

Drytec - Pharma

- Freeze Drying Plants
- Vacuum Dryer
- Rotation Freeze Dryer
- Centrifugal Vacuum Dryer



**...more than 25 years
of experience!**

Your qualified
producer of autoclaves
and Freeze Drying Plants
for laboratory, medicine, pharma
and industry

ZIRBUS
technology

Freeze Dryers and Vacuum Dryers

e.g. Sublimator 2x3x3,
for product development,
0,2m² shelf area

- » Pilot plants 0.2 up to 2m² shelf area
- » Production plants up to 30m²



7m² shelf area,
cGMP Freeze Drying Plant,
incl. CIP, SIP and hydraulic shelf movement

Our possibilities:

- » Two chamber system with separation valves
- » shelf area up to 30m²
- » compressor and/or LN cooling up to -150°C
- » condensers up to a capacity of 800kg/24h condensers for solvents
- » Sterilisation in place (SIP), cleaning in place (CIP)
- » process visualisation SCADA with SIEMENS WinCC
- » stoppering system for vials
- » chamber door „pizza“
- » Ex-proof acc. Atex 94/9/EG
- » GMP conform execution 21CFRpart11 Pharmaceutical field
- » documentation IQ/OQ/DQ/PQ qualification
- » software validation acc. to GAMP5

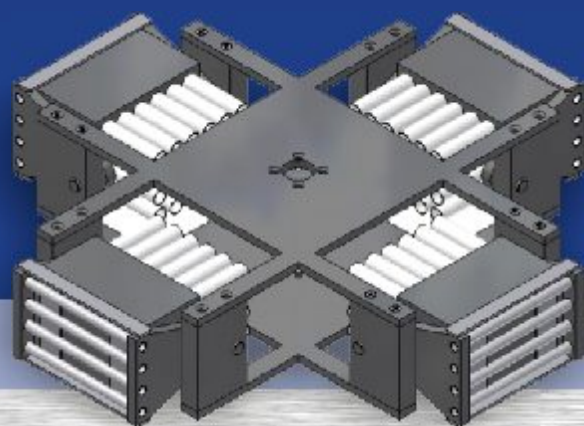
Centrifugal vacuum dryer for research

In the field of combinative Chemistry, sample preparation, HPLC

From 8 to 36 DWPs, racks 280x160mm, tubes to 160mm height



Suitable for Acetonitril/water,
DMSO, DMF, Ethyl Acetate,
Cyclohexan and
Dichlorethan/Methanol



Our possibilities:

- » directly flanged condensors with big admission
- » Double bearings for the rotor shaft
- » Infrared heater, drying chamber completely heated (incl. lid)
- » Air-cooled or water-cooled refrigerant plant, free of CFC
- » oilfree vacuum pumps
- » racks swivel around 90 ° completely
- » Freely programmable control with 10 programmes, Siemens or similar
- » solvent resistant completely made of stainless steel / PTFE
- » Different enclosures available, 3-levels, ASV-Gilson-rack, etc.
- » Ex-proof execution

» Freeze Dryer with Isolator connection



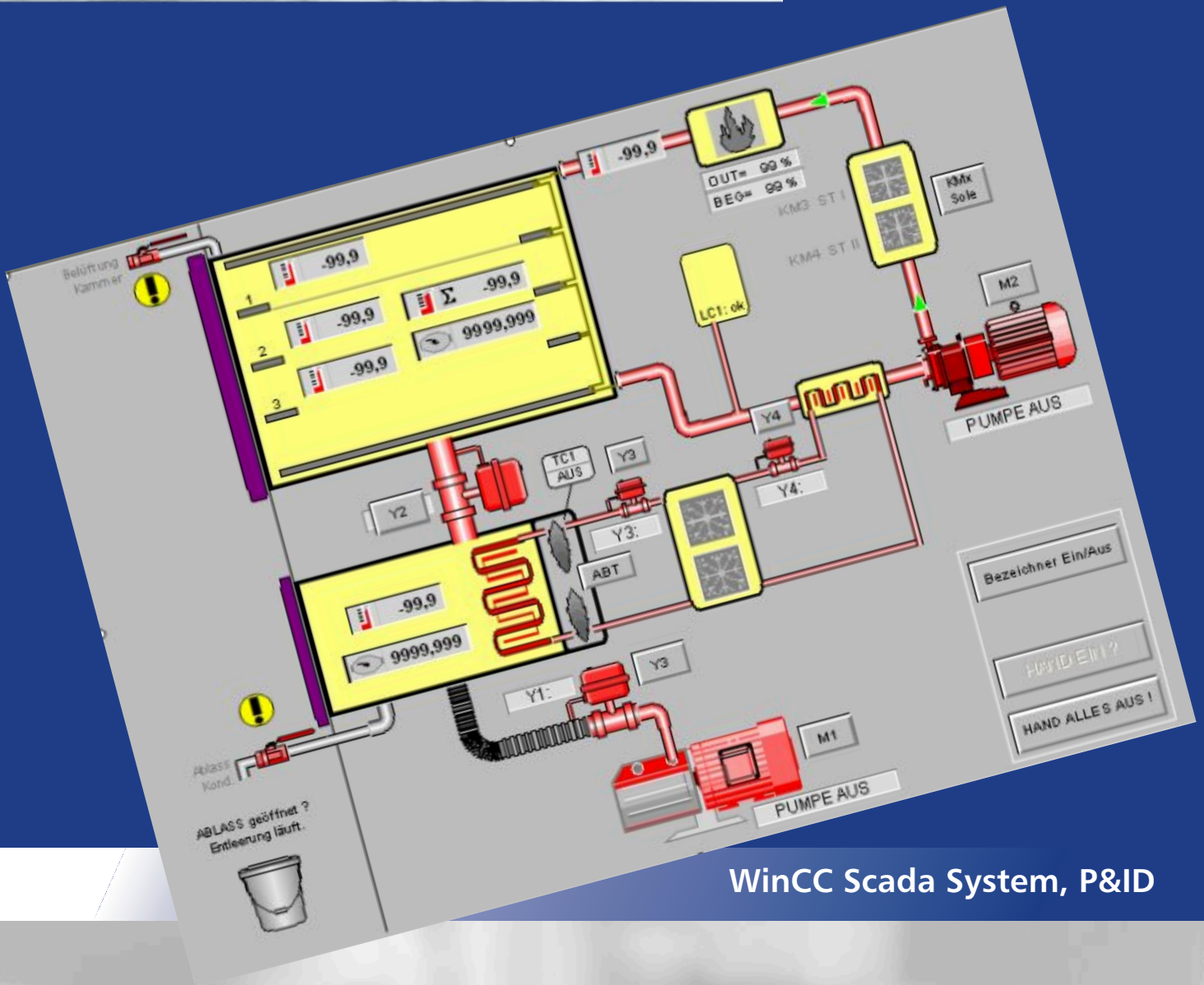
« Rotation freeze dryers



Our advantages

- » All plants completely manufactured in Bad Grund, Germany, incl. production of the shelves and vacuum chambers
- » High flexibility, customised devices
- » Special vacuum chamber and shelf construction method for weight saving and therefore energy saving production
- » General application of industrial components of well-known German and European manufacturers as for example Bitzer, Leybold, Siemens, Jumo....
- » 24-hour-service

Siemens - control system



WinCC Scada System, P&ID



HMI - Touch Panel

We are available for you wherever you are:

Our products are used all over the world.
No matter where our devices are, our more
than 40 sales partners take care for professional
and reliable customer care and service.



Your local partner:



DIN EN ISO 9001:2000
EN ISO 13485

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