Microplates Porvair Evaporators Remove Solvent Evaporation From Microplates Before Analysis

Microplates Porvair Evaporators can remove solvent evaporation from microplates before analysis or reconstitution in a storage buffer. According to Microplates, these evaporators give significant throughput advantages to laboratories looking to optimise microplate sample preparation productivity.

It is also faster than centrifugal evaporation, significant increases in sample throughput are achieved through advanced evaporator head technology and innovative manifold design, which directly injects heated nitrogen into each well of the microplate simultaneously.

The evaporators have been designed to be simple to install, operate and maintain. Installation requires only connection to a gas supply or cylinder and mains electricity. Safety of operation is ensured as the CE marked compact units fit into all fume cupboards. However, it is not suitable for high boiling solvents such as DMSO and water.

So, the evaporators – The MiniVap® and MiniVap® Gemini may be operated with a supply of clean, dry compressed air in place of nitrogen, if the chemistry allows. An in-line gas filter must be used in this case.

There are also other evaporation products such as; the Blowdown Evaporator Ultravap Levante and the Blowdown Evaporator Ultravap Mistral.

The Ultravap® Levante brings you many of the benefits associated with the flagship evaporator, the Ultravap® Mistral, yet in an affordable, automation-ready package.

There is no in/out plate shuttle, but they are still fully programmable and easy to control from a robot liquid handler. It can also be fitted with the ducted fan fume extraction option, similar to the Mistral, and shares most of the software features including full-colour touch screen, stores alphanumerically named programmes (5 programmes), multi-step evaporation programmes (3 steps) and full administrative control (user or admin levels).

Microplates also state that the ‘removable acrylic splash guard protects the user and ensures efficient removal of solvent vapour from the evaporation table, while the solid-state power supply enables the unit to run from either 110v or 220v without an external transformer.’ There is no CAN bus control on the Levante.

The other important evaporator from Microplates is the Blowdown Evaporator Ultravap Mistral. The Ultravap® Mistral from Porvair Sciences is designed to remove the traditional laboratory ‘bottleneck’ of solvent evaporation from microplates. Fully automating the dry-down step has always been impossible because it is difficult to interface liquid handling robots with traditional centrifugal type evaporators.

The Ultravap® Mistral design, by dispensing with the rotating arm of the centrifuge and offering a fully flat front profile, overcomes this problem and is much better positioned to link with your robot. With more than 20 years’ experience in producing good quality deep microplates, Porvair Sciences has thoroughly researched the problems of drying down organic solvents in plates. This has led to the ultimate microplate blowdown evaporator – the Ultravap® Mistral.

The Ultravap® Mistral can be operated with a supply of clean, dry compressed air in place of nitrogen, that is if the chemistry allows for it. According to Microplates, the new Ultravap® Mistral is the latest development of Porvair Sciences' highly successful Ultravap® line of blowdown evaporators and sample concentrators.

Get in touch with Microplates today if you are interested in a nitrogen evaporator, nitrogen evaporation or you would like to know more about evaporating solvents using nitrogen itself. You can email the team at Microplates at , or you can go online to their website and their page about evaporators and read more at https://www.microplates.com/evaporators/.

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