

NEWS FLASH

Cryo Solutions Laborama 2009 Stand Number E6

Following the huge success of previous editions, Cryo Solutions will once again be present at the Laborama trade fair, which is to be held this year at the Brussels Kart Expo in Brussels.



www.laborama.be

New Premises for Cryo Solutions BV!



Training area

Having undergone a rapid expansion in staff, turnover and activities, Cryo Solutions realised it had out-grown its original site. We decided to move when new premises became available on the industrial complex where Cryo Solutions was already based, making it possible for us to offer our clients an even better

service. We now have a special electro workshop for servicing and upgrading equipment such as Planer computer freezers, but where we can also assemble control units. We have a well-equipped training area where we can provide safety instruction and technical training using authentic cryogenic equipment and vessels. Cryo Solutions now also has the facilities for storing third party materials in its own cryobank equipped with every possible safety device and data log function.

MVE Eterne vessels for the AMC



The Pathology laboratory of the AMC in Amsterdam has chosen for the combination of MVE 815/810 and 1530/1536 Eterne series vessels to replace an existing MVE XLC vessel and their old -140 mechanical freezer(s).

The high maintenance costs and the reliability of the mechanical freezers made them decide to replace them for "dry" gas phase Nitrogen storage vessels which can guaranty a stable low temperature at all times, low running costs and a secure storage.

Cryo Solutions take over cryogenic activities from Depex

Depex has stopped all its cryogenic activities such as the sales, maintenance and service of Planer PLC and Chart Biomedical (MVE) products.

In joint discussions between Depex and Cryo Solutions, it was agreed that Cryo Solutions would take over all activities and, in addition to sales, further arrange and carry out all activities with regard to servicing, spare parts, warranties and maintenance.

Renewal of total maintenance contract with UMC

The University Medical Center Groningen has again extended its contract with Cryo Solutions. The contract now also includes all pressure vessels, a move that was recommended by SOL/NTG, who already have a maintenance contract with Cryo Solutions, as this allows for quicker and easier organisation.



Cryo Solutions at 'Het Instrument' 2008

This year's edition of the largest laboratory equipment exhibition in the Netherlands was once again a great success for Cryo Solutions. The exhibition took place from 20 to 23 May in the Jaarbeurs Exhibition Centre in Utrecht. During the exhibition we presented the new IVF storage vessel MVE816, and the new Planer monitoring system Assure24Seven.

As a special attraction, we also had with us the world champion of cryogenic cooking who treated us to delicious refreshments throughout the event. Molecular cooking or CryoCooking is becoming increasingly popular.



Cryogenic cooking by world champion chef!!! during the technology exhibition 'Het Instrument' 2008



Cryo Solutions was very pleased and proud when chef Toine Smulders asked if they would assist him when he participated in the world championships in Dubai in May 2008 and with CryoCooking at the trade exhibition 'Het Instrument' a week later. Toine Smulders had already gained the title of best European chef in September 2007 in Budapest and in May 2008 in Dubai he was voted the best chef in the world!!!

We would recommend everyone to visit Toine's restaurant Villa Copera, which is open every day except Tuesday from 12 noon to 10 pm.

Lunch is not served on Saturdays.
Closed on Tuesdays!

www.copera.nl

2nd Cryogenic installation in stem cell lab at Erasmus MC Hospital, Rotterdam

Cryo Solutions has been asked to supply another cryobank to the Erasmus MC Hospital; the first modernised cryobank was delivered to their stem cell lab in 2005. Staff were impressed with their previous work and Cryo Solutions was therefore the company of choice for building their modernised cryobank.

The project included the installation of vacuum insulated piping and a central control unit with PLC for a waste gas and simultaneous filling system and switching equipment.

We have also Improved the position of both their Planer controlled rate freezers.



UMCG lab, central cryobank



In collaboration with the gas company SOL/NTG, which is based in Tilburg, Cryo Solutions has built a new cryogenic installation in the basement of the University Medical Center Groningen (UMCG). Increased storage space was badly needed and this cryobank is very much state-of-the-art

where the storage of biological materials is concerned. This cryobank is, in fact, a combination of two connected cryobanks. The distance from the basement to a potential bulk tank location was too great, so a 'double' quadruple switching apparatus was opted for enabling eight 160L liquid nitrogen pressure tanks to be attached to the installation continuously (see photo 2), and thus creating a 'bulk tank' supply of over 1200 litres of liquid nitrogen, divided, however, among the several standard 160L pressure vessels used at UMGG.

The installation also has a waste gas and simultaneous filling system so that liquid nitrogen consumption is kept as low as possible. All parts of the installation are assembled in one of the new Cryo Solutions PLC control units, which feature a text display instead of push buttons for further ease of operation.

Delivery of nitrogen gas installation to MAPPER Lithography b.v.

In addition to Cryo Solutions supplying Mapper with CS160SK pressure vessels and liquid nitrogen through the cryoservice, Mapper has also decided to replace its pressure cylinder park with a Cryo Solutions high pressure liquid nitrogen pressure tank. The main benefit of using a system like this is that it eliminates the need to continually replace the cylinder packs as this pressure tank can be filled from the outside with liquid nitrogen withdrawn from the pressure tank.

These factors combined result in significant savings in logistical and gas costs.



Total maintenance contract with LUMC



The Leiden University Medical Center has opted for Cryo Solutions as its partner for the maintenance of all its cryogenic equipment. The main reasons behind their choice were, in addition to Cryo Solutions' wealth of cryogenic expertise, the company's fast and flexible working methods and their independence with regard to gas suppliers and manufacturers of cryogenic equipment.

