

Model System Container

So that you can select the right solution for a particular application, these pages show an overview of the model range and variants in our System Containers range. We would also be pleased to offer advice on the telephone or an on-site visit.

What needs to be stored?

The Storage Containers equipment is determined by the hazardous substances to be stored. Integral spill pallets ensure the safe retention of any leaked fluids. If corrosive materials need to be stored, plastic or stainless steel spill pallets can be used as they offer optimum resistance to such substances. All Storage Containers are designed with natural ventilation as standard to allow storage of flammable liquids. In addition, all Storage Containers are designed to suit the most common container sizes, to make optimum use of the storage space available.

Product advantages

- Outdoor storage for large quantities of hazardous substances
- Minimum investment per storage site
- Equipment selected depending on container types used
- Spill pallets in the lower storage level
- Storage of various substances in all water-polluting classes when specific storage regulations are followed
- Optional fire-rated EI90" and/or REI 90 design in special dimensions available

EN 1090

European standard EN 1090 replaces the previous UK welding standard BS 5950 and other standards and has been mandatory since 01.07.2014.

EN 1090 tests additional safety-relevant points:

- Structural assembly and proof of stability
- Welded and screwed joints
- Optimum corrosion protection

This is documented in a declaration of performance and by CE marking. For you as the customer, this means: only a supplier with certification is permitted to design, manufacture and test buildings - in this case HazMat storage systems with DIBt approval. DENIOS meets all the requirements.

With DENIOS products, you'll ensure maximum safety.



Storage of:

- water-polluting
- flammable to highly flammable
- toxic and highly toxic
- corrosive

i Retain the safety of your stores and make sure you meet the legal requirements with DENIOS Maintenance work. Call 0808 178 0723 for more information.

DENIOS hazmat days

We would be pleased to arrange a company-specific appointment with you.

i DENIOS Storage Systems are delivered fully assembled and ready to use. Just ask if you would also like the DENIOS assembly team to unload and professionally install your product for you. In addition, your employees will be trained on all the safety aspects of your Storage Container and its operation. Please ask for details of our cost-effective packages and what they cover.

■ How am I supposed to store things?



Universal model range for the storage of Free-standing drums



Universal model range for the storage of Palletised drums



Universal model range for the storage of KTC/IBCs

■ Door options



Sliding doors



Wing doors

■ Storage of flammable liquids



With natural ventilation

■ Protection from frost and temperature changes



Thermally insulated System Containers

Versatility

Our System Containers product range has many hidden details:

- Single sided use from the front side or with double depth, offering use from both sides
- Sliding or wing doors
- Special thermal insulation for frost-free storage of temperature-sensitive substances
- 110% containment volume for use in water protection areas

The choice is yours:

- Bay widths from 2700 to 3900 mm
- up to 3 storage levels on top of each other
- Standard lengths from approx. 2.8 to 8.0 metres
- Max. storage capacity 144 x 205 litre drums or up to 24 x 1000 litre IBCs
- Special dimensions available on request

Expertise

Our knowledge is based on over 30 years experience in hazardous materials storage. We are familiar with all the relevant legal regulations and can pass this knowledge on to you with FREE advice.

Call 0808 178 0723 for more information.

Self-ventilating System Container with earthing kit

With the optional accessories set including equipotential bonding, each container (without doors, with wing or sliding doors) can be fitted out to be a legally-compliant store for (passive) storage of flammable liquids.



The DENIOS hazmat manual is an essential source of knowledge for hazardous materials storage. Its 60 pages cover the principal laws, regulations and information on the storage of hazardous materials and works safety. DENIOS customers are always kept well informed.

Order your copy now!

