scCO2-Reactor	Model Unit and Room Responsible Furthe information	 Autoclave Engeneers Org./Bioorg. Chemistry, 2nd floor, R.323F Prof. W. Bannwarth r
Short Description:		Picture of the Equipment
High-pressure stainless-steel reactor equipped with a mechanical stirrer, a thermocouple, an internal manometer, and a sapphire window. The reactor possesses an inlet valve fitted with a 6-port HPLC valve for the addition of liquid substrates and an outlet valve for CO2.		
Available Experiments/Techniques: Solvent properties can be varied via pressure and cosolvents to have a detailed influence on the speed and selectivity of catalytic reactions. Simple work up, nearly solvent-free products, especially useful for thermic instable compounds or pharmaceutics.		
Special Equipment: Pickel's Original Supercritical Fluid Chromatography		
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		C. Tzschucke, C. Markert, W. Bannwarth, Roller, A. Hebel, R. Haag; Angew. Chem. 02, 114, 4136-4173 Bruns, W. Bannwarth, J. C. Tiller, technology and Bioengineering, 2008, 1, 19 - 26
Typical problems that may be solved with this instrument:		traction of natural products n be used as an environment-friendly d nontoxic medium gh solubility of organic fluorous npounds in scCO2

Methods, IOCBC, Bannwarth