

2024-05-16

Signature:

Operating Instructions

According to the
Betriebsicherheitsverordnung

UNIVERSITÄT
DUISBURG
ESSEN

Offen im Denken

Faculty of Chemistry

Institute: AAC

Work place: AAC Labs

EQUIPMENT

Büchi Syncore

DANGERS FOR HUMANS AND ENVIRONMENT



- 30 kg heavy,
- vacuum,
- various solvents
- Surfaces of the appliance can become very hot; risk of burns.
- Hand injuries possible
- Warning of electrical voltage
- Breakage of glass can cause severe cuts
- Warning of explosive substances
- Dangerous vapours may be produced during distillation which can lead to life-threatening poisoning.
- Dangerous vapours may arise during distillation which can lead to life-threatening poisoning.
- Hair, clothing or jewellery can get caught in the rotating parts if they come into contact with them.
- At high speeds, the heating liquid can spray out due to the rotation.

PROTECTIVE MEASURES AND RULES OF CONDUCT



- Read and observe the operating instructions
- Install the appliance correctly
- Handle glass components carefully and check before each use.
- Only use suitable glass components that are suitable for vacuum.
- Always place glass accessories in suitable holders when not in use.
- Do not use damaged glass components.
- Check the appliance regularly for visible damage.
- In case of malfunctions, switch off the appliance immediately and disconnect the power supply.
- Do not use damaged appliances any more.
- Read and observe the operating instructions
- Install the appliance correctly
- Handle glass components carefully and check before each use.
- Only use suitable glass components that are suitable for vacuum.
- Always place glass accessories in suitable holders when not in use.
- Do not use damaged glass components.

- Check the appliance regularly for visible damage.
- In case of malfunctions, switch off the appliance immediately, unplug the power supply.
- Do not use damaged units any more.
- Do not touch hot surfaces or wear appropriate protective gloves.
- Do not use solvents that can react with each other if they come together in the post-capacitor.
- Clean solvent residues from the post-condenser after each use.
- No ignition sources in the immediate vicinity of the pump system outlet.
- No kinked hoses on the output side.
- Do not operate the unit if solvents may have entered the interior. Allow to evaporate completely in the fume cupboard.
- If the unit is operated with aggressive and toxic or allergenic chemicals, it must be placed permanently in a fume cupboard.
- When working with strong acids or bases, it may be necessary to wear a protective apron and face shield in addition to personal protective equipment. If strong acids or bases are distilled, it is recommended to rinse the pump after application.
- There must be no containers, chemicals or other equipment behind, next to or above the unit.

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

BEHAVIOR IN CASE OF ACCIDENT / FIRST AID



- Keep calm.
- Call first responders.
- Emergency call: 0112
- Report accident.

INSTANDHALTUNG / ENTSORGUNG

- Maintenance only by authorized, competent persons.
- Switch off the device and disconnect it from the mains.
- Regular inspection of wearing parts.