



EVAPORATORS

AVAILABLE IN IRELAND
FROM LABSERVICE PROVIDERS



LabService
Providers



LabService Providers is the distributor for Hettich evaporators in Ireland.

The CombiDancer / DancerPlus is a compact and highly efficient instrument used for the evaporation of solvents - a key process step for many sample preparation applications or when using new technologies, such as combinatorial chemistry or High Throughput Screening (HTS).

The DancerPlus is the standard model. The CombiDancer is robot capable, can control the vacuum pump, and has 99 programming positions.

- 3 to 10 times faster than conventional vacuum centrifuges.
- User friendly, with viewing window.
- Facilitates various sample containers without balancing.
- Ideal for aggressive solvents such as TFA, DMF, DMSO.
- Quick and easy rack replacement.
- Can be controlled via PC.
- Heat-able shaking plate.
- Easy maintenance.

COMBIDANCER

The evaporation process is precisely controlled via sophisticated pump technology. The chemically resistant diaphragm pump operates without oil or hysteresis. The vapour pressure sensor records and controls all boiling points for solvent mixtures. Together with the intelligent PoleStar cold trap, this is the ideal prerequisite for optimal working conditions. The environmentally friendly PoleStar cold trap facilitates freezing evaporated solvents at -45°C . At the end of the sample series, the PoleStar cold trap can be automatically emptied and dried via the defrosting mode. Perfect for the full automation of the sample preparation.



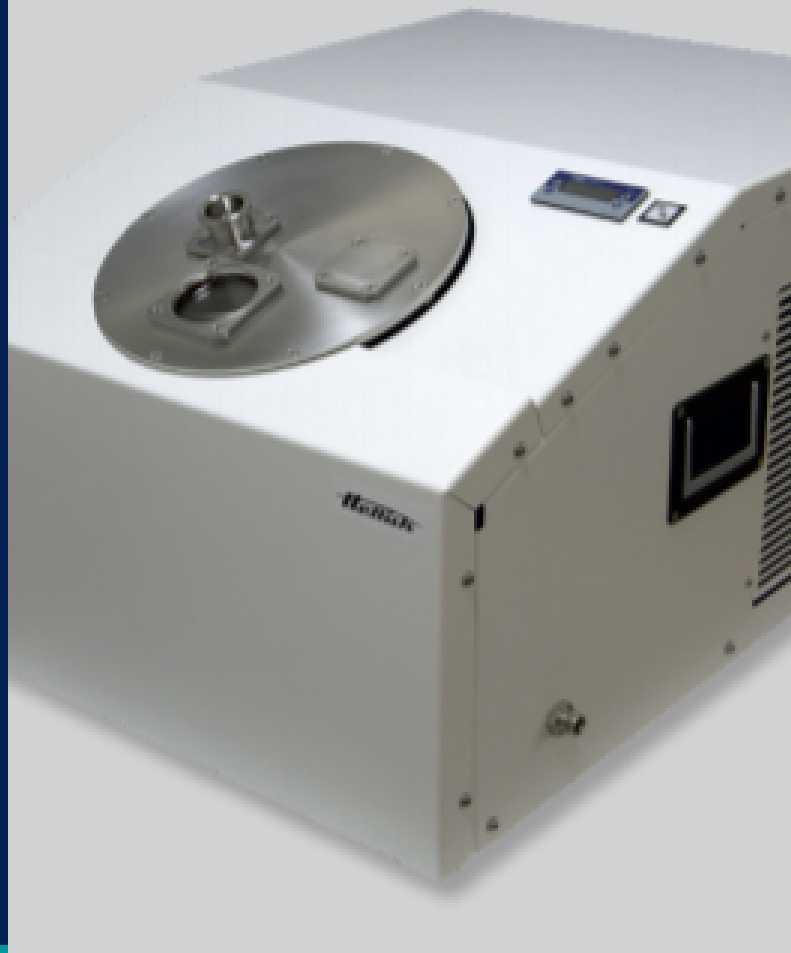
DANCERPLUS

The racks are heated in the vacuum and orbital-shaken (vortex). This evaporates the samples quickly and effectively. The rack is mounted on the base plate. The patented, contactless drive of the base plate facilitates the loading and removal of the samples. In addition, these neither have to be balanced out nor specially positioned. In particular, this is an advantage for HPLC gradients. A temperature sensor installed within the vacuum space measures the sample's drop in temperature and controls the infrared lamps located in the device cover.



POLESTAR COLD TRAP

The PoleStar is a device which fulfils the highest demands and guarantees the greatest flexibility for the recovery or condensation of solvents. The functional principle is an internal cooling circuit which is capable of cooling a spiral-shaped cooling coil to -45°C . An integrated, adjustable quick-defrosting system enables 5 mm-thick layers of ice to be defrosted within a few seconds. The PoleStar has a capacity of approx. 3.3 litres (liquid). The collected condensate is discharged via a valve. During maintenance, it is important to ensure that the condenser's fins are dust free. The device otherwise requires practically no maintenance.



VORTEX

The orbital-shaking (vortex) of the sample decisively increases its surface and keeps it constantly moving. Samples that evaporate at different speeds also present no problems (variable from 0 rpm to 1000 rpm). Imbalance is avoided via good thermal distribution which accelerates the evaporation process and reduces sample foaming. Careful heating eliminates the risk of icing.

VACUUM

The VarioTM vacuum system generates an optimal vacuum environment. The intelligent control system minimises delayed boiling via continuous adaptation of the pump frequency to the evaporation process. It automatically detects the changing vapour pressure of the solvent to be evaporated and optimises the pump's working parameters.

HEATING

The sample surface is heated via infrared lamps in the sample area in the lid. The stainless steel side wall of the evaporator's inner vacuum chamber prevents the solvent from condensing in the sample area. Temperature control of the shaking plate is provided at the base of the sample container. This allows a dosed heat to be applied to the evaporation process. Both models are also suitable for light-sensitive or thermally labile samples, since all heating requirements are independently and precisely controlled.





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