

# POWERVAP®

Fully automated rotary evaporators



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# Mentionable features

**POWERVAP® is a patented, fully automated pendulum system rotary evaporator with distinguished vacuum stability and distillation rate**

Automatic filling and draining of the rotating flask (patented)

Automatic emptying of the distillate vessel (patented)

Achievement of the desired product concentration

Precise regulation of the distillation process. Temperature, vacuum and other process parameters are monitored in order to handle even foaming products reliably

Computerized reflux and standby option

The rotating flask floats freely in the heating bath which enables the measurement and monitoring of its content (by inclinometer system)

Hydraulic damping system for rotating flask and drive unit to allow optimized powder drying (patented)

Surface treated glass flange assemblies to achieve the highest vacuum stability

Supervision of steam temperature with automatic regulation of heating bath temperature

The advanced sealing system leads to an excellent solvent recovery rate (by minimizing pump losses)

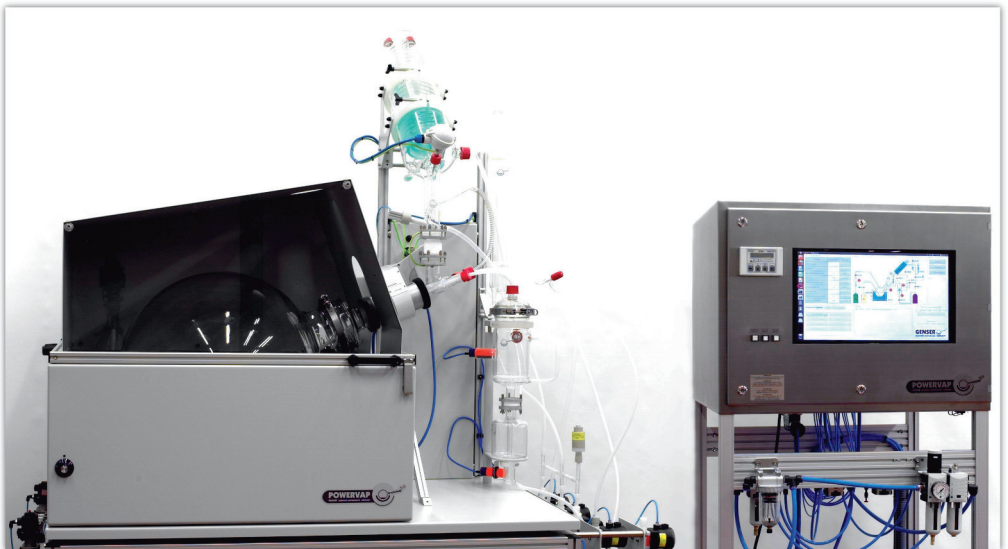
## High performance sealing system

- Sealing made of PTFE-glass compound
- Life expectancy about 20000 operating hours
- 3 years warranty
- Final vacuum better than 0,1 hPa (machine in dry condition)
- Leakage < 5 hPa/h (machine in dry condition)  
Leakage < 2 hPa/h with HCR high performance PTFE-sealings (optional)

# Overview - POWERVAP®

## POWERVAP® - Rotary evaporators

- ... offer five times the distillation rate of conventional rotary evaporators with same size of rotating flask
- ... ensure an unattended, safe and continuous operation (24h/day)
- ... are also available in explosion proof version according to ATEX



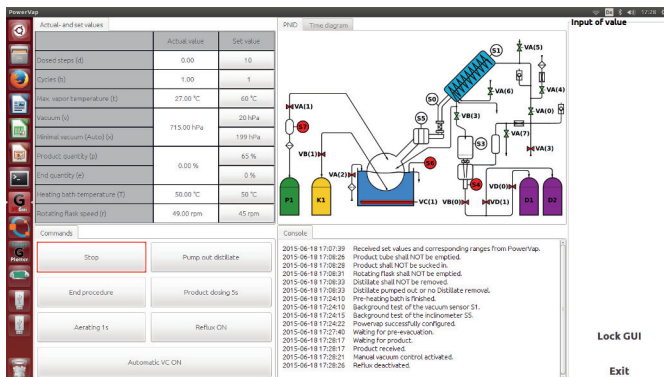
(explosion proof rotary evaporator POWERVAP®)

## POWERVAP® applications

- Excellent solvent recovery
- Unproblematic distillation of high-boiling solvents
- Concentrating of extracts
- Powder drying
- Concentration of fractions from the preparative HPLC

# Graphical user interface SENTINEL

The newest user interface to control our rotary evaporators comfortably



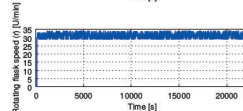
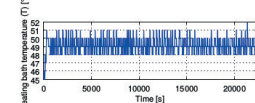
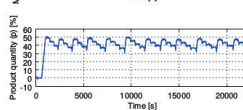
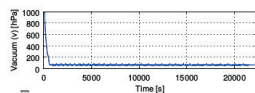
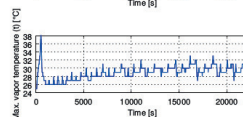
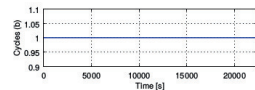
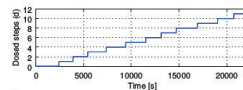
- Tabular input/view of set/actual values
- Using predefined commands to control the system
- Graphical representation of sensors and valves in a PNID

- Logging of all system events
- Logging of all system values for further data analysis
- Creating and executing complex control tasks with our own script-language

## Process optimization

All system parameters are saved into CSV files constantly.

Afterwards, programs like Matlab, Octave or even Microsoft Excel can perform a detailed evaluation.



Our local dealer:

