

Open Dewars

There are several stainless steel open Dewar's available and if desired we can even supply client specific Dewar's. They can be used for storing liquid Nitrogen or dry ice (CO2) pallets. The types can be divided in three groups the D series being the most common ones and the CS series the specials. We have divided the Dewar's based on the capacity/internal dimensions as these are the most important specifications when using open Dewar's.

PRODUCT SPECIFICATIONS

D SERIE OPEN DEWAR'S			
D501	0,5L unit	internal diameter 65 mm	h=180 mm
D1001	1L unit	internal diameter 90 mm	h=205 mm
D1001W	1L unit	internal diameter 100 mm	h=157 mm
D2001	2L unit	internal diameter 100 mm	h=285 mm
D3001	3L unit	internal diameter 185 mm	h=160 mm
D6001	6L unit	internal diameter 185 mm	h=270 mm



Standard D serie

TAYLOR WHARTON KSERIE UNITS			
TW3K	48L unit	internal diameter 356 mm	h=488 mm



For these Dewar's we have cork, stainless steel and special lids with freezing tray

CRYO ANLAGENBAU OPEN DEWAR'S			
CS70/150D	0,6L unit	internal diameter 70 mm	h=150 mm
CS70/250D	1L unit	internal diameter 70 mm	h=250 mm
CS150/250D	4,4L unit	internal diameter 150 mm	h=250 mm
CS150/300D	4,4L unit	internal diameter 150 mm	h=300 mm
CS150/450D	7,95L unit	internal diameter 150 mm	h=450 mm
CS150/500D	8,8L unit	internal diameter 200 mm	h=400 mm
CS200/400D	12,5L unit	internal diameter 200 mm	h=400 mm
CS250/450D	22L unit	internal diameter 250 mm	h=450 mm



TW3K series especially suited for dry ice 25Kg holds approx 3-4 weeks



CAB CS/D series with choice of handles at the side, a handle, or with a flange

Safety

CRYOGENIC GLOVES

An essential accessory for working in cryogenic atmospheres, cryogenic gloves are available in several styles and sizes.

Next to these gloves we also recommend a cryogenic skirt and face protection and to be absolutely sure also a portable Oxygen detection would be one item we do advise to use.

As a safety set we advertise the following:

- Cryogenic gloves midarm, cryogenic skirt and face protection
- The portable O2 detection is an option

For the complete overview of safety products, we refer you to our price list 'Safety Equipment'.



SAFETY AND TECHNICAL TRAINING OF CRYOGENIC STAFF

As an additional service Cryo Solutions BV can help you in training your staff both on the technical site as on safety when working with cryogenics (gasses and equipment). This training consists of two parts each taking about ½ a day of training either at our facility or locally at yours. Each member will get a personal certificate and information map at the end of his training, so he or you can prove that they know what the dangers are and how to work with cryogenics.

SAFETY

The general idea of this part of the training is that people recognize and know what the difficulties and dangers are when working with cryogenics such as oxygen depletion or freezing for example and how to react in case anything does go wrong. Also as part of the training we will explain which precautions one has to take and which laws one there are when working with liquid gasses in rooms.

TECHNICAL

We will provide a hands on technical training on your own equipment locally or on similar equipment at our training facility, the general idea behind this technical training is that your staff is capable of detecting the problems and give us the right information so we can fix the problem as quick as possible, in some cases in conjunction with you or your staff.

INSTALLATION QUALIFICATION AND OPERATING QUALIFICATION

An extra service we can supply in addition to our normal installation and instruction of cryogenic equipment is an IQ/OQ procedure, this ensures that your installation is installed at the best possible way and you can comply to any GMP/GLP or FDA standards. We have standards by which we do these IQ/OQ procedures supplied by our producers but we can also make these to your own desired specifications.

24 HOUR BACK-UP

Next to our normal service and maintenance contract we can also supply you with an 24 hour back-up contract, and we offer this for 365 days a year, so ensuring the maximum equipment safety year round. The contract consists of the following:

- 1) 24 hour technical support by telephone, 365 days per year.
- 2) The guaranteed availability of biological storage tank or a controlled rate freezer.
- 3) Response time within an agreed maximum hours and within this time span we will deliver a spare machine for a period of several weeks, so you can proceed with your procedures and/or production as soon as possible.