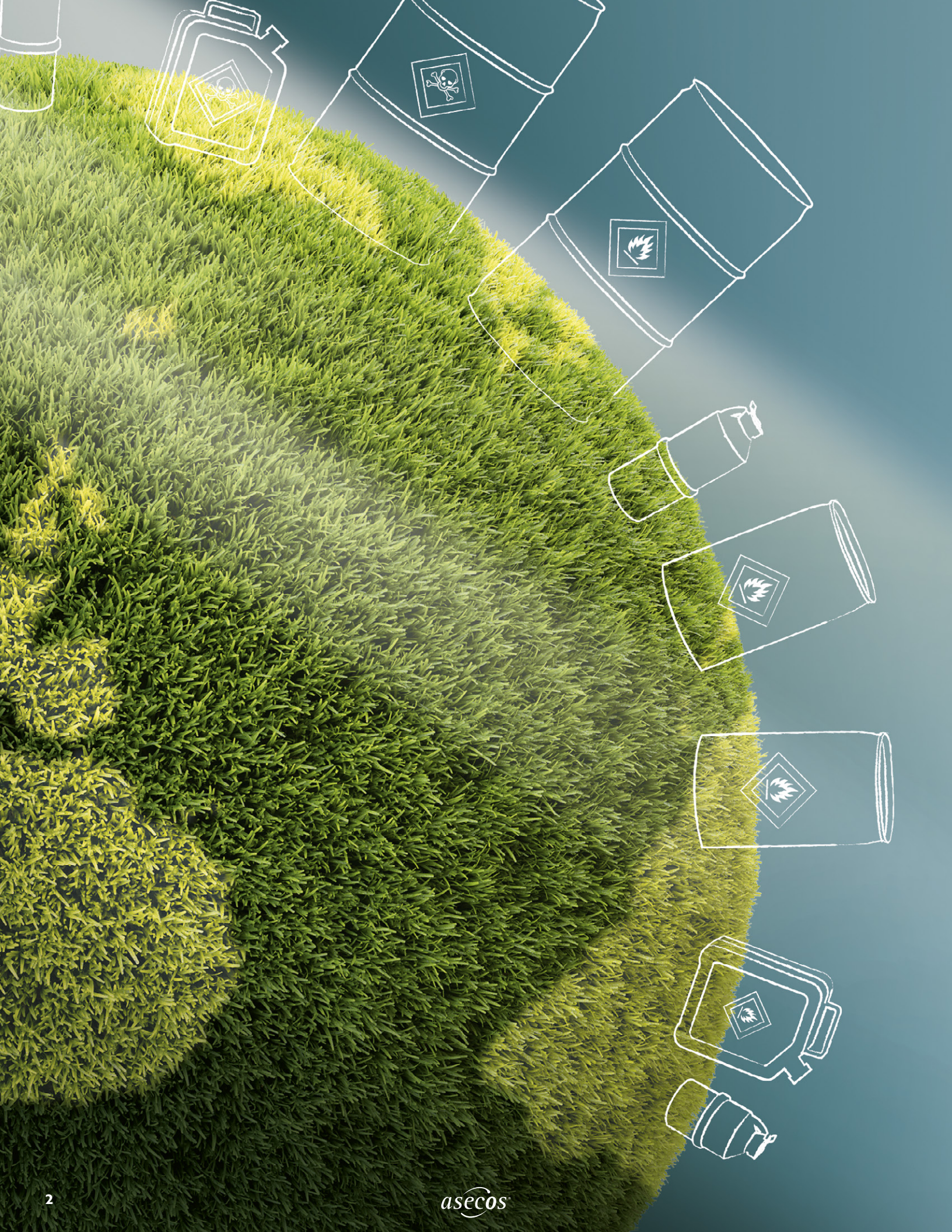




Safety and environmental protection

Flammable Storage Cabinets with enhanced fire performance for high risk areas





THE WORLD THAT MOVES US REVOLVES AROUND STORING HAZARDOUS MATERIALS

asecos take great pride in assisting to create new safety standards and ultimately reducing the number and severity of accidents, through the use of approved asecos products.

The best possible protection of humankind and the environment is our number one priority.

Driven by this desire, we developed the first cabinet with a certified 90-minute fire resistance for the storage of flammable liquids in 1994. What was a technical revolution in the industry at that time has now become the technical standard across Europe and is gaining more and more acceptance overseas.

Unfortunately, in many regions across the globe, flammable cabinets with a simple sheet-steel construction are still being used regardless of the situation or application.

Most Fire and Safety Officers do not know what will happen to their flammable chemicals stored in sheet steel cabinets in the event of a fire. Depending on the construction, these units are likely to fail in less than 10 minutes of fire exposure and the contents become part

of the fire load, leading to severe fires and explosions. A safe evacuation is hardly possible in such a short amount of time, especially in high risk areas.

Meeting minimum legal requirements, which were set many years ago, is just not good enough for us. Our mission is to create awareness about the necessity of upgrading the level of safety and make the cabinets fit for the challenges of the 21st century workplace.

ASECOS KEY BENEFITS

- »» **Free-standing** and **under counter** units
- »» **Fire resistance** category **90 minutes**
- »» **UL(C) 1275, FM 6050** and **EN 14470-1** approvals
- »» **Self-closing** and **self-sealing doors** and **vent connections** in the event of a fire
- »» **Large variety** of **interior configurations** and **unique drawer systems**
- »» **May qualify** as **mobile high hazard room (*)**
- »» **May allow increase** of **maximum allowable quantities (*)**

*subject to local AHJ approval



BE ON THE SAFE SIDE

When purchasing a safety storage cabinet ALWAYS CONSIDER

1 Distance

How long does it take for the fire fighters to reach your premises?

