

TCS Reactor Equipment

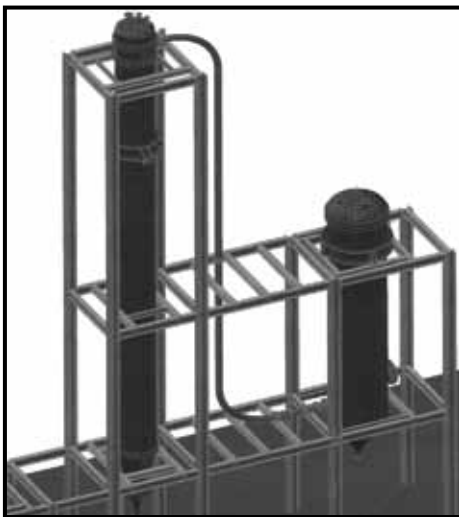
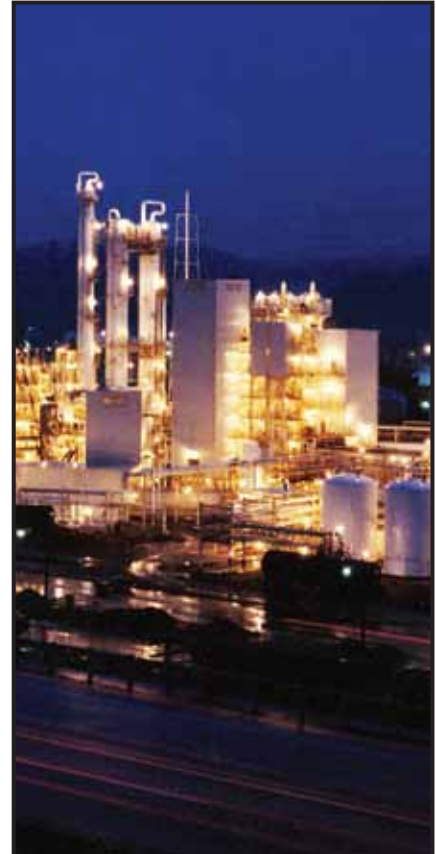
Silicon Chemical Corporation's (SCC) trichlorosilane (TCS) production reactor is a proven and reliable reactor system. Our experienced fabrication staff uses carefully selected materials and fabrication techniques to deliver a ready to assemble TCS reactor to facilities anywhere in the world.

Technology Advantages:

- Novel solids removal for low maintenance operation
- Simplified design which accelerates construction, commissioning, and start-up
- Hydrogen chloride (HCl) conversion of greater than 97% eliminates the need for effluent gas recirculation equipment resulting in lower capital cost, lower operating cost, and simplified operation
- Design based on a reactor that operated continuously for over 20 years with minimal scheduled maintenance
- Continuous operational improvements have optimized the design and kept the technology on the leading edge of the industry

Equipment Advantages:

- Reactor design reduces wear on metal parts
- Carbon steel construction lowers equipment cost
- Unique inlet and distributor system allows for optimal inlet conditions and internal flow
- High quality fabrication methods and materials
- Significant heat of reaction energy recovery in hot oil system
- Reactor system can pay for itself in operating cost savings within a short time period



SCC Provides:

- TCS production reactor
- Feed piping and inlet distribution system
- Solids removal unit and interconnection piping to the TCS production reactor
- Process technology package for ancillary equipment
- Support services for detailed engineering of the surrounding structure and piping
- Detailed installation and operations manual

The SCC Guarantee: The TCS production reactor guarantee covers the quantity and quality of produced material, as well as the efficiency of overall raw material usage.