



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076

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Technical Specifications of Continuous Flow Glass Microreactor

1. It should be portable and modular in nature
2. Microreactors should be manufactured in Glass with volumes less than 30 microlitres.
3. Should include different microreactors to perform various single stage, two stage, fixed type, gas liquid type reaction with preconditioning and premixing possibilities.
4. Working temperature range to be from -20 to 190 C or better with thermoelectric temperature control.
5. Should include four syringe pumps capable of dosing chemicals at a flow rate ranging from 0.1 to 25 microlitre per minute at 20 bar.
6. Adjustable back pressure regulator up to 10 bar
7. All the wetted parts should be of glass, ETFE, FEP and perfluoroelastomer.
8. It should come with digital pressure measuring set
9. It should come with two gas tight 1 ml Teflon luer lock syringes.
10. Sufficient and spare tubings, connectors, check valves and tools should be provided to assemble the whole system.