

2024-05-16
Signature:

OPERATING INSTRUCTIONS

UNIVERSITÄT
DUISBURG
ESSEN

Offen im Denken
Fakultät für Chemie

working area: AAC

working place: S05T01B52

TOOL

Eppendorf Concentrator plus

RISKS FOR HUMANS AND THE ENVIRONMENT



Hazards may occur due to unbalance of the rotor. Thereby, the centrifuge can start to move and threaten people directly. Furthermore, vessels can be damaged by the imbalance and they may leak their content. This may damage the centrifuge and / or lead to hazards of the laboratory personnel by vessel parts and the leaked substance.



Damage to health due to infectious liquids and pathogenic germs.



Risk from Damage to the device or main cable.



Risk of injury when opening or closing the centrifuge lid.



Risk of damage to the device, rotor, lid or caps while using aggressive and explosive chemicals or mixtures.



Risk of injury from overloaded rotor



Risk und damage to device due to spilled liquids.



Device damage due to organic solvents!



Risk of overpressure at the outlet of the condensation separator.



Danger of combustion due to hot reaction vessels and parts of equipment.



PROTECTIVE MEASURES AND RULES OF CONDUCT



Absolutely work according to the operating manual,



familiarize yourself.



Load rotors symmetrically perhaps with counterbalance.

Ensure that tubes that are located in opposite vessels contain liquids with same rate of evaporation.

Do not exceed the maximum load of the rotor and tighten it well with the special rotor wrench.

Use the rotor adjusted to the volume.

Don't move the device during operation.

Avoid the use of explosive, aggressive or hardly reactive materials.

Do not use substances that can produce an explosive mixture.

Pay attention to the service life of rotor and seals according to the manual.

Observe the biological safety level and safety data sheets for infectious material and disinfect the centrifuge. Use appropriate rotors and caps.

When opening and closing the centrifuge lid, do not reach between the lid and the appliance.

Avoid strong and weak alkalis, strong acids, solutions containing mercury, copper and other heavy metal ions, halogenated hydrocarbons, concentrated salt solutions and phenol.

Do not touch the walls of the rotor chamber, whose surface may be 60 ° C.

Ensure that the emission condenser is connected correctly.

Never block this connection!

RESPONSE TO MALFUNCTIONS



Shut down device immediately, faults must be reported to:

- Constanze Dietrich Tel.: 1834559
- Dr. Sven Meckelmann Tel.: 1833295
- Prof. Dr. Oliver Schmitz Tel.: 1833950

BEHAVIOUR IN CASE OF ACCIDENT / FIRST AID



- Keep calm.
- Consult first-aider.
- Emergency call: 0112
- Report accident.

MAINTENANCE / DISPOSAL

- Service only by technical supporters.
- Switch off and disconnect from electric supply network.
- Routine control of expaendable parts.