

# Induction Heat steel plates

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  
<http://www.uihm.com>

Heat steel plates Objective Heat steel plates on conveyor system in order to cook Welsh cakes.

Material Steel plate 760 x 440 x 10mm (29.9 x 17.3 x 0.4 in.)

Temperature 200 °C (392 °F)

Frequency 87 kHz

Equipment Power of 100kW induction heating system, equipped with a remote workhead containing one 1.3μF capacitor.

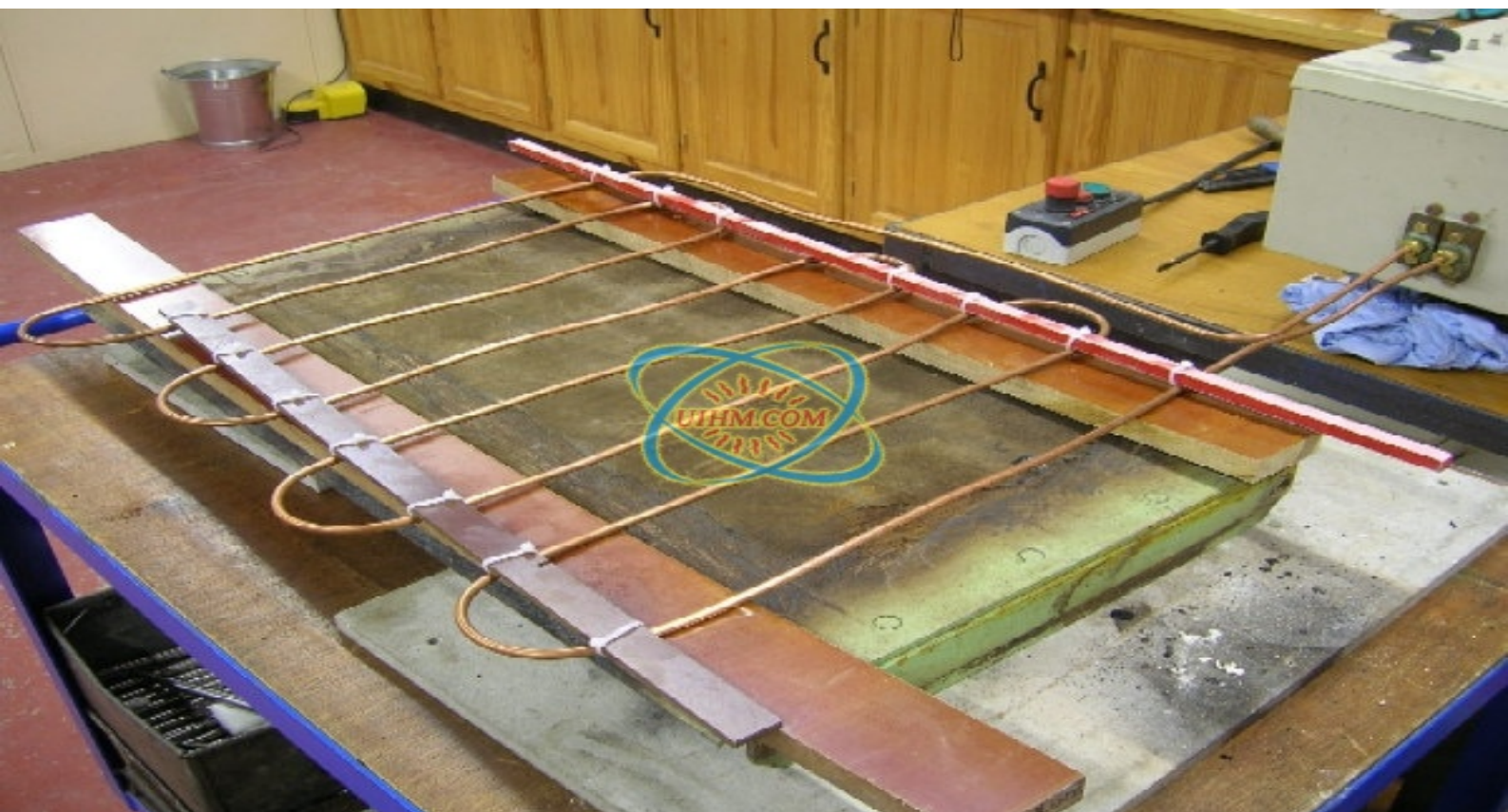
An induction heating coil designed and developed specifically for this application.

Process A flat serpentine heating coil under the steel conveyor system heats the steel plate to a uniform temperature of 200 °C (392 °F) in approximately 3 minutes. The Welsh cakes are placed on the hot steel plate and cook for 1½ minutes. The conveyor moves the cakes off the coil where they are flipped. A second pass over the coil cooks the other side.

Results/Benefits Induction heating provides:

- Clean heat directed only to the steel plates. Minimal heat is radiated to the adjoining areas.
- Safe, comfortable working conditions for the operators
- Lower operating cost compared to gas-fired ovens.

Reduced cost to run air conditioning system because less heat is released into the working environment. Heat steel plates



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