

Operating Instructions freeze dryer

Building: SupraFAB

Area of application:
Freie Universität Berlin
Altensteinstr. 23a



Operating Instructions – Working freeze dryer (Alpha 1-2 LD Plus)

According to Occupational Health and Safety Regulation

Work space: SupraFAB

Work station: Room 114

Hazards for people and the environment



Glass containers under vacuum can implode.
Risk of injury from flying glass splinters and liquid splashes.
Risk of spilling hazardous substances.



Protective measures and rules of behaviour



Document the use of the device.
Negative pressure maintenance by means of a controlled diaphragm pump.
Only dry aqueous solutions/dispersions.
Samples must be frozen beforehand.
Open valves very slowly to protect the pressure sensor.
The diaphragm pump must be checked for discoloration each time it is used.

Behaviour in case of danger



Switch off instrument.
Do not try to repair or manipulate electrical parts.
Depending on the distillation product, immediately take a body shower and wet all affected areas with sufficient water, rinse eyes for at least 10 minutes.
In case of fire call 112 or 55112
Inform lab responsible persons

First aid



Inform first aiders (see alarm plan). Treat minor injuries immediately and enter them in the first aid book.
In the event of more serious injuries, consult a general practitioner or call an emergency doctor.
Inform the workshop management.
Rescue service: **112**

Proper disposal -Inspection

Replacement parts may only be used if the material and design are equivalent to the original.
Consider the maintenance plan of manufacturer.
Repairs may only be carried out by authorised, qualified persons.
In case of spilling biohazard material clean according to the hygiene plan. If needed wear a mask and inform (other) users of the lab and lab responsible persons.

For further questions, please contact the Occupational Safety department

Tel.: -54495

Signature and date of the division manager: