

DeSO_x/DeNO_x BENCH SCALE UNITS

The reaction unit consists of the feed gas system, a fixed- and a fluidized-bed reactor, two three-zone furnaces controlled by PID controllers, one for each type of reactor and the gas analysis system. The fixed- and fluidized-bed reactors are connected in series and can be bypassed by the feed. In the fixed-bed experiments the flow rate of the inlet gas was 500 ml/min and the reactor loading was 2 g. In the fluidized-bed experiments the flow rate of the inlet gas was 1000 ml/min and the reactor loading was 10 g. Samples from the exit gas stream were analyzed to identify the gas products during regeneration using series of gas analyzers.

