Anton Paar

Nova
Nitro ReGen

Nova Series

FIND OUT MORE

www.anton-paar.com/apab-nova-nitro-regen

Nova Nitro ReGen:
Instantly convert liquid nitrogen to a pure, continuous gas stream.

Nova Nitro ReGen:
A new way of providing nitrogen for BET measurements

Anton Paar's innovative Nova Nitro ReGen feature channels the pure nitrogen gas evaporating from its Dewar to the instrument for use in experiments. This eliminates the need for cylinders and simplifies setup while delivering accurate, repeatable BET results, as well as reducing environmental impact and lab costs. Existing Nova units can be easily converted with a software update and a specialized gas inlet tube.

Nitrogen, delivered in bulky, difficult-to-ship cylinders, is the most commonly used gas for adsorption experiments.

This gas must be absolutely pure and available in a steady stream for precise, repeatable results.

BET and other surface area measurements performed on gas adsorption instruments require cryogenic temperatures that are often achieved using liquid nitrogen.

The Nova Nitro ReGen gas inlet tube is immersed in liquid nitrogen. As the liquid advances upward, (indicated in red), temperature changes instantly transform the liquid into a pure, continuous gas stream. The gas travels into the instrument manifold, (indicated in blue), where it is redirected to the analysis station(s).

Highlights

- → Save the cost of procuring gas cylinders and setting up gas lines
- → Minimize the time needed for setting up the instrument and the space required in your lab
- → Participate in green initiatives by recycling nitrogen and reducing your carbon footprint
- → Trust the reliability of Nova results - consistently pure nitrogen produces consistently precise results