2 Surroundings

Where is your company located?

3 Evacuation Times

How long does it take for the employees to leave the building?

4 Economic Impact

*What economic damage will your company suffer if the building is completely destroyed?
(value of your installations, downtimes etc.)*



Cabinet Comparison:
WATCH THE VIDEO:
www.youtube.com/asecoschannel

THE ADVANTAGES OF SAFETY STORAGE CABINETS

WITH ENHANCED FIRE PERFORMANCE

The comparison of a double-wall steel cabinet with an EN Type 90 cabinet demonstrates impressive differences.



1 Cabinet structure

EN TYPE 90 CABINET: Multiple layers of fire-proof calcium sulphate, encased in sheet steel.

STEEL CABINET: Two layers of sheet steel (18 gauge in most cases) with air in between.

2 Fire test

EN TYPE 90 CABINET: The cabinet is fire tested for 90 minutes. Extended resistance against a temperature increase means more time for the personnel to evacuate

and for the fire fighters/rescue services to do their jobs safely.

STEEL CABINET: Cabinets are fire tested for only 10 minutes and have no formal fire rating.

3 Maximum permissible internal temperature increase

EN TYPE 90 CABINET: Max. 180°C (356 °F) during the entire duration of the fire test = 90 minutes.

STEEL CABINET: Max. 325 °F (approx. 163 °C) in the first 10 minutes of exposure to a fire.

4 Self-closing doors

EN TYPE 90 CABINET: Mandatory. If no door open arrest system is used the doors must close automatically from every position when released.

STEEL CABINET: Mandatory.

5 Self-latching doors

EN TYPE 90 CABINET: Mandatory. One-point latching sufficient. Calcium sulfate keeps structural integrity when heated.

STEEL CABINET: *Mandatory. Three-point latching required to hold the door in place when the metal starts bend in the fire.*

6 Door open arrest system

EN TYPE 90 CABINET: Optional. Built-in. Doors must close at approx. 122 °F maximum (50 °C).

STEEL CABINET: *Optional. To be inserted manually. Doors must close at 212 °F (100 °C) maximum.*

7 Bottom collecting sump

EN TYPE 90 CABINET: Mandatory. Capacity is relative to model size. It must be at least 10 % of the volume of all containers stored or a minimum of 110 % of the largest container. Whichever volume is greater. Sumps are removable for easy cleaning.

STEEL CABINET: *Mandatory. No capacities mentioned. Only minimum height specified, regardless of capacity. Higher risk of overflow. Sumps mostly built-in and cannot be easily cleaned.*

8 Perforated insert in the sump

EN TYPE 90 CABINET: Optional. Available for sumps and drawers. If sumps/drawers are used as a storage level, the stored containers may reduce the retention, which then could lead to an overflow when liquids are spilled. Perforated inserts keep the retention volume.

STEEL CABINET: *Not common.*

9 Fusible Links

EN TYPE 90 CABINET: Fusible links at door open arrest system, vent connections and drawers. A mechanical fusible link is a device consisting of two strips of metal soldered together with a fusible alloy that separates at a set temperature.

STEEL CABINET: *Fusible links only at door open arrest system (optional). Manual insertion by user.*

10 Insulation

EN TYPE 90 CABINET: Multiple layers of calcium sulfate dihydrate.

STEEL CABINET: *Air.*

11 Seals

EN TYPE 90 CABINET: All gaps and openings (including air channels for venting) are lined with intumescent materials. When exposed to high heat, these materials expand and seal the unit hermetically to avoid heat entering the cabinet.

STEEL CABINET: *None.*

12 Vent connections

EN TYPE 90 CABINET: Mandatory. Located on top of the unit - or at the rear (under counter units). Vent connections are self-closing in the event of a fire to prevent heat transfer.

STEEL CABINET: *Mandatory. Manual closing (bungs).*

13 Storage volume

EN TYPE 90 CABINET: Usable storage space for each shelf/drawer is stated instead of the total interior volume of the cabinet or the number of a certain type of safety can. Indicating the volume per shelf/drawer is a more practical approach especially for environments where different bottle and container sizes are used (e.g. laboratories).

STEEL CABINET: *In most cases the storage volume is stated in gallons based on the number of standard 5 gallon safety cans that can fit. Translating into other bottle and container sizes can be challenging.*

14 Third party testing

EN TYPE 90 CABINET: Mandatory. Only accredited testing labs can certify cabinets according to EN 14470-1.

STEEL CABINET: *Not mandatory. However, third party testing is quite common among manufacturers.*

15 Durability tests

EN TYPE 90 CABINET: Not mandatory. Manufacturers typically test according to EN 16122 (standard for non-domestic storage furniture). 40.000 wear-free opening and closing cycles are the minimum requirement for compliance. GS approval is another option, requiring at least 50.000 successful opening and closing cycles.

STEEL CABINET: *Not mandatory. Not common.*

Type 90 cabinets according to EN 14470-1 make it possible to further reduce the hazards beyond what would be provided by double walled steel cabinets and open up new design possibilities without compromising on fire safety.


