



Fire-rated gas cylinder cabinet model G 30.6, Width 600 mm. Supplied optionally as G30 or G90 version



Fire-rated gas cylinder cabinet model G 90.9, Width 900 mm. Supplied optionally as G30 or G90 version

■ For fire-proof storage of gas cylinders in work areas
 ■ Type-tested as per EN 14470-2

- Optimum fire protection and best possible safety for pressurised gas cylinders
- Maintenance of the maximum permitted temperature increase on the surface of the cylinder valve holder of 50K in accordance with EN 14470-2 Model range G90 are also GS tested
- Air extraction connection (NW 75) fitted in the roof of the cabinet
- Adjustable feet to even out uneven floor surfaces
- Break through points in the roof of the cabinet

- Complete with mounting rails for fittings, gas cylinder support and belt (fittings and gas cylinders not included)
- Easy to install the gas cylinders with the integral folding ramp in chequer plate steel
- Generous internal height to facilitate fitting inside the cabinet
- With earthing connection as standard

Model	G 90.6-10	G 90.6	G 90.6-2F	G 30.6	G 90.9	G 30.9
Fire resistance	90 minutes	90 minutes	90 minutes	30 minutes	90 minutes	30 minutes
Storage capacity	10 litre gas cylinders	50 litre gas cylinders	50 litre gas cylinders	50 litre gas cylinders	50 litre gas cylinders	50 litre gas cylinders
Number	2	1	2	2	3	3
External dimensions W x D x H [mm]	598 x 615 x 1450	598 x 615 x 2050	598 x 615 x 2050	596 x 616 x 2050	896 x 615 x 2050	896 x 615 x 2050
Internal dimensions W x D x H [mm]	445 x 425 x 1246	445 x 425 x 1858	477 x 425 x 1858	494 x 479 x 1874	745 x 425 x 1858	794 x 479 x 1874
Door design	1-wing	1-wing	1-wing	1-wing	2 wing doors	2 wing doors
Door hinge: both sides						
Order number yellow	—	—	—	—	165-313-J9	144-520-J9
Order number Grey	—	—	—	—	165-306-J9	117-003-J9
Price / Item(s)	—	—	—	—	£ 3,099.00	£ 2,323.00
Door hinge: left						
Order number yellow	210-380-J9	165-310-J9	210-384-J9	144-518-J9	—	—
Order number Grey	210-382-J9	165-304-J9	210-386-J9	117-001-J9	—	—
Price / Item(s)	£ 2,608.00	£ 2,608.00	£ 3,032.00	£ 1,936.00	—	—
Door hinge: right						
Order number yellow	210-381-J9	165-311-J9	210-385-J9	144-519-J9	—	—
Order number Grey	210-383-J9	165-305-J9	210-387-J9	117-002-J9	—	—
Price / Item(s)	£ 2,608.00	£ 2,608.00	£ 3,032.00	£ 1,936.00	—	—

i Delivery times
 Exact delivery times for yellow gas cylinder cabinets in width 600 mm and the G30 version are available on request - just give us a call: 01952 700 572. All other sizes and versions can be supplied within 4-5 weeks.



Fire-rated gas cylinder cabinet model G 30.12, Width 1200 mm.
Supplied optionally as G30 or G90 version



Fire-rated gas cylinder cabinet model G 90.14, Width 1400 mm.
Supplied optionally as G30 or G90 version

Model	G 90.12	G 30.12	G 90.14	G 30.14
Fire resistance	90 minutes	30 minutes	90 minutes	30 minutes
Storage capacity	50 litre gas cylinders	50 litre gas cylinders	50 litre gas cylinders	50 litre gas cylinders
Number	4	4	4	4
External dimensions W x D x H [mm]	1198 x 615 x 2050	1198 x 615 x 2050	1398 x 615 x 2050	1398 x 615 x 2050
Internal dimensions W x D x H [mm]	1045 x 400 x 1858	1094 x 479 x 1874	1245 x 400 x 1858	1294 x 479 x 1874
Door design	2 wing doors	2 wing doors	2 wing doors	2 wing doors
Order number yellow	165-314-J9	144-521-J9	165-315-J9	144-522-J9
Order number Grey	165-307-J9	117-004-J9	165-308-J9	117-005-J9
Price / Item(s)	£ 3,374.00	£ 2,477.00	£ 3,842.00	£ 2,876.00

