



Inline degasser reduces anomalies in reagent dispensing

DEGASi® Plus semi-prep 6-channel degassing system

Biotech Fluidics report how installation of two **DEGASi® Plus semi-prep 6-channel degassing systems** on a production line, has enabled a **diagnostic kit manufacturer** to almost **eliminate inaccurate reagent dispensing issues**.



Image captions: A: DEGASi® Plus semi-prep system adapted for the reagent kit manufacturer

Dispensing precision

is critical to the performance of modern diagnostic kits, where repeatability and accuracy in the amount of reagent dispensed form the basis of reliable results. Collaborating closely with the customer, Biotech Fluidics identified in the reagent kit manufacturing process that chilled solutions warmed up during the dispensing procedure as they moved through the fluidic system - from the bulk supply to the dispensing nozzle.

Fritiof Pontén,

CEO of Biotech Fluidics commented “The increase in temperature, as well as negative pressure transient, and bubble nucleation points within the system resulted in outgassing. This unwanted effect led to bubble formation in pumps and check valves, lowering the dispensing precision in the kit manufacture. Such deviation in the dispensed amount of reagent solutions negatively affect the validity, economics, and possibly even the regulatory approval of a product.”



He added

“Our implemented solution of continuous inline degassing with Teflon® AF membranes effectively removed dissolved gases from reagent solutions thereby greatly increasing precision and reducing dispensing errors by 77%. Before the installation of the two DEGASI PLUS systems the reagent kit manufacturer observed significant dispensing errors in 2% of all samples. Installation of our in-line degassing systems eliminated this source of dispensing errors.”

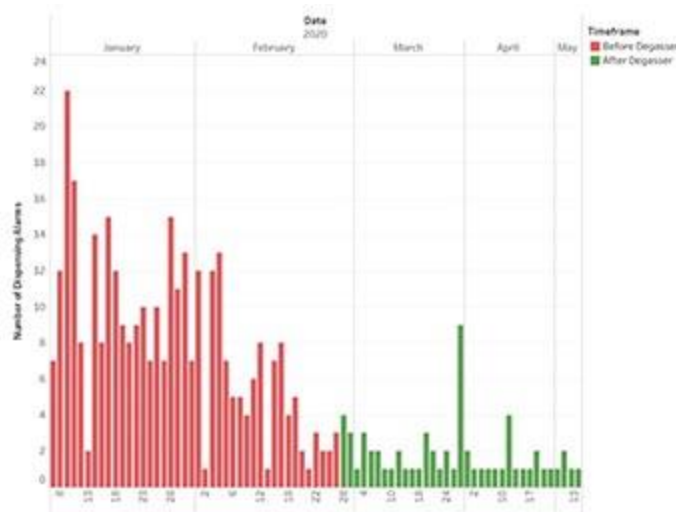


Image captions: B: Dispensing errors before (red) and after (green) introduction of degasser

The DEGASi® Plus semi-prep degasser

is designed to efficiently remove gas bubbles from processes operating at flow rates of 3-6 mL/min. This high-performance inline degasser is equipped with 1-6 chambers with a biocompatible flow path of 925 microliters for both aqueous and organic fluids.

For further information

on the DEGASi® Plus semi-prep degasser please visit <https://biotechfluidics.com/products/degassing-debubbling/degasi/degasi-plus/degasi-plus-semi-prep/>

To discuss development

of an inline degassing system for your diagnostic kit production line contact Biotech Fluidics on + 46 300 56 91 80 / + 1-612-703-5718 / info@biotechfluidics.com.

Biotech Fluidics

is a leading supplier of fluidic system solutions, liquid transfer components, degassing systems, and innovative laboratory technology to instrument developers, manufacturers, and distributors all around the world. The company's mission is to empower its customers by designing and assembling unique products, being a reliable



partner, offering first-class service, in-depth knowledge, and offering advanced technical support for all the items it provides. More information - <http://www.biotechfluidics.com>

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