JENSEN HUGHES
Advancing the Science of Safety

PLEASE SEE
OUR **WHITEPAPER** FOR
FURTHER INFORMATION:



www.asecos.com/Whitepaper-flammable-cabinets_Jenson-Hughes.pdf

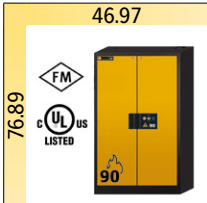
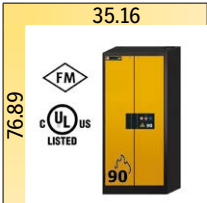
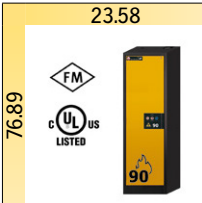


Q-LINE

Q-LINE

FLAMMABLE STORAGE CABINETS FOR HIGH RISK AREAS WITH
EXTRA STURDY CONSTRUCTION

Q-CLASSIC-90 model class with wing doors and door open arrest system, additionally tested in accordance with FM standard 6050 and UL/ULC standard 1275

46.97	35.16	23.58
		
Q90.195.120.FU.WDAS	Q90.195.090.FU.WDAS	Q90.195.060.FU.WDAS



- »» **Free standing** units
- »» **Fire resistance** category **90 minutes**
- »» **EN 14470-1, UL(C) 1275** and **FM 6050 approvals**
- »» **Door open arrest system** for a convenient and safe removal or storage of containers
- »» **Self-closing** doors in the event of a fire
- »» **Self-sealing** doors and vent connections in the event of a fire
- »» May qualify as **mobile high hazard room** (*)
- »» May allow **increase of maximum allowable quantities** (*)

*subject to local AHJ approval



- **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** (EN 16121:2013+A1:2017)



- tested in accordance with **FM Standard 6050** and are compliant to NFPA Code 30, NFPA 1 Fire Code, OSHA



- tested in accordance with **Underwriters Laboratories-Standard 1275** and **ULC / ORD - C1275-84-Standard**.





Q-CLASSIC-90 - TRIPLE CERTIFIED



Flammable storage cabinet

Q-CLASSIC-90 model Q90.195.120.FU.WDAS

body color anthracite gray (RAL 7016), with wing doors in warning yellow (RAL 1004), interior equipment with 3 x tray shelf, 1 x perforated insert, 1 x bottom collecting sump (sheet steel powder-coated)

Order No. 37584-040-37594



Flammable storage cabinet

Q-CLASSIC-90 model Q90.195.120.FU.WDAS

body color anthracite gray (RAL 7016), with wing doors in light gray (RAL 7035), interior equipment with 3 x tray shelf, 1 x perforated insert, 1 x bottom collecting sump (sheet steel powder-coated)

Order No. 37584-041-37594



Flammable storage cabinet

Q-CLASSIC-90 model Q90.195.090.FU.WDAS

body color anthracite gray (RAL 7016), with wing doors in warning yellow (RAL 1004), interior equipment with 3 x tray shelf, 1 x perforated insert, 1 x bottom collecting sump (sheet steel powder-coated)

Order No. 37585-040-37595

Order No. 37585-041-37595 (wing doors in light gray)



Safety storage cabinet

Q-CLASSIC-90 model Q90.195.060.FU.WDAS

body color anthracite gray (RAL 7016), with wing door in warning yellow (RAL 1004), interior equipment with 3 x tray shelf, 1 x perforated insert, 1 x bottom collecting sump (sheet steel powder-coated)

Order No. 37586-040-37596

Order No. 37586-041-37596 (wing door in light gray)



Safe and approved storage of flammable hazardous substances in working areas

- Fire resistance 90 minutes
- Furnace tested (type test) in accordance with EN 14470-1
- FM approval
- UL/ULC 1275 listed
- GS approval
- CE conformity
- EN 16121/16122 conformity

Function / construction

- Robust construction with triple hinged door, scratch- and impact-resistant surface, easy to clean
- Cabinet body in anthracite gray (RAL 7016), doors in warning yellow (RAL 1004) or light gray (RAL 7035)
- Integrated air ducts ready for connection (Ø 3") to a technical exhaust system
- Adjusting aids to compensate for uneven floor

Wing door

- Doors lockable with cylinder locking (integration in a locking system possible) and locking state indicator (red/green)
- Door open arrest system for a convenient and safe removal or storage of containers
- Self-closing and self-sealing in the event of fire with integrated thermal release system

Transport

- Integrated transport base

Standard interior equipment

- 3 tray shelves, 1 perforated insert, 1 bottom collecting sump (sheet steel powder-coated)

Available colors



Tray Shelf

made of sheet steel,
powder-coated RAL 7035

Order No. 30099
Q90.195.060.FU.WDAS

Order No. 30828
Q90.195.090.FU.WDAS

Order No. 30028
Q90.195.120.FU.WDAS



Technical data		Q90.195.120.FU.WDAS	Q90.195.090.FU.WDAS	Q90.195.060.FU.WDAS
External dimensions W x D x H	inch	46.97 x 24.21 x 76.89	35.16 x 24.21 x 76.89	23.58 x 24.21 x 76.89
Internal dimensions W x D x H	inch	41.34 x 20.55 x 64.84	29.53 x 20.55 x 64.84	17.72 x 20.55 x 64.84
Depth with open doors	inch	45.87	39.96	44.41
Weight without interior equipment	lb	935	757	585
Extraction air	inch	Ø 3	Ø 3	Ø 3
Minimum exhaust air quantity 10 times	cfm	5.29	3.53	2.35
Differential pressure 10 times air change (EK5/AK4)	mbar	0.05	0.05	0.05
Maximum load	lb	1322	1322	1322
Distributed load	lb/ft²	108	133	182
Max. shelf load (evenly distributed)	lb	330.69	330.69	330.69
Capacity bottom collecting sump	US gal	8.71	5.81	5.81
Capacity of cabinet	US gal	75	50	25
Transport base				
Entry height transport base	inch	3.54	3.54	3.54
Entry width transport base	inch	44.09	32.28	20.71



UB-LINE

SAFETY STORAGE CABINETS FOR INTEGRATION INTO FUME HOODS
OR WORK BENCHES

UB-S-90 model class with drawers –
depth 22.60" and 19.76"

