

Test Tube Reactors

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Contact Parr Instrument Company for more information.

This vessel has several test tubes arranged in it. Each is capable of being heated, cooled, and individually stirred. This allows the user to setup several variations of tests under similar conditions. This new product was introduced by Parr at the PittCon Show in March of 2000.

Combinatorial chemistry shifts compound design from a *one molecule at a time* approach to a rapid and often automated parallel synthesis of a focused library of compounds. Starting with a useful compound or molecule, pharmaceutical, agrochemical and biotech companies use these techniques and equipment to spin that "lead" into thousands of chemical variations. The resulting chemical diversity boosts the chance that a new compound will usefully react with a molecular target, for example, a disease causing molecule. Interest in the field of combinatorial chemistry and high throughput screening (HTS) has been growing rapidly over the last few years. The notoriety is partially a result of the number of drug candidates in clinical trials resulting from the use of combinatorial techniques. The recent availability of equipment to carry out parallel synthesis is spawning new excitement in synthetic, analytical and biological research. The field is expanding in many areas including natural products, zeolites, antibiotics, catalysis, biomaterials and polymers.