



Reactants Mixer

Reactants: gas or liquids

**At given condition: temperature,
pressure, humidity**

Safety controlled

**Process at concentration
down to 1 ppm or
1 ppb**

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Purpose

Reactants mixer is suitable for all application where special mixture of gases or liquids is needed e.g. artificial air with defined concentration of pollutants. Required fields are fuel cell testing, sensor testing or other chemical processes.

Fully automated and unattended operation

All functions of reactants mixer are controlled by computer and it is ready for remote control: especially all valves, heaters, mass flow control, pressure control, humidity control. System is fully automated enables unattended operation.

Capabilities

Custom designed lines are provided to meet demand specific requirements in order to minimize cost and increase efficiency of system. System enables to control concentration down to 100 - 1 ppm depends on application dynamically or semi dynamically down to 1 ppb.

Safety

System contains safety procedures as nitrogen purge and emergency shut down. Working range as temperature sensors are compared with safety limits that can be set. There are two levels of limits.

Reactants mixer

Controlled concentration	Down to 100-1 ppm depends on application
Reactants	Gas or vapors. Non-corrosive or corrosive
System	Dynamic control
Flow rates	Customized. Typically up to hundreds sccm
Gas humidification	Dew point up to 90°C, if it is required
Operating temperature	Max 120°C. Higher is optional
Operating pressure	6 Bar
Safety	Nitrogen purge, temperature and pressure limits, gas detector (optional), safety interlocks, blackout protection.

Extra precise solution

Controlled concentration	Down to 1 ppb.
System	Semi dynamic control

Detailed specification and price quotation on request.



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