Cryogenic installation for Unilever Vlaardingen R&D



As subcontractor for the Research and Development department at Unilever, Cryo Solutions was able to supply special parts for a cryogenic installation: special valves, vacuum insulated piping and pressure vessels. This is a test installation which is a copy of a larger installation elsewhere in the world. It is hoped that problems might first be solved using this test set-up in order to avoid extremely high costs for the other installation on the implementation of these new Nitrogen injection techniques.

Three cryogenic installations for Erasmus MC, Medical Genetics Cluster

This department has chosen Cryo Solutions to help make their cryogenic storage areas easier to work in and more functional. Work had been carried out in various different areas with separate pressure vessel connections and automatic storage vessels, and there were also many small storage vessels that required filling manually. Basically, for each area, the project included vacuum insulated piping and a central control unit with switch over device and/or a waste gas and simultaneous filling system which is connected to the filling vessels and storage vessels; an electrical hoist was also included where possible.

New MVE Eterne vessels were also purchased for the dry vapour phase storage of samples.



1st area on the 7th floor

Given the limited budget available, we opted for the most practical solution here: vacuum piping with a central control unit with a switch over device for automatically exchanging an empty pressure tank for a full one. The MVE Eterne vessel gas bypass system can be used for waste gas disposal, which allows for huge costs savings.



2nd cryogenic installation on the 9th floor

Vacuum insulated piping with a central control unit including the following control components: a waste gas unit, simultaneous filling system and switch over device to which the Eurocy1230 filling vessels and storage vessels (Chart MVE1400 and Taylor Wharton 24K) are connected. This also includes an electrical hoist for lifting out the racks containing samples.



3rd cryogenic installation on the 10th floor

This installation also comprises vacuum insulated piping with a central control unit containing the control components (waste gas and simultaneous filling system, and switch over device). A new storage vessel has also been purchased for this area. The vessel of choice was an MVE Eterne vessel for a number of reasons, the two main ones being the huge reduction in nitrogen usage (over 30% less used) and the fact that the system includes a rotating inner section (a carousel), which offers great advantages

where accessibility is limited – front access only is sufficient because it is possible to access and turn the drums through the front opening.

Alterations to cryogenic installation at the University of Antwerp



The University of Antwerp also opted for Cryo Solutions to carry out alterations to their existing cryogenic installation. The installation consisted of vacuum insulated piping and a control unit containing the controls for both a waste gas system and switch over device.

Other components that have been incorporated into the installation are an external filling unit in the wall with connections to the entire system for filling the pressure tanks. The back-up system for the 80 mechanical freezers also makes use of this nitrogen installation.

Product info

External storage at Cryo Solutions 's Hertogenbosch / Snijders Scientific Tilburg



You can now store your biological materials at Cryo Solutions; the new cryobank has been used for this purpose since 1 January 2009. For the external storage of materials, Cryo Solutions also works in close collaboration with Snijders Scientific in Tilburg, which means that we can offer not only cryogenic storage but also storage in mechanical freezers (-80 C).

External storage may be required for a number of reasons, but the most common ones are the spread of risk and shortage of space on one's own premises. In addition to storing back-up materials, you can also use an external location for storing materials not required for immediate use, enabling you to make optimum use of the valuable space you have available. You may use your own

storage vessel for storing materials at Cryo Solutions, but vessels (all or extra) are also available for hire through Cryo Solutions. The storage facility also includes 24 hour surveillance. In order to keep the costs as low as possible, Cryo Solutions has opted for a system in which you bring, place and collect your own materials; this is also the best way to ensure that your materials are handled correctly. This is something we cannot guarantee if your materials are handled by third parties, however careful they may be. We can, however, arrange transport for your samples or vessels if you wish.

Gas delivery using Cryo Logistics (Nitrogen or Argon)

Cryo Solutions BV can also arrange the delivery of your liquid nitrogen. We can supply up to 1,000L per delivery. You may make use of your own pressure and/or dispensing vessels but pressure tanks and filling vessels are also available for hire from Cryo Solutions. Next to regular deliveries Cryo Solutions can also offer temporary solutions such as providing gas supplies for a long holiday weekend or in urgent situations whereby your own supplier is unable to guarantee a delivery of liquid nitrogen.

Another option is the delivery of a small vessel including liquid nitrogen and even an oxygen sensing device if this is required. This last option is often used when delivering liquid nitrogen to general practitioners for use in the treatment of warts.



Dry ice CO2



Cryo Solutions now also supplies dry ice, which can be used for example when transporting your materials or for molecular cooking. The minimum package size is 5kg, but deliveries of 12Kg or 25Kg are also possible. The CO2 can be delivered in 3mm or 16mm pallets; Cryo Solutions can also arrange the shipments of your samples on dry ice if required.

Gas cylinders and gas installations

Cryo Solutions BV can also arrange the delivery of your liquid nitrogen. We Cryo Solutions can also supply small gas installations and cylinder packs; often a limited installation is all that is required but gas suppliers are not always enthusiastic about accepting this type of project. Cryo Solutions can help in this respect by either installing the required equipment, or putting you in touch with the relevant suppliers. For example, Cryo Solutions recently constructed a piping system for DSM in Waalwijk (as a subcontractor of TEBODIN BV) which, using N2 gas from cylinders, can pump a reactor vessel empty in the event of an emergency stop.

Cryo Solutions has also supplied the University of Groningen with cylinder packs for the storage of helium gas.



University of Groningen cylinder packs

Cryo cooking: een koud kunstje!

