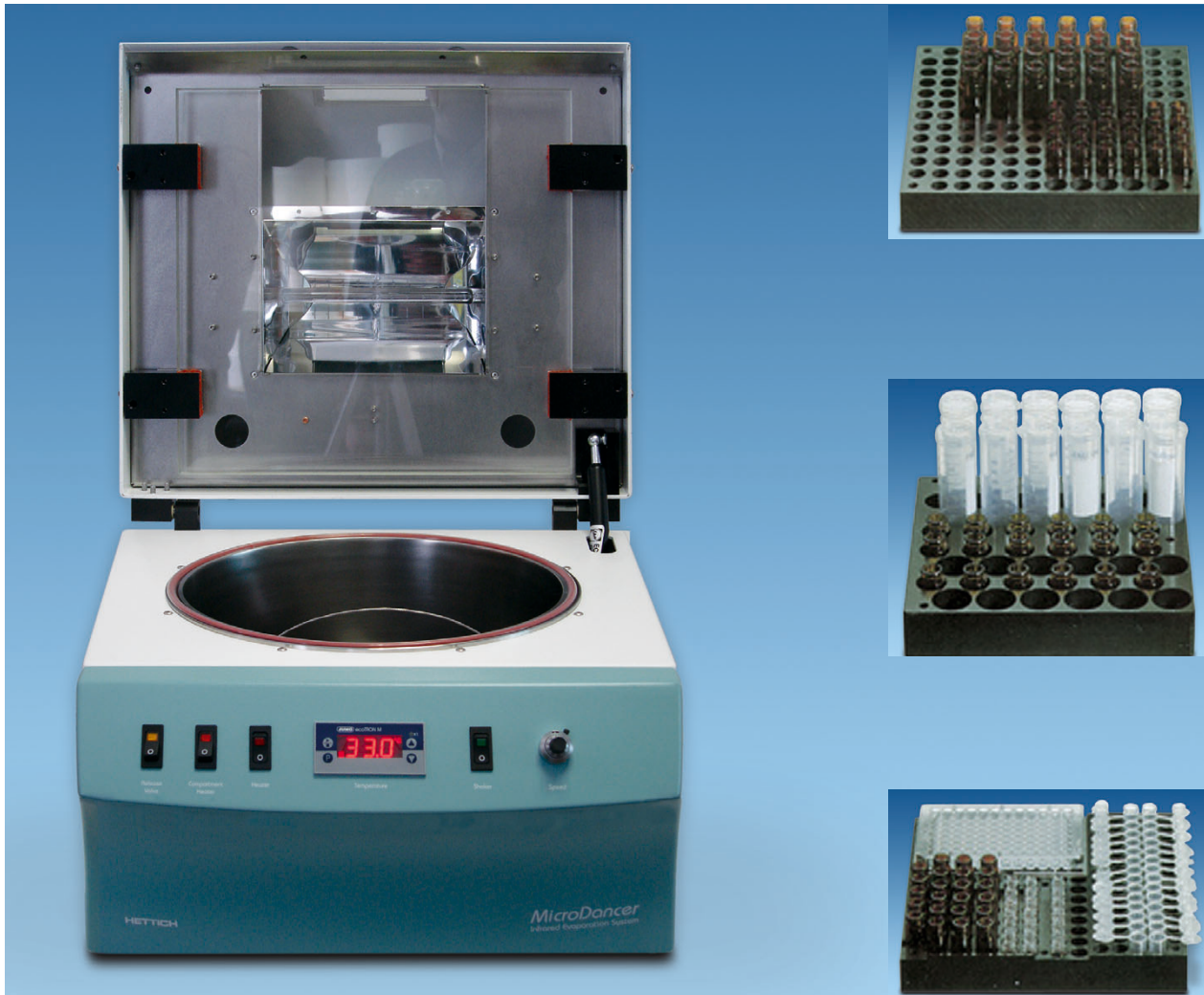


## MicroDancer

An economical, efficient Evaporator



### 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

MicroDancer is a compact and efficient solution for the evaporation of solvents - an important step in sample preparation, e.g. for solid phase extraction in the analytical laboratory, in combinatorial chemistry, high throughput screening and when employing new technologies.

MicroDancer utilises a combination of heating, vortexing, and vacuum in the evaporation process unlike the more common centrifugation technique. Vortexing has numerous advantages over centrifuging - it enlarges the evaporation surface and distributes the heat evenly in the sample.

MicroDancer can evaporate volatile solvents such as methanol or ethanol, water or less volatile solvents such as dimethylformamide (DMF) or dimethylsulfoxide (DMSO), and even solvent mixtures containing water, both rapidly and reproducibly. MicroDancer can work with any vacuum pump, however we recommend the Vacuubrand PC 3003 VARIO diaphragm pump for the precise control of the evaporation of less volatile solvents and solvent mixtures.

Samples are uniformly heated by an infrared lamp (500 W). An independent compartment heater (60°C) can also be enabled to prevent 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. The vortexing speed as well as the temperature of the sample heating can be controlled manually.

#### **Sample Racks**

For high volume routine operation a wide variety of sample racks are available. Up to 2 deep well plates can be placed directly on the vortexer.

All racks are made of anodised aluminium.

Racks can be customized to fit your specific tube or a combination of different sized tubes.

## **Technical Specifications**

**Maximum load:** 3 kg  
(incl. racks and base plate)

**Maximum sample height:** 115 mm

**Vortexing speed:** 40 – 1,000 rpm  
(dependent on weight)

**Temperature control range for sample heating:** Ambient - 80°C

**Connector vacuum pump:** DN25

**Vacuum chamber:** stainless steel V4A, 300 mm diameter

**Power requirement:** 230 V, 50/60 Hz, 940 VA

**Dimensions (WxDxH):**

Lid closed: 442x500x393mm

Lid open: 442x611x695mm

**Cat No.7004002**