

Assembly Instructions

TITLE

Multi-Batch Screening
Photoreactor

ORGANIZATION

Institute of Chemical
Engineering Ulm University

DESIGNER

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INSTRUCTIONS

1) placement of the base modules: The base module is clipped to the the corresponding openings of the IKA Roller 10.

2) assembly of the irradiation module: The used SMD mounted LEDs can be fixed to the 300 mm aluminum heat sinks at variable positions in 20 mm steps. The LEDs are mounted at the precut heat sink threads (M3) using 2 M3 (5 mm) screws. The used LEDs are connected in a row, a 1 A fuse is incorporated in front of every module to protect the LEDs from higher currents. The irradiation modules are connected to the power supply using 4 mm banana plugs. The heat sink holder is mounted using 2 M3 (5 mm) screws.

placement of the irradiation module: The irradiation module stand is fixed for the heat sink holder using 2 M3 (25 mm) screws and corresponding nuts. After the assembly of the irradiation module is finished it can be clipped to the installed base module.

3) assembly of the reflector module: The PTFE side walls are mounted to the reflector holder using 4 M3 (8 mm) screws and corresponding nuts. The PTFE reflector is placed within the guideway of the reflector holder. The two reflector holder parts are connected using 4 M3 (10 mm) screws and corresponding nuts.

placement of the irradiation module: The reflector module is clipped on top of the irradiation modules.

