Microwave	Model:	*CEM Discover™ Focussed Microwave System*
	Unit and Room:	*Org./Bioorg. Chemistry, 2nd floor, R.323F*
	Responsible:	*Prof. W. Bannwarth, S. Scherbakow*
	Further information:	

Short Description:

Manual Single-Mode Cavity Design Microwave
Infrared temperature sensor
piezo-pressure-sensor
Interlock System inhibits microwave emission
stirring and cooling option
Power variable (0-300 W, +/- 30 W)
Temperature programmable from 25-250 °C

Picture of the Equipment

Available Experiments/Techniques:

Use of 5-125 ml reaction vessels for reactions done at atmospheric pressures.
Allows the use of septum-sealed 10 ml vials for high-pressure reaction conditions (up to 20 bar).
The Discover™ system controls reaction temperatures, pressures, and stirring speeds.

Special Equipment:

80 ml reaction vessel available

Measurements on the equipment are currently done by:	☐ Students ☒ Students after Introduction ☐ Students after extensive training ☐ Trained scientific service personal
Recent Publications, where this instrument was important (optional): Give citation	E.K. Kainmüller, W. Bannwarth; Helv. Chim. Acta, 2006, 89, 3056-3070
Typical problems that may be solved with this instrument:	For optimization of chemical reactions under controlled conditions on laboratory scale.