

Induction Cap Seal Container

United Induction Heating Machine Limited

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Objective To heat an aluminum in-cap laminate to a temperature of 350°F in order to seal the laminate to the container

Material 3.5" (100mm)

Temperature 350 °F (177°C)

Frequency 300 kHz

Equipment Power of 4.5kW induction heating system; custom-designed work coil; workhead including one .66μF capacitor

Process A single-turn helical coil generates the heating pattern for this application (see photo). The induction system heats the assembled lid-foil-container to the required temperature. The seal is achieved after ~1 second of heating.

Results/Benefits Economy: Power is applied directly to the foil; no energy is wasted heating the cap or the surrounding air or parts.

Automation: this heating system is easily integrated into automated processes

Control: the quality of the seal is ensured with the control of the heating system



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