

CombiDancer

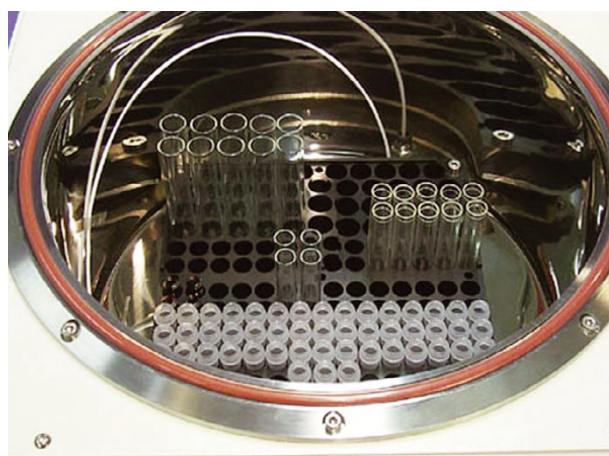
A high speed evaporator for precise evaporation control

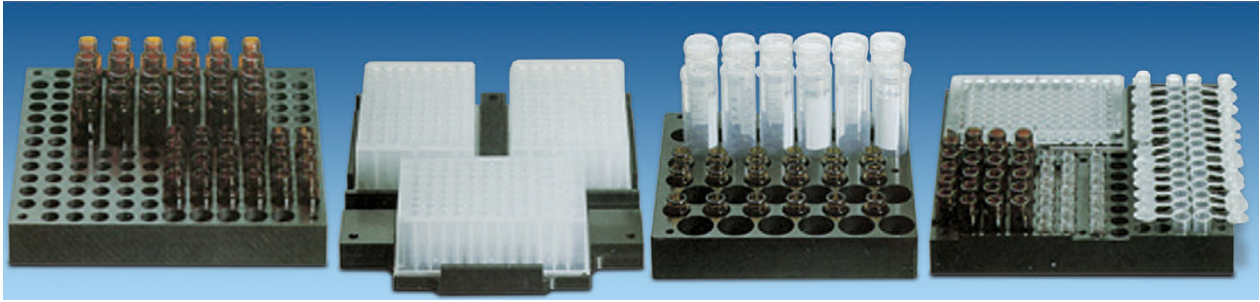


Evaporating large numbers of samples efficiently is an important step in sample preparation in e.g. solid phase extraction in the analytical laboratory, in combinatorial chemistry, high throughput screening or when employing new technologies. Samples must be processed rapidly, reproducibly and in a controlled manner to ensure their structural integrity is maintained. With its sophisticated pump technology for the precise control of evaporation (complying with GLP and GMP), CombiDancer can evaporate highly volatile solvents such as methanol or ethanol, water or less volatile solvents such as dimethylformamide (DMF) or dimethylsulfoxide (DMSO), or solvent mixtures even containing water, both rapidly and reproducibly.

CombiDancer utilises a combination of heating, vortexing, and vacuum in the evaporation process unlike the more common centrifugation technique. Vortexing has various advantages over centrifuging - it enlarges the evaporation surface distributing the heat evenly in the sample and there is no compression of the gas phase. CombiDancer can work with any vacuum pump, however we recommend the Vacuubrand PC 3003 VARIO diaphragm pump for the precise control of the evaporation process.

The samples are uniformly heated by infrared lamps (1,000 W). An independent compartment heater prevents the condensation of solvents with high boiling point in the vacuum chamber. The actual temperature can be measured directly in the sample by means of a PTFE-coated temperature sensor. All heating, vortexing and vacuum parameters can be programmed and controlled separately.





Vortexing:

- No balancing of the samples
- No compression of the gas phase
- No rotating parts

Heating:

- Heating of the sample surface
- Independent compartment heater
- Measurement of sample or rack temperature

Vacuum:

- Automatic vapour sensor
- No hysteresis
- Controllable pump frequency

Sample Racks

For high volume routine operation a wide variety of sample racks are available. CombiDancer racks are designed to accommodate various standard sample tubes and up to four deepwell plates. All racks are made of anodized aluminum. Racks can be customized to fit your specific tube or a combination of different sized tubes.

Technical Specifications

Maximal load:	4.5 kg (incl. base plate and rack)
Maximum sample height:	150 mm
Vortexing speed:	200 - 1200 rpm (dependent on weight)
Temperature control range for sample heating:	ambient to 80°C
Interface:	RS 232
Connector vacuum pump:	DN25
Vacuum chamber:	stainless steel V4A, 360 mm diameter,
Weight:	approx. 80 kg
Power requirement:	230 V, 50/60 Hz, 1.89 kVA
Dimensions mm(WxDxH):	
Lid closed:	765x695x470
Lid open:	930x695x470
Cat No.	7003002