

# Induction Heating Repair Lined Steel Tank

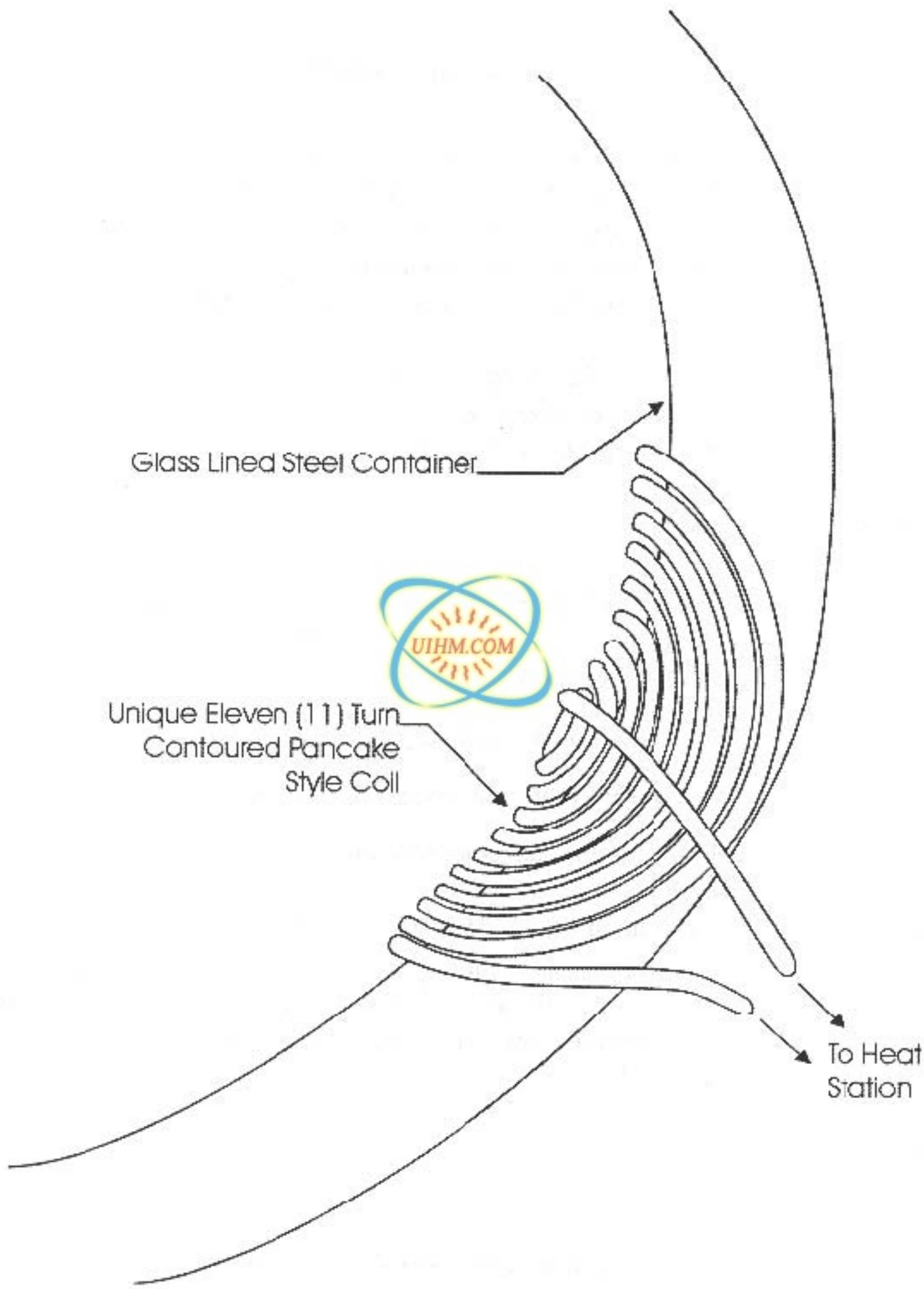
United Induction Heating Machine Limited

We are experienced in Induction Heating, induction heating machine, Induction Heating equipment. They are widely used in induction heating service, induction heat treatment, induction brazing, induction hardening, induction welding, induction forging, induction quenching, induction soldering induction melting and induction surface treatment applications  
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**Heating Repair Lined Steel Tank Objective:** To heat selected areas of a glass lined steel tank to 16000F 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. Crazeing 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:** 16000F **Application:** The Power of 25KW, 25KW output solid state induction power supply along with a unique eleven (11) turn pancake style coil were utilized to achieve the following results: # 16000F 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:** Power of 25KW, 25KW output solid state induction power supply including one (1) remote heat station containing eight (8) capacitors totaling 0.66  $\mu$ 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 **Repair Glass Lined Steel Tank**

[service@uihm.com](mailto:service@uihm.com)

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Glass Lined Steel Container

Unique Eleven (11) Turn  
Contoured Pancake  
Style Coil



To Heat  
Station