£ 11.30	Order no. 188-294-J9
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IBC and drum Storage Containers

- Storage capacity: up to 48 drums / 12 IBCs
- Naturally ventilated container, suitable for the passive storage of flammable liquids
- For the storage of liquids in all water-pollution classes

- With integral bund in steel, thickness 4 mm
- Sealing tested in accordance with EN ISO 3452-1 with factory test certificate
- Supplied with either wing or sliding doors
- Plastic or stainless steel spill pallet liners for storing aggressive media, optional
- Other door variants and dimensions are available on request
- Shelves with removable hot dip galvanised grids, 3 sided spray protection and shelf guards on the rear wall
- 100 mm ground clearance, accessible with lifting equipment
- Incl. Crane eyes for easy unloading



Model*	1H214	1H414	1H514	1H814	2H214	2H414	2H514	2H814		
Body dimensions W x D x H [mm]**	2960 x 1585 x 2290	4160 x 1585 x 2290	5780 x 1615 x 2290	8180 x 1615 x 2290	2960 x 1585 x 3500	2960 x 1615 x 3500	4160 x 1585 x 3500	4160 x 1615 x 3500	5780 x 1615 x 3500	8040 x 1600 x 3500
Bay dimensions W x D x H [mm]	2700 x 1340 x 1700	3900 x 1340 x 1700	2700 x 1340 x 1700	3900 x 1340 x 1700	2700 x 1340 x 1400	3900 x 1340 x 1400	2700 x 1340 x 1400	3900 x 1340 x 1500		
Sump capacity [l]	1150	1700	2400	3450	1150	1700	2400	3000		
Load capacity [kg/m²]	1250	1250	1000	1000	1250	1250	1250	1250		
Storage capacity IBC / CP / EP / drum	2 / 0 / 0 / 8	3 / 3 / 4 / 12	4 / 4 / 6 / 16	6 / 0 / 0 / 24	4 / 0 / 0 / 16	6 / 0 / 0 / 24	8 / 8 / 12 / 32	12 / 0 / 0 / 48		
Order number hinged door	243-792-J9	243-789-J9	-	-	169-927-J9	-	243-787-J9	-		
Order number sliding door	-	-	243-793-J9	244-575-J9	-	166-510-J9	-	236-874-J9	157-876-J9	235-557-J9

ACCESSORIES

*Heat insulated drum and IBC Storage Containers, accessible from one side, alternatively they are available with an extra storage shelf, accessible on both sides

**Transport dimensions differ from the dimensions of the body.



All cabinets are fully compliant with HSE legislation and environmental pollution prevention guidelines

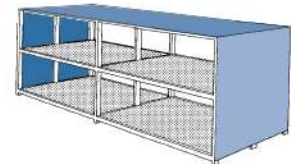
IBC and drum Storage Containers

- Designed for storing drums
- Both long sides closed with lockable 2-wing door
- Points to consider for the storage of flammable substances: safety distances and equipotential bonding / earthing - technical ventilation must be ensured for active storage



System Container model 2G 626.0, with sliding doors, for loading from both sides

On request



Model*	1G 326.0	1G 326.0TE	2G 326.0	2G 326.0TE	2G 626.0	2G 626.0ST
Body dimensions W x D x H [mm]**	3120 x 2800 x 3062		3120 x 2800 x 3023		6240 x 2930 x 3062	
Bay dimensions W x D x H [mm]	3000 x 1270 x 2640			3000 x 1270 x 1250		
Sump capacity [l]	1650			2670	3320	
Load capacity [kg/m ²]	1000	1000	1000	1000	1000	1000
Storage capacity IBC / CP / EP / drum	0 / 4 / 6 / 20	0 / 4 / 6 / 20	0 / 8 / 12 / 40	0 / 8 / 12 / 40	0 / 16 / 24 / 80	0 / 16 / 24 / 80
Order number Without doors	115-449-J9	–	115-452-J9	–	115-473-J9	–
Order number With wing doors	–	115-450-J9	–	115-453-J9	–	–
Order number With sliding doors	–	–	–	–	–	115-474-J9

*Heat insulated drum and IBC Storage Containers, accessible from one side, alternatively they are available with an extra storage shelf, accessible on both sides

**Transport dimensions differ from the dimensions of the body.

ACCESSORIES

Set of accessories for the storage of flammable liquids

- All denios Storage Containers can be fitted with an accessories set with earth strap for equipotential bonding and marking (does not apply to version with roller doors)