55.20	43.39	43.39	35.16	23.35
UB90.060.140.UL2S UB90.060.140.050.UL2S	UB90.060.110.ULS UB90.060.110.050.ULS	UB90.060.110.UL2S UB90.060.110.050.UL2S	UB90.060.089.ULS UB90.060.089.050.ULS	UB90.060.059.ULS UB90.060.059.050.ULS

UB-T-90 model class with wing doors –
depth 22.60" and 19.76"

43.39	35.16	23.35	55.20	43.39
UB90.060.110.UL2T UB90.060.110.050.UL2T	UB90.060.089.UL2T UB90.060.089.050.UL2T	UB90.060.059.ULT UB90.060.059.050.ULT	UB90.060.140.ULS2T UB90.060.140.050.ULS2T	UB90.060.110.ULST UB90.060.110.050.ULST

UB-ST-90 model class with wing doors and
drawer – depth 22.60" and 19.76"



- »» **Under counter** units
- »» **Fire resistance** category **90 minutes**
- »» **EN 14470-1, UL(C) 1275 approvals**
- »» **Self-closing** and **self-sealing** doors and vent connections in the event of a fire
- »» **Unique drawer systems**
- »» May qualify as **mobile high hazard room** (*)
- »» May allow **increase of maximum allowable quantities** (*)

*subject to local AHJ approval



- **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** (EN 16121:2013+A1:2017)



- tested in accordance with **Underwriters Laboratories-Standard 1275** and **ULC / ORD - C1275-84-Standard**.





UB-S-90 / UB-T-90 - UL/ULC 1275 LISTED



Flammable under counter unit

UB-S-90 model UB90.060.059.UL.S

light gray (RAL 7035), interior equipment with 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37004-001-35286 + 31360



Flammable under counter unit

UB-T-90 model UB90.060.059.050.UL.T

Depth 19.76", light gray (RAL 7035), interior equipment with 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 36993-001-38921 + 31360



Flammable under counter unit

UB-T-90 model UB90.060.059.UL.T

light gray (RAL 7035), interior equipment with 1 x perforated insert, 1 x bottom collecting sump (sheet steel powder-coated), castors with plinth (height 1.18")

Order No. 37007-001-33763 + 31360



Flammable under counter unit

UB-T-90 model UB90.060.059.050.UL.T

Depth 19.76", light gray (RAL 7035), interior equipment with 1 x perforated insert, 1 x bottom collecting sump (sheet steel powder-coated), castors with plinth (height 1.18")

Order No. 36997-001-33765 + 31360



Safe and approved storage of flammable hazardous substances in working areas

- UL/ULC 1275 listed
- Furnace tested (type test) in accordance with EN 14470-1
- Fire resistance 90 minutes
- CE conformity
- GS approval
- EN 16121/16122 conformity

Function / construction

- Outer body and doors made of sheet steel, light gray (RAL 7035)
- Integrated air ducts ready for connection (Ø 2") to a technical exhaust system

Wing door and drawer

- Doors and drawers can be opened with minimal effort
- 135° opening of the wing doors
- Safe access to all containers, the interior of the drawer is completely visible
- Drawers are standard fitted with earthing wire incl. clamp and with seal welded sump
- Doors and drawers lockable with cylinder locking and locking state indicator
- Doors and drawers are self-closing and self-sealing in the event of fire

Standard interior equipment

- Sump integrated in the cabinet, load capacity 110 lb (cabinet with drawers)
- Castors with plinth
- Bottom collecting sump (cabinet / compartment with wing doors)
- Perforated insert



Stable — easy moving of the cabinet

Safe fixing of the cabinet — integrated locking mechanism

Flexible — height adjustment to various laboratory furniture

Castors with plinth (H=1.18")

made of sheet steel,
powder-coated RAL 7015



Technical data		UB90.060.059.UL.S	UB90.060.059.050.UL.S	UB90.060.059.UL.T	UB90.060.059.050.UL.T
External dimensions W x D x H	inch	23.35 x 22.60 x 23.62	23.35 x 19.76 x 23.62	23.35 x 22.60 x 23.62	23.35 x 19.76 x 23.62
Internal dimensions W x D x H	inch	18.50 x 17.80 x 19.76	18.50 x 15.04 x 19.76	18.50 x 17.80 x 19.76	18.50 x 15.04 x 19.76
Depth with open doors	inch	38.98	36.14	41.10	41.10
Weight without interior equipment	lb	265	243	265	243
Extraction air	inch	Ø 2	Ø 2	Ø 2	Ø 2
Minimum exhaust air quantity 10 times	cfm	0.58	0.58	0.58	0.58
Differential pressure 10 times air change (EK5/AK4)	mbar	0.01	0.01	0.01	0.01
Maximum load	lb	661.00	661.00	661.00	661.00
Distributed load	lb/ft²	91.00	94.00	91.00	94.00
Capacity of drawers	US gal	3.03	2.64		
Capacity of bottom collecting sump	US gal			3.17	2.64
Max. load of perforated insert	lb	165.00	165.00	165.00	165.00
Capacity of cabinet	US gal	8	7	8	7



UB-S-90 / UB-T-90 - UL/ULC 1275 LISTED



Flammable under counter unit

UB-S-90 model UB90.060.089.UL.S

light gray (RAL 7035), interior equipment with 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37024-001-35299 + 31361



Flammable under counter unit

UB-S-90 model UB90.060.089.050.UL.S

Depth 19.76", light gray (RAL 7035), interior equipment with 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37017-001-38922 + 31361



Flammable under counter unit

UB-T-90 model UB90.060.089.UL.2T

light gray (RAL 7035), interior equipment with 1 x perforated insert, 1 x bottom collecting sump (sheet steel powder-coated), castors with plinth (height 1.18")