ORDER ACCESSORIES AT THE SAME TIME



- Mounting kit for pipe breakthrough points, incl. 2 Ermeto screw joints, R 3 / 8", for G30 and G90 cabinets,
Order no. 117-007-J9, £ 45.50
- Height adjustable holder for fitting on the side wall, for 2 x 10 litre cylinders - for G30 and G90 cabinets, apart from G 90.6-10 And G 90.6-2F, **Order no. 117-006-J9, £ 73.50**

Quick to install extraction units for technical ventilation

- Add on without air surveillance,
Order no. 129-345-J9, £ 586.00
- Add on with air surveillance,
Order no. 136-799-J9, £ 719.00



Quick to install technical ventilation kit attachments

i TIP: For a 120 times air exchange, which is needed for example when storing toxic gases, use the radial fans on

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Suggestions and tips for handling hazardous substances based on country-specific and European legislation.

The EN 14470-2

Safety cabinets for compressed gas cylinders Harmonisation of European legislation has also extended to compressed gas cylinder cabinets. The new Euro regulation EN 14470-2 (enforced on 21/07/2006) replaces the existing DIN 12925-2. Fire resistance will be divided into 4 classifications from G15 to G 90 (fire resistance from 15 to 90 minutes). Each cabinet model and size is subject to a fire chamber test. Testing should be carried out by a recognised materials testing institute. The EN 14470-2 stipulates that a certificate of conformity must be supplied with the product.

Compressed gas cylinders - the most important requirements

Compressed gas cylinders are potentially very dangerous due to their overpressure and content (corrosive, toxic, flammable, oxidizing). Please find an excerpt of the most important regulations on this page.

The storage of gas cylinders outdoors is the most appropriate storage solution but as gas is often used within buildings, DENIOS offer an approved cabinet system for indoor use which meet all current regulations.

Regulations

In addition to the general protective measures, especially the provisions of the TRBS 3145 regulations have to be observed. The former TRG 280 regulation has been replaced by TRBS 3145.

Indoor Stores

Indoor stores are stores in self-contained rooms or rooms which are open on one side. The walls of adjacent buildings and the outside walls of the stores must be designed to be fire-resistant.

Sufficient air input and output of the storage has to be guaranteed (with a ventilation area at least 1% of the bottom area). Other flammable materials may not be stored in the store rooms (e.g. flammable liquids, wood, and paper). (Exception: Separation by a protective wall of a height of more than 2 m).

Outdoor Stores

Outdoor stores are stores which are open on at least two sides, also which are only open on one side when the depth - measured from the open side - is not longer than the height of the open side. A side is also considered to be open when it consists of a wire mesh or similar. The protective distance to the adjacent facilities by which a hazard can be caused (e.g. stores with flammable substances), is at least 5 m; a protective wall of a height of 2 m made from non-flammable building materials can replace the safety distance.

Provision / Emptying

The provision of compressed gas cylinders filled with toxic and flammable gases is only allowed when the protective area has been kept. The BG regulation BGR 120 (former ZH1 / 119) requires the protection from high heat in case of a fire. Otherwise, the cylinders have to be brought into a protected store after work.

Gas cylinder cabinets must consist of non-flammable material. They have to have a ventilation opening in the bottom and the ceiling area of 1/100 of the floor space, or at least 100 cm². The EN 14470-2.

Why G90?

For many years, it has been standard practice to store flammable liquids in 90 minute fire resistant safety cabinets.

Until recently, the operator had a different safety level for storing compressed gas cylinders to storing flammable liquids. The DIN 1295-2 only stipulated that compressed gas cylinders must be protected from extreme heat for up to 20 minutes. Consequently, the 4 classification strategy has given operators the same safety levels to choose from that they had for storing flammable liquids. This is easier to understand and shows that the hazard created by compressed gas cylinders is comparable with flammable liquids. When gas cylinders are exposed to extreme heat, gas can escape from the fittings the cylinders are connected to, which can have devastating effects. Even stronger heat can cause the compressed gas cylinders to explode. Such gas cylinder explosions are destructive.

DENIOS safety cabinets compliant with EN 14470-2

In compliance with international standards, DENIOS offers G90 cabinets, which exceed the DIN 1295-2 standards of yesterday to meet the EN 14470-2 standards of today. Consequently new cabinets tested to DIN 1295-2 standards will also have been tested to EN 14470-2 standards.

Ventilation compliant with DIN EN 14470-2

This new regulation also includes strict regulation on ventilation. Special flammable and toxic gases must be stored in conditions with an air change of up to 120 times.



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