£ 58.00

Order no.
138-099-J9





Special equipment for Storage Containers - as individual as your needs

DENIOS standard solutions are based on our many years of experience in hazardous materials storage. As the areas of application and requirements of our customers are so varied, we equip our tested Storage Container solutions with special features. On special request, we can fit our Storage Containers with electrically operated roller doors. Just like a sliding

door, roller doors take up little space and allow the store to be installed in an especially space saving manner. Each drum is accessible to the user at any time. Special drum rails enable individual containers to be pulled out and turned. Our optional extras includes customising your container with your company logo or colours.

- Maximum storage capacity:
144 x 205-litre drums



System Container 3P 814.0 with sliding doors for up to 72 x 205 litre drums

- Double depth version so can be loaded from both sides



System Container 3G 626.0 with sliding doors in custom paint

- Also available in double depth for storing up to 24 IBC / KTC



System Container 2H 814 with sliding doors and custom paint

- Maximum storage capacity:
144 x 205-litre drums



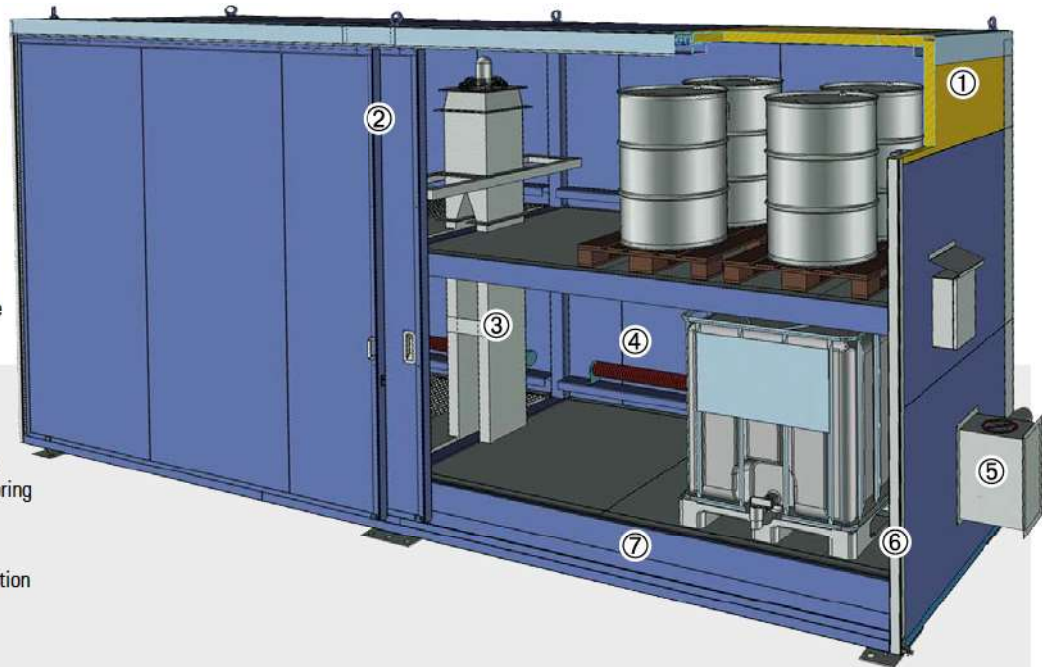
Space saving System Container 3P 814.0 with roller doors

Insulated 'System Containers ISO' for temperature sensitive materials

The reliable temperature control of heat or frost sensitive stored substances is required in many industrial areas, for example to protect stored containers from the negative effects of temperature or to keep additives at the correct temperature, ready for immediate use. Insulated System Containers from DENIOS make the ideal choice for the frost-free storage of temperature sensitive substances. The System Containers can be fitted with better

heating, cooling equipment or climate control systems if required. The proven construction principle of the System Container is also used for the insulated version. The sturdy welded steel frame design is covered on all sides with special panels. Different insulations are used for the storage of water-polluting or flammable hazardous substances (see below).

