



Bluefors Oy

We are dedicated to build easy to operate one push button cool-down cryogen-free dilution refrigerator measurement systems. Our dedication and expertise will make sure that each final product is trouble free with a guaranteed long lifetime.

We offer a variety of models of dilution refrigerator measurement systems and these models can be further equipped with a wide range of options, for example, experimental wiring, optical access, and magnet integration. Our systems can be customized to meet the requirements of each intended use by allowing the customer to get in direct contact with the scientists and engineers that design their system.

Company History

In 2005 Rob Blaauwgeers (PhD physics, Leiden University / Helsinki University of Technology) was hired by the renowned Low Temperature Laboratory (LTL) at Helsinki University of Technology (now known as the Low Temperature Laboratory at Aalto University) to move and upgrade all of their dilution refrigerators systems. One of the tasks was to construct a versatile, fully automated gas handling system capable of working in combination with all the different dilution refrigerator systems. At the same time Rob started to develop the first cryogen-free dilution refrigerator system for the LTL.

In the summer of 2006 the newly developed gas handling system underwent first tests in combination with the first prototype of the cryogen-free dilution refrigerator system. It became immediately apparent how simple and easy it was to operate the fully automated cryogen-free (“dry”) dilution refrigerator system as compared to a conventional “wet” dilution refrigerator system. The great interest that followed led to the business idea of commercializing these systems.

Rob contacted study friend and cryogenic engineer Pieter Vorselman (MSc physics, Leiden University). Together they optimized the automated cryogen-free dilution refrigerator system for reliability, ease-of-use and performance. In 2007 the first system was taken into use by the NANO group of the LTL and shortly after, in 2008, BlueFors Cryogenics was founded.

BlueFors quickly established itself as a market leader in the field of cryogen-free ultra-low temperature systems. The company is today known as Bluefors Oy with over 250 employees and has an annual revenue of approximately 80 million euro. The name Bluefors reflect the founders names, Blaauwgeers and Vorselman.



In April 2021 Bluefors formed a long-term partnership with Helsinki based DevCo Partners Oy to support the company's next growth phase. DevCo became co-owner in Bluefors and brought complementary know-how related to building world leading companies. Rob and Pieter will continue as co-owners and in their current operational roles – and will have an instrumental role as going forward. The long-term partnership will enable Bluefors to focus on continuing to push the technology boundaries, innovate new products, and develop services to improve customer experience in a rapidly developing market with changing customer needs.

Mission

We are here to enable the quantum technology breakthrough, to support scientists and industries to go further, to allow new innovations, and to grow and care for our global community.



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