Order No. 37020-001-33767 + 31361



Flammable under counter unit

UB-T-90 model UB90.060.089.050.UL.2T

Depth 19.76", light gray (RAL 7035), interior equipment with 1 x perforated insert, 1 x bottom collecting sump (sheet steel powder-coated), castors with plinth (height 1.18")

Order No. 37013-001-33769 + 31361



Safe and approved storage of flammable hazardous substances in working areas

- UL/ULC 1275 listed
- Furnace tested (type test) in accordance with EN 14470-1
- Fire resistance 90 minutes
- CE conformity
- GS approval
- EN 16121/16122 conformity

Function / construction

- Outer body and doors made of sheet steel, light gray (RAL 7035)
- Integrated air ducts ready for connection (Ø 2") to a technical exhaust system

Wing door and drawer

- Doors and drawers can be opened with minimal effort
- 135° opening of the wing doors
- Safe access to all containers, the interior of the drawer is completely visible
- Drawers are standard fitted with earthing wire incl. clamp and with seal welded sump
- Doors and drawers lockable with cylinder locking and locking state indicator
- Doors and drawers are self-closing and self-sealing in the event of fire

Standard interior equipment

- Sump integrated in the cabinet, load capacity 110 lb (cabinet with drawers)
- Castors with plinth
- Perforated insert
- Bottom collecting sump (cabinet / compartment with wing doors)



Stable — easy moving of the cabinet

Safe fixing of the cabinet — integrated locking mechanism

Flexible — height adjustment to various laboratory furniture

Castors with plinth (H=1.18")

made of sheet steel,
powder-coated RAL 7015



Technical data		UB90.060.089.UL.S	UB90.060.089.050.UL.S	UB90.060.089.UL.2T	UB90.060.089.050.UL.2T
External dimensions W x D x H	inch	35.16 x 22.60 x 23.62	35.16 x 19.76 x 23.62	35.16 x 22.60 x 23.62	35.16 x 19.76 x 23.62
Internal dimensions W x D x H	inch	30.35 x 17.80 x 19.76	30.35 x 15.04 x 19.76	30.35 x 17.80 x 19.76	30.35 x 15.04 x 19.76
Depth with open doors	inch	38.98	36.14	39.06	36.22
Weight without interior equipment	lb	309	276	309	276
Extraction air	inch	Ø 2	Ø 2	Ø 2	Ø 2
Minimum exhaust air quantity 10 times	cfm	0.58	0.58	0.58	0.58
Differential pressure 10 times air change (EK5/AK4)	mbar	0.01	0.01	0.01	0.01
Maximum load	lb	661	661	661	661
Distributed load	lb/ft²	63	64	63	64
Capacity of drawers	US gal	5.54	4.62		
Capacity of bottom collecting sump	US gal			5.28	4.35
Max. load of perforated insert	lb	165	165	165	165
Capacity of cabinet	US gal	11		11	9



UB-S-90 / UB-T-90 - UL/ULC 1275 LISTED



Flammable under counter unit

UB-S-90 model UB90.060.110.UL.S

light gray (RAL 7035), interior equipment with 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37054-001-35327 + 31358



Flammable under counter unit

UB-S-90 model UB90.060.110.050.UL.S

Depth 19.76", light gray (RAL 7035), interior equipment with 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37039-001-38923 + 31358



Flammable under counter unit

UB-S-90 model UB90.060.110.UL.2S

light gray (RAL 7035), interior equipment with 2 x drawer (sheet steel powder-coated), 2 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37047-001-35311 + 31358



Flammable under counter unit

UB-S-90 model UB90.060.110.050.UL.2S

Depth 19.76", light gray (RAL 7035), interior equipment with 2 x drawer (sheet steel powder-coated), 2 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37032-001-38924 + 31358



Flammable under counter unit

UB-T-90 model UB90.060.110.UL.2T

light gray (RAL 7035), interior equipment with 1 x perforated insert, 1 x bottom collecting sump (sheet steel powder-coated), castors with plinth (height 1.18")

Order No. 37050-001-33771 + 31358

Order No. 37035-001-33775 + 31358 (depth 19.76", light gray)



Flammable under counter unit

UB-ST-90 model UB90.060.110.UL.ST

light gray (RAL 7035), interior equipment with 1 x perforated insert, 1 x bottom collecting sump, 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37043-001-33773 + 31358

Order No. 37028-001-38924 + 31358 (depth 19.76", light gray)



Safe and approved storage of flammable hazardous substances in working areas

- UL/ULC 1275 listed
- Furnace tested (type test) in accordance with EN 14470-1
- Fire resistance 90 minutes
- CE conformity
- GS approval
- EN 16121/16122 conformity

Function / construction

- Outer body and doors made of sheet steel, light gray (RAL 7035)
- Integrated air ducts ready for connection (Ø 2") to a technical exhaust system

Wing door and drawer

- Doors and drawers can be opened with minimal effort
- 135° opening of the wing doors
- Safe access to all containers, the interior of the drawer is completely visible
- Drawers are standard fitted with earthing wire incl. clamp and with seal welded sump
- Doors and drawers lockable with cylinder locking and locking state indicator
- Doors and drawers are self-closing and self-sealing in the event of fire

Standard interior equipment

- Castors with plinth
- Bottom collecting sump (cabinet / compartment with wing doors)
- Sump integrated in the cabinet, load capacity 110 lb (cabinet with drawers)
- Perforated insert



