

Product Description

The standard design glass-lined steel reactor for over 40 years, the SA series soldiers on into the 21st Century. The signature feature of the SA reactor is the large top head main cover. This "J" bolted opening was originally designed to accommodate installation and removal of the wide Retreat Curve Impeller (RCI). The RCI was the glass-lined steel industry's standard from the 1920's until the mid 1980's, when the introduction of the GlasLock® separable blade impeller made obsolete the RCI, and the need for a large top-head opening. Jacketed reactors are available with either a conventional jacket (SA) or with a HemiCoil® split pipe-coil jacket (CSA).

Upgrades Available

De Dietrich Process Systems' high efficiency glass-lined steel GlasLock® agitator easily retrofits all SA reactors. Upgrades of drives, mechanical seals, baffles and other accessories will equip your SA reactor for years to come.

Specifications

- Volumes from 300 to 25,000 gallons
- Pressures from full vacuum to 100 psig (6.7 bar)
- Temperatures from -20° F (-29°C) to 500° F (260°C)



SA-8000 in final assembly at the DDPS facility in Corpus Christi, TX

ADVANTAGES OF THE SA REACTOR SERIES

- Rugged heavyweight design
- Superior 3009 one formulation glass resists a wide range of chemical attacks
- Jacket inspection/cleanout port eliminates dismantling of jacket piping, allows fast inspection and cleaning of reactor jacket
- Narrow annulus jacket spacing provides quicker heat-up and cool-down
- Standard 3000-lb. ANSI forged-steel jacket couplings are stronger, with greater corrosion allowances than other manufacturers
- Large main opening easily accepts wide one-piece glass-lined, alloy or fluoropolymer coated agitators



Spraying the Glass

Here we see a skilled technician applying our high performance 3009 glass formulation to a welded-up SA reactor. The glass lining is sprayed on the prepared steel, and then moved into the furnace to “fuse” the glass and steel together, via mechanical and chemical adherence. The 3009 glass formulation offers superior corrosion resistance over a broad range of chemical applications.



Firing the Vessel

At De Dietrich, all furnaces for high temperature firing (baking) of glass lined steel equipment are all electric, whether located in Corpus Christi, Texas, Zinswiller, France or elsewhere in the world. These state-of-the-art furnaces have special multi-zone computerized programming, assuring precise control of sensitive time/temperature cycles during heating and cooling, for the best application of glass to steel. These sophisticated furnaces enable De Dietrich Process Systems to produce more “plug free” vessels than any other glass-lined steel manufacturer in the world.