- ① Efficient thermal insulation, insulating panels with a filling of mineral wool or PU
- ② Front-closing with thermally insulated sliding or wing doors.
- ③ From overall width 5.80 M with controlled air flow for optimum air and temperature distribution
- ④ Finned tube heating
- ⑤ Exhaust air fan to guarantee the exchange of air when storing flammable liquids
- ⑥ Welded steel frame construction
- ⑦ Integrated spill pallet



With insulation using PU panels of material class type B, System Containers are approved for the storage of water-polluting substances of all water pollution classes. Insulated with mineral wool panels of material class type A, System Containers are approved for the active and passive storage of flammable liquids (flash point up to 60°, classified as H 224, H 225 or H 226).



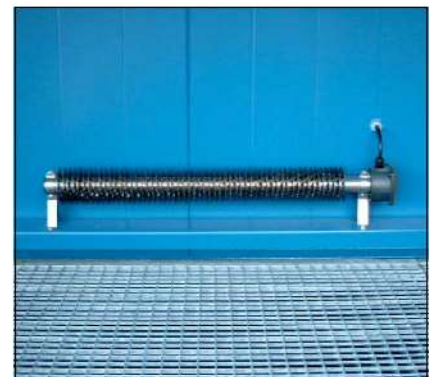
Mineral wool panel (type a)

The insulation of the ISO System Containers for the storage of flammable substances consists of a mineral wool supporting core and cover sheets in steel. The material thickness is 50 mm, thicker insulation is available on request. Building materials class B according to DIN 4102, $K = 0.78 \text{ W/(m}^2\text{K)}$. The insulation material offers good insulation, a long service life and outstanding fire protection.



PU panels (type B)

The insulation of the ISO System Containers for the storage of water-polluting substances consists of a polyurethane supporting core and cover sheets in steel. This ensures excellent insulation against heat and cold. The material thickness is 50 mm, building material class B in accordance with DIN 4102, $K = 0.47 \text{ W/(m}^2\text{K)}$.



Heating systems

For frost-free storage, System Container ISO can be fitted with an electric finned tube heating system, (-15° external temperature, +5° internal temperature). On request, heating systems using warm water, heat carrying oils or saturated steam are available.

Also available with EX protection according to ATEX.



IBC and drum Storage Container model G-ISO

- The walls and doors of the container are fitted with high load heat insulation
- The walls consist of a rock wool insulation layer with a steel covering on both sides
- Max. storage capacity: 48 x 205 litre drums or 12 x 1000 litre IBCs
- Protect your stored goods from the effects of frost



- Integrated sump pallet complies with the requirements of the Environment Agency
- Heating device for maximum protection in sub zero temperatures (-15 °C outside, +5 °C inside)
- Available with wing doors or sliding doors
- Supplied ready for use
- Cooling devices for optimum storage temperatures are available as accessories
- Acid and alkali resistant PE or stainless steel sumps (optional)
- Tailor made solutions available upon request

Model	1H 214 ISO A	1H 414 ISO A	1H 514 ISO A	1H 814 ISO A	2H 214 ISO A	2H 414 ISO A	2H514 ISO A	2H814 ISO A
External Dimension W x D x H (mm)	3035 x 1810 x 2850	4235 x 1810 x 2850	5855 x 1810 x 2850	8255 x 1895 x 2850	3035 x 1810 x 3810	4235 x 1810 x 3810	5855 x 1895 x 3810	8255 x 1895 x 3810
Shelf Dimensions W x D x H (mm)	2700 x 1340 x 2060	3900 x 1340 x 2060	2700 x 1340 x 2060	3900 x 1340 x 2060	2700 x 1340 x 1450	3900 x 1340 x 1450	2700 x 1340 x 1450	3900 x 1340 x 1450
Sump Capacity (ltr)	1150	1700	2400	3450	1150	15700	2400	3450
Shelf load capacity (kg/m ²)	1250	1250	1250	1250	1250	1250	1250	1250
Storage capacity 205 lt drum / IBCs	8 Drums / 2 IBCs	12 Drums / 3 IBCs	16 Drums / 4 IBCs	24 Drums / 6 IBCs	16 Drums / 4 IBCs	24 Drums / 6 IBCs	32 Drums / 8 IBCs	48 Drums / 12 IBCs
Order number Hinged door	243-822-33	243-824-33	-	-	243-828-33	243-829-33	-	-
Order number Hinged door	-	-	243-826-33	243-827-33	-	-	243-830-33	243-651-33
ACCESSORIES								
Frost protection Heating (ATEX) -15°- +5	1 X 206912	1 X 206912	2 X 206912	2 X 206912	1 X 206912	1 X 206912	2 X 206912	2 X 206912
Control Panel (NON ATEX)	243822-CP	243824-CP	243826-CP	243827-CP	243828-CP	243829-CP	243830-CP	243810-CP
Climate Control (ATEX)	243822-CC	243824-CC	243826-CC	243827-CC	243828-CC	243829-CC	243830-CC	243810-CC