Stable — easy moving of the cabinet

Safe fixing of the cabinet — integrated locking mechanism

Flexible — height adjustment to various laboratory furniture

Castors with plinth (H=1.18")

made of sheet steel,
powder-coated RAL 7015



Technical data		UB90.060.110.UL.2T	UB90.060.110.050.UL.2T	UB90.060.110.UL.ST	UB90.060.110.050.UL.ST
External dimensions W x D x H	inch	43.39 x 22.60 x 23.62	43.39 x 19.76 x 23.62	43.39 x 22.60 x 23.62	43.39 x 19.76 x 23.62
Internal dimensions W x D x H	inch	38.54 x 17.80 x 19.76	38.54 x 15.04 x 19.76	38.54 x 17.80 x 19.76	38.54 x 15.04 x 19.76
Depth with open doors	inch	43.19	40.35	43.19	40.35
Weight without interior equipment	lb	397	353	397	353
Extraction air	inch	Ø 2	Ø 2	Ø 2	Ø 2
Differential pressure 10 times air change (EK5/AK4)	mbar	0.01	0.01	0.01	0.01
Maximum load	lb	661	661	661	661
Distributed load	lb/ft²	56	56	56	56
Capacity of drawers	US gal			3.03	2.64
Max. load of perforated insert	lb	165	165	165	165
Capacity of cabinet	US gal	17	15	17	15

Technical data		UB90.060.110.UL.S	UB90.060.110.050.UL.S	UB90.060.110.UL.2S	UB90.060.110.050.UL.2S
External dimensions W x D x H	inch	43.39 x 22.60 x 23.62	43.39 x 19.76 x 23.62	43.39 x 22.60 x 23.62	43.39 x 19.76 x 23.62
Internal dimensions W x D x H	inch	38.54 x 17.80 x 19.76	38.54 x 15.04 x 19.76	38.54 x 17.80 x 19.76	38.54 x 15.04 x 19.76
Depth with open doors	inch	38.98	36.14	38.98	36.14
Weight without interior equipment	lb	397	353	397	353
Extraction air	inch	Ø 2	Ø 2	Ø 2	Ø 2
Differential pressure 10 times air change (EK5/AK4)	mbar	0.01	0.01	0.01	0.01
Maximum load	lb	661	661	661	661
Distributed load	lb/ft²	56	56	56	56
Capacity of drawers	US gal	7.13	5.94	3.03	2.64
Max. load of perforated insert	lb	165	165	165	165
Capacity of cabinet	US gal	17		17	



UB-S-90 / UB-T-90 - UL/ULC 1275 LISTED



Flammable under counter unit

UB-S-90 model UB90.060.140.UL.2S

light gray (RAL 7035), interior equipment with 2 x drawer (sheet steel powder-coated), 2 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37066-001-35345 + 31359



Flammable under counter unit

UB-S-90 model UB90.060.140.050.UL.2S

Depth 19.76", light gray (RAL 7035), interior equipment with 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37058-001-38925 + 31359



Flammable under counter unit

UB-ST-90 model UB90.060.140.UL.S2T

light gray (RAL 7035), interior equipment with 1 x perforated insert, 1 x bottom collecting sump, 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37070-001-33777 + 31359



Flammable under counter unit

UB-ST-90 model UB90.060.140.050.UL.S2T

Depth 19.76", light gray (RAL 7035), interior equipment with 1 x perforated insert, 1 x bottom collecting sump, 1 x drawer (sheet steel powder-coated), 1 x perforated insert (stainless steel), castors with plinth (height 1.18")

Order No. 37062-001-33779 + 31359



Safe and approved storage of flammable hazardous substances in working areas

- UL/ULC 1275 listed
- Furnace tested (type test) in accordance with EN 14470-1
- Fire resistance 90 minutes
- CE conformity
- GS approval
- EN 16121/16122 conformity

Function / construction

- Outer body and doors made of sheet steel, light gray (RAL 7035)
- Integrated air ducts ready for connection (Ø 2") to a technical exhaust system

Wing door and drawer

- Doors and drawers can be opened with minimal effort
- 135° opening of the wing doors
- Safe access to all containers, the interior of the drawer is completely visible
- Drawers are standard fitted with earthing wire incl. clamp and with seal welded sump
- Doors and drawers lockable with cylinder locking and locking state indicator
- Doors and drawers are self-closing and self-sealing in the event of fire

Standard interior equipment

- Castors with plinth
- Bottom collecting sump (cabinet / compartment with wing doors)
- Perforated insert
- Sump integrated in the cabinet, load capacity 110 lb (cabinet with drawers)



Stable — easy moving of the cabinet

Safe fixing of the cabinet — integrated locking mechanism

Flexible — height adjustment to various laboratory furniture

Castors with plinth (H=1.18")

made of sheet steel,
powder-coated RAL 7015



SUCCESSFULLY
TESTED IN ACCORDANCE
WITH UL/ULC 1257



SELECTED MODELS
AVAILABLE FROM STOCK

Technical data		UB90.060.140.UL.2S	UB90.060.140.UL.S2T	UB90.060.140.050.UL.S2T	UB90.060.140.050.UL.2S
External dimensions W x D x H	Inch	55.20 x 22.60 x 23.62	55.20 x 22.60 x 23.62	55.20 x 19.76 x 23.62	55.20 x 19.76 x 23.62
Internal dimensions W x D x H	Inch	50.35 x 17.80 x 19.76	50.35 x 17.80 x 19.76	50.35 x 15.04 x 19.76	50.35 x 15.04 x 19.76
Depth with open doors	inch	38.98	38.98	36.14	36.14
Weight without interior equipment	lb	508	508	452	452
Extraction air	inch	Ø 2	Ø 2	Ø 2	Ø 2
Minimum exhaust air quantity 10 times	cfm	1.76	1.76	1.76	1.76
Differential pressure 10 times air change (EK5/AK4)	mbar	0.01	0.01	0.01	0.01
Maximum load	lb	661	661	661	661
Distributed load	lb/ft²	49	49	49	49
Capacity of drawers	US gal	5.54/3.03	3.03	2.64	4.62/2.64
Capacity of bottom collecting sump	US gal		5.28	4.35	
Max. load of perforated insert	lb	165	165	165	165
Capacity of cabinet	US gal	22	22	17	17

STORAGE OF COMPRESSED GAS CYLINDERS – THIS IS HOW DANGEROUS IT CAN BE

The experiments in our video show how quickly unprotected gas cylinders can explode and what devastating effects such explosion can have!

