

Repair of Glass Lined Tank

- Objective:** To heat selected areas of a glass lined steel tank to 1600°F in order to perform repairs of cracks and chips. The glass is used as a frit which must be reflowed and filled into the damaged areas. Temperature control is crucial due to the flow characteristics of glass. Crazing and cracking can result if heating and cooling occur too quickly or too slowly.
- Material:** Steel tank lined with glass measuring 34" in diameter and 1" thick.
Wet ground frit solution
Wet and dry cover coat frits.
- Temperature:** 1600°F
- Application:** The Ameritherm SP 15, 15kW output solid state induction power supply along with a unique eleven (11) turn pancake style coil were utilized to achieve the following results:
- 1600°F was reached in just over 15 minutes.
 - A slow heat ramp was used to optimize the glass flow.
 - A quality surface resulted after the proper heat cycle was established.
- Equipment:** Ameritherm SP 15, 15kW output solid state induction power supply including one (1) remote heat station containing eight (8) capacitors totaling 0.66 μ F, and a unique eleven (11) turn pancake style coil manufactured from 3/16" copper tubing formed to the curve of the tanks wall.
- Frequency:** 84 kHz

*Application Illustration Located on Reverse

Induction Heating Application Notes