ACCESSORIES



Set of accessories for the storage of flammable liquids

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£ 58.00

Order no.
138-099-J9



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Drum and IBC Storage Container type K-ISO

- Container with thermal insulation for the storage of heat or frost-sensitive goods (heating available as an option)
- All-round insulation with non-flammable mineral wool panels (building material class A in accordance with EN 13501-2), covered on both sides with galvanised sheet steel plates
- Storage capacity: up to 48 drums / 12 IBCs

Heat insulated IBC and drum Storage Container, 2G 614.ISO with sliding doors and electrical recirculating heating



A container for storing flammable liquids is also available on request



Heat insulated IBC and drum Storage Container, 2K 414.ISO with roller shutter doors



The ventilated design ensures optimal heat dispersion throughout the container

Standard heating systems

Ideal for use in sub zero temperatures: outside -15 °C, inside +5 °C, stainless steel 1.4512 heating to ensure corrosion protection. The heating is installed ready to use.



Installed example of ribbed pipe heating

Model	1H 214 ISO B	1H 414 ISO B	1H 514 ISO B	1H 814 ISO B	2H 214 ISO B	2H 414 ISO B	2H514 ISO B	2H814 ISO B
External Dimension W x D x H (mm)	2935 x 1810 x 2750	4135 x 1810 x 2750	5755 x 1850 x 2750	8155 x 1850 x 2750	2935 x 1810 x 3710	4135 x 1810 x 3710	5755 x 1850 x 3710	8155 x 1810 x 3710
Shelf Dimensions W x D x H (mm)	2700 x 1340 x 2060	3900 x 1340 x 2060	2700 x 1340 x 2060	3900 x 1340 x 2060	2700 x 1340 x 1450	3900 x 1340 x 1450	2700 x 1340 x 1450	3900 x 1340 x 1450
Sump Capacity (litr)	1150	1700	2400	3450	1150	1700	2400	3450
Shelf load capacity (Kg/m ²)	1250	1250	1250	1250	1250	1250	1250	1250
Storage capacity 205 lt drum / IBCs	8 Drums / 2 IBCs	12 Drums / 3 IBCs	16 Drums / 4 IBCs	24 Drums / 6 IBCs	16 Drums / 4 IBCs	24 Drums / 6 IBCs	32 Drums / 8 IBCs	48 Drums / 12 IBCs
Order number Hinged door	243-795-33	243-796-33			243-807-33	243-813-33		
Order number Hinged door			243-797-33	243-804-33			243-819-33	243-820-33
ACCESSORIES								
Frost protection Heating (NON ATEX) -15° - +5°	1 X 195807	1 X 195807	2 X 195807	2 X 195807	1 X 195807	1 X 195807	2 X 195807	2 X 195807
Control Panel (NON ATEX)	243795-CP	243796-CP	243797-CP	243804-CP	243807-CP	243813-CP	243819-CP	243820-CP
Climate Control (NON ATEX)	243795-CC	243796-CC	243797-CC	243804-CC	243807-CC	243813-CC	243819-CC	243820-CC