WATCH THE VIDEO:

www.youtube.com/asecoschannel





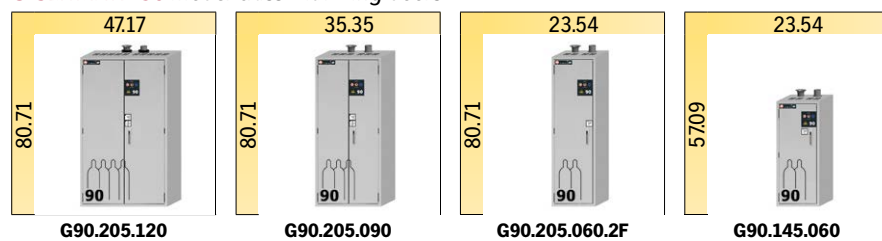


G-LINE

G-LINE

COMPRESSED GAS CYLINDER STORAGE CABINETS FOR HIGH RISK
AREAS WITH EXTRA STURDY CONSTRUCTION

G-ULTIMATE-90 model class with wing doors





- >>> **Free standing** units
- >>> **Fire resistance** category **90 minutes**
- >>> **EN 14470-2**
- >>> **Self-sealing** doors and vent connections in the event of a fire
- >>> May qualify as **mobile high hazard room** (*)
- >>> May allow **increase of maximum allowable quantities** (*)

*subject to local AHJ approval



- **Fire resistance 90 minutes** (type G90), type-tested in accordance with EN 14470-2



- **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** (EN 16121:2013+A1:2017)





Gas cylinder cabinet

G-ULTIMATE-90 model G90.205.120

for 4 x 50-litre gas cylinders, light gray (RAL 7035), interior equipment with 1 x standard interior equipment gas cylinders (sheet steel galvanised and powder coated)

Order No. 30657-001-30658

Order No. 30657-005-30658 (Laboratory white (sim. RAL 9016))



Gas cylinder cabinet

G-ULTIMATE-90 model G90.205.090

for 3 x 50-litre gas cylinders, light gray (RAL 7035), interior equipment with 1 x standard interior equipment gas cylinders (sheet steel galvanised and powder coated)

Order No. 30667-001-30668

Order No. 30667-005-30668 (Laboratory white (sim. RAL 9016))



Gas cylinder cabinet

G-ULTIMATE-90 model G90.205.060.2F

for 2 x 50-litre gas cylinders, light gray (RAL 7035), interior equipment with 1 x standard interior equipment gas cylinders (sheet steel galvanised and powder coated)

Order No. 30678-001-30682

Order No. 30678-005-30682 (Laboratory white (sim. RAL 9016))

Order No. 30678-884-30682 (Light gray, with F90 glassfronted wing door)

Order No. 30678-885-30682 (Laboratory white (sim. RAL 9016), with F90 glassfronted wing door)



Gas cylinder cabinet

G-ULTIMATE-90 model G90.145.060

for 2 x 10-litre gas cylinders, light gray (RAL 7035), interior equipment with 1 x standard interior equipment gas cylinders (sheet steel galvanised and powder coated)

Order No. 30689-001-30691

Order No. 30689-005-30691 (Laboratory white (sim. RAL 9016))



Safe and approved storage of flammable or toxic gases in working areas

- Fire resistance 90 minutes
- Furnace tested (type test) in accordance with EN 14470-2
- GS approval
- CE conformity
- EN 16121/16122 conformity

Function / construction

- Easy installation of fittings and pipes — large interior height, many lead-through possibilities on the top of the cabinet
- Outer body and doors made of sheet steel, light gray (RAL 7035) or laboratory white (sim. RAL 9016)
- Integrated air ducts ready for connection to a technical exhaust system
- Complete and uniform ventilation of the cabinet interior from the bottom to the top
- Adjusting aids to compensate for uneven floor

Wing door

- Doors lockable with cylinder locking (integration in locking system possible)

Standard interior equipment

- Standard interior equipment – complete with mounting rails, rolling ramp, cylinder retainer and matching tension belts
- Cylinder retainer over the entire cabinet width
- Lateral cylinder retainer - for two 10-litre cylinders, alternatively also in height-adjustable version (no tools required) (not available for model G90.205.060.2F)

Gas Cylinder Trolley
for one 50-litre gas cylinder
W x D x H (inch):
12.59 x 13.18 x 42.91
Order No. 26294



Lateral Cylinder Retainer
for two 10-litre cylinders,
height-adjustable, made of sheet
steel (powder-coated RAL 7035)

Order No. 30648



Technical data		G90.205.120	G90.205.090	G90.205.060.2F	G90.145.060
External dimensions W x D x H	Inch	47.17 x 24.21 x 80.71	35.35 x 24.21 x 80.71	23.54 x 24.21 x 80.71	598 x 615 x 1450
Internal dimensions W x D x H	Inch	41.14 x 15.75 x 73.15	29.33 x 16.73 x 73.15	18.78 x 16.73 x 73.15	445 x 425 x 1246
Depth with open doors	inch	48.74	42.91	44.69	44.69
Weight without interior equipment	lb	1345	1081	805	613
Maximum load	lb	1322	1322	1322	1322
Distributed load	lb/ft²	127	153	204	185
Extraction air	inch	Ø 3	Ø 3	Ø 3	
Minimum exhaust air quantity 10 times	cfm	4.70	3.53	2.35	1.17
Differential pressure 10 times air change	mbar	0.05	0.05	0.05	0.05
Minimum exhaust air quantity 120 times	cfm	54.73	38.84	26.48	16.48
Differential pressure 120 times air change	mbar	0.49	0.42	0.45	0.18

LITHIUM-ION BATTERIES – NOT AS HARMLESS AS THEY SEEM

Lithium-ion batteries are very powerful energy storage solutions, and are being used more and more in tools, gardening equipment and vehicles – especially bicycles – and many other applications thanks to their compact design.

