



domnick hunter

05 MAXIGAS N_2 NEWS

JULY 2006

Food Processing Awards Finalist



The MAXIGAS range was a finalist in this year's Food Processing Awards. The range was nominated in the Technological Development of the Year category.

The nomination was based on the N2MAX112 and 116 models that were added in late 2004 to give higher nitrogen flow rates.

MAXIGAS was selected as one of four finalists out of over 100 entries, quite an achievement, the judging panel noted the speed of operation and recognised the advantages offered to food manufacturers and processors.

ProPak is a real success



The domnick hunter team in Thailand have just concluded this year's participation at ProPak Asia in Bangkok.

This was the 14th international ProPak show and it is still Southeast Asia's leading exhibition for processing and packaging machinery, materials and related technologies.

The show attracts buyers from pharmaceutical, food, beverage, cosmetic, general consumer and industrial manufacturing industries throughout Asia.

This year was an enormous success for domnick hunter with a larger booth in a more strategic location, which attracted more potential clients than ever before.

Both MAXIGAS and MIDIGAS were showcased.

Edible Oils

domnick hunter Singapore recently installed two N2MAX106's at a vegetable oil production plant in Sri Lanka.

Nitrogen is typically used to sparge edible oils including vegetable, sunflower, soyabean and rapeseed oil. Sparging is a process in which tiny bubbles of nitrogen are introduced to the oil to reduce oxygen content and increase the shelf-life of the oil.

domnick hunter Australia recently installed a MAXIGAS nitrogen generator at The Big Olive, one of Australia's largest producers of olive oil. The generator produces nitrogen at a rate of 15Nm³/hr.



In this issue:

Border Precision installs MAXIGAS

Dublin City University installs laboratory gas solution

Samsung Go Green

Dublin City University installs first ever centralised laboratory gas solution in Ireland



Dublin City University (DCU) has over 30 science laboratories spread over two schools and three research centres, all of which use nitrogen for a range of different applications including the blanketing of fume cupboards and GC analyses.

The University needed a more convenient and economic gas supply method that did not rely on individuals having to continually order and install new gas mini tanks.

The University turned to Dalco Nitrogen Systems for advice, a specialist in nitrogen supply and official domnick hunter distributor.

Laboratory gas generators were not suitable due to the large volume

of nitrogen gas required, so MAXIGAS was a far more economic and flexible solution.

With the support of Dalco, the University installed three N2MAX110 units in the first ever centralised laboratory gas solution in Ireland. The completely bespoke system was designed with two gas supply lines; one with a purity of 99.9% and one ultra high purity line at 99.999% for use with high calibre analytical instruments.

The University has made savings of around €30,000 per year since switching from liquid nitrogen mini tanks.

Additional advantages of the on-demand nitrogen solution mean that university researchers and students never run out of gas so there is no disruption to important analyses and safety has been improved.

Leading contract manufacturer installs MAXIGAS

Border Precision, Scotland's leading precision engineering contract manufacturer, recently took delivery of an N2MAX110 for a cylinder filling system used during laser profiling.

The system utilizes a high pressure booster to deliver nitrogen at up to 300bar produced from a standard MAXIGAS on-site nitrogen generator to a Trumpf laser and laser punch.

The high pressure nitrogen is stored in rack mounted cylinders giving greater flexibility of storage and overcoming traditional problems of large and expensive gas tanks.

High pressure storage gives a two fold benefit, firstly the overall size of the system can be kept to a minimum and as such capital

investment is reduced. Secondly a much greater stored volume of nitrogen is achieved overcoming "peaks and troughs" during the working day whilst allowing cylinder refilling to take place overnight, which ensures energy costs are kept to a minimum.

The bespoke system was assembled and tested by MSS, domnick hunter's partner in MAXIGAS laser cutting applications.

MSS, located in Rugby, are specialists in the supply of laser cutting machines and ancillary equipment. MAXIGAS systems including pre-treatment, booster and storage vessels are offered in kit form, which enables rapid on-site installation with start up within a day.

Helping Samsung Go Green

Samsung Engineering Co. in South Korea recently installed six N2MAX110's to assist its processes. The company recycles old electrical appliances such as refrigerators and washing machines.

MAXIGAS provides nitrogen for the refrigerator recycling line. Most harmful refrigerant CFC's are removed under vacuum before the recycling process, however, some remain in the fridges. Therefore when they pass to the crushing and shredding machines, as a safety measure the process is blanketed with nitrogen because CFC's are highly flammable.

The nitrogen flowrate is 207 Nm³/hr with a purity of 3% oxygen content.

The Waste Electrical and Electronic Equipment (WEEE) Directive means that we are likely to see more applications like this in the future.

In the UK we throw away a million tonnes of electrical and electronic waste every year. The new plans mean householders will take items to a collection point, and the directive will make producers responsible for taking back products for recycling or recovery. It will affect any business that manufactures or sells electrical and electronic equipment in the EU. The deadline for implementing the new directive has yet to be finalised.



For more information contact
dalcoengineering@eircom.net

Ireland: Dunshaughlin, Co. Meath

T: +353 (0)18250768

F: +353 (0)18250769

Email: dalccoengineering@eircom.net

UK: Morpeth, Northumberland

T: +44 1670505477

M: +44 7748984606

Email: dalccoengineering@eircom.net

Australia: 153 Burnside Rd., Bannockburn,

Victoria 3331

T: +61 (0) 352812951

Email: info@dalconitrogensystems.com



DALCO

NITROGEN GAS SYSTEMS
ENGINEERING SYSTEMS