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## NEWS RELEASE

### **Innomech delivers end-of-line test breakthrough for Molecular Products**

GB Innomech (Innomech) has designed and delivered in just 14 weeks a sophisticated, high performance end-of-line testing system for Molecular Products. The new machine, which carries out final leak and flow tests on filled single-use carbon dioxide absorption canisters, is three times faster, much more accurate, easier to use and requires less maintenance than the machine it replaces.

Essex-based Molecular Products produces and fills the plastic canisters with medical grade soda lime for use in anaesthetic and ventilation machines, as well as re-breathing apparatus for the emergency services. Each filled canister then needs to be pressure and flow tested to confirm the integrity of the unit and to ensure there are no blockages in the inlet/outlet tubes or through the device.

One of the challenges with the previous test system was that canisters tended to jam when coupled to the machine for testing leading to delays and reduced throughput. Innomech has overcome this by using a novel clamping mechanism with a 'spongy donut' material that requires near-zero product insertion and removal force by the operator. Easy to change dust traps have also been incorporated to prevent particulate matter from contaminating the machine and interfering with the hermetic seal that is essential during the test. A simple touch screen interface shows clear pass or fail status and independent twin channels allow product to be loaded and unloaded on one station while tests are being performed on the other.

Innomech and Molecular Products have also developed and designed a new, more accurate leak test, using a 'direct differential' methodology that gives an absolute leak measurement in ml per minute. This approach is not only much more sensitive than its predecessor for identifying manufacturing problems but also enables Molecular Products to offer its customers even greater product quality assurance.

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“Innomech was briefed to double our test throughput with a new machine while eliminating some significant operational problems with our previous system. However what they have delivered is a system to take our production capacity to an even higher level and with added features making it more suited for a demanding 24/7 manufacturing environment,” said Martin Sexton, engineering manager at Molecular Products.

“Innomech prides itself on developing breakthrough performance systems but is used to clients not allowing us to talk about the work or to add our logo or any branding to the final machine. In this case, Molecular Products was so pleased with the result they wanted everyone to know and specifically requested we badge the machine with an Innomech nameplate,” said Tim Mead, commercial director at Innomech.

This is the first system Innomech has developed for Molecular Products, although the two companies are now working closely on additional machine concepts for other product ranges.

**Notes to editors:**

**About GB Innomech**

GB Innomech (Innomech) specialises in automating highly complex and labour-intensive manufacturing processes to maximise outputs, improve product quality and boost business performance. The company works with major international manufacturers in sectors such as pharmaceuticals, medical devices and environmental, as well as earlier-stage businesses looking to bring breakthrough technologies or products to market.

Innomech has a growing market reputation for solving the toughest of manufacturing problems by the early identification and management of risk, often cross-fertilising technologies and techniques from a range of industry sectors. All projects from initial feasibility studies through to building production-scale machines are conducted to high specification pharmaceutical industry standards and are designed to comply with GAMP5, FDA and other international standards.

The company was founded in 1990, is based at The Innovation Centre in Witchford, north of Cambridge and was awarded The Queen’s Award for Enterprise 2009 to recognise its sustained growth in international markets.

For additional information about GB Innomech please visit or contact:

- [www.innomech.co.uk](http://www.innomech.co.uk)
- Press enquiries to Simon McKay on +44 (0)1353 741075 or email to [simonmckay@innomech.co.uk](mailto:simonmckay@innomech.co.uk)
- All other enquiries to Tim Mead at Innomech on +44 (0)1353 667394

**About Molecular Products**

Molecular Products is one of the world’s largest producers of carbon dioxide absorbents used in low-flow inhalation anaesthesia systems, and supplies its medical grade Sofnolime® to several of the world’s leading medical equipment manufacturers. In addition, the company also produces products for the generation of oxygen, for example for use in submarines, and for the filtration of hazardous or unpleasant emissions.

The company’s European production facilities and offices are in Thaxted and Harlow, Essex.

For further information please see [www.molecularproducts.com](http://www.molecularproducts.com)

## Photographs

Print quality JPEGs of the images below have been sent as separate file attached to the original email or are also available on request from Simon McKay (details above):



- 1 Automation consultancy GB Innomech has designed and delivered, in just 14 weeks, a sophisticated end-of-line testing system for use in manufacturing carbon dioxide absorption canisters. The new system for Molecular Products - shown above with Tim Mead, commercial director at Innomech - is 3x faster than the machine it replaces.



- 2 Molecular Products is so pleased with its new faster, more accurate and easier to maintain end-of-line testing system shown above that they specifically asked for it to be badged with an Innomech nameplate.

**ENDS**