As practical and efficient as this battery technology is, and as harmless as it seems to use, it does harbour safety risks that shouldn't be underestimated. In particular, lithium-ion batteries pose an increased risk of fire and bursting. Thanks to their very high energy density, they can spontaneously combust or become unstable in certain circumstances, and can explode if heated.

CONCLUSION: The risk of a fire increases when lithium-ion batteries are left unattended to charge!

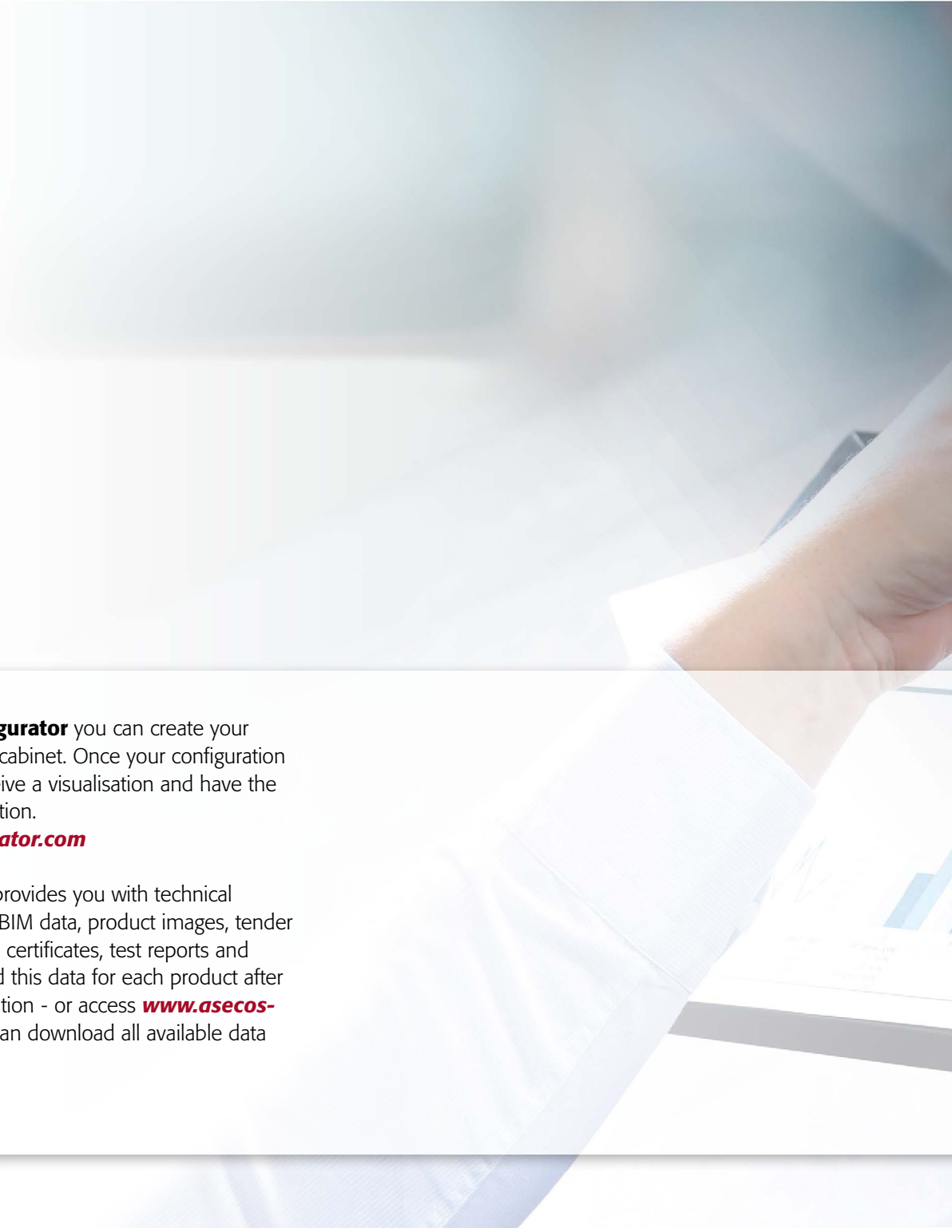
Storing and charging lithium-ion batteries safely with Type 90 storage cabinets of the ION-LINE.

www.asecos-configurator.com





ASECOS CONFIGURATOR AND SPECIFICATIONS

A person wearing a white lab coat is holding a document that features a bar chart. The background is a blurred office or laboratory setting.

With our **product configurator** you can create your individual safety storage cabinet. Once your configuration is complete you will receive a visualisation and have the option to ask for a quotation.

www.asecos-configurator.com

Our new online service provides you with technical specifications, drawings, BIM data, product images, tender texts, operating manuals, certificates, test reports and much more. You can find this data for each product after completing the configuration - or access **www.asecos-specs.com** where you can download all available data centrally.



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