

2024-05-16

Signature:

## Operating Instructions

According to the  
Betriebssicherheitsverordnung

UNIVERSITÄT  
DUISBURG  
ESSEN

Offen im Denken

Faculty of Chemistry

Institute: AAC

Work place: AAC Labs

### EQUIPMENT

#### Agilent and Hitachi LC Systems

#### DANGERS FOR HUMANS AND ENVIRONMENT



- The unit complies with safety class I (with earth connection).
- **Danger of electric shock when opened during operation.**
- **If necessary, handle toxic, flammable and hazardous solvents, samples and reagents** (compliant with laboratory guidelines).
- **Danger of burns from hot surfaces** on the column oven.
- UV detector contains a deuterium lamp, the light of which **can cause eye injuries due to ultraviolet radiation** in case of direct eye contact (special precautions necessary).

#### PROTECTIVE MEASURES AND RULES OF CONDUCT



- Before switching on the unit, all earth contacts, extension cables, autotransformers and connected units must be connected via earthed mains sockets. Avoid multiple plugs if possible.
- If possible, all adjustment, maintenance and repair work on the opened unit should only be carried out when the unit is disconnected from the mains voltage. This rule can be overridden for trained service technicians. If this is the case, special care should be taken.
- Observe the hazards of organic solvents with the help of:
  - Data Safety Sheets, DAMARIS or GESTIS and applicable safety regulations must be observed in all cases.
- **The unit must not be operated in an explosive environment.**
- Before removing columns, switch off the pump so that no more running fluid flows.
- Keep the column oven closed during operation and allow it to cool down before touching it (e.g. removing a column).
- **Do not open the detector housing when the lamp is switched on.**

- Before using the LC, always obtain information regarding the chemicals used and act in accordance with the safety regulations.

## 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.