



THORNE &
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Thermosafe[®] used with other containers

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THERMOSAFE[®] Induction Heater Type A Use with vessels other than 210 litre mild steel drums

When used with 210L mild steel drums, the single phase 240volts, 50Hz.A.C. current/power consumption at switch-on is approximately 21amps/2750watts, falling within minutes to approximately 18amps/2250watts.

It is not practical to **calculate** the current/power consumption with other vessels, and this should be established by actual measurement. In general the more magnetic material within the heater the lower the current drawn.

The vessels to be heated should be positioned within the heater before the supply is switched-on. If this is not done, or if the drum is removed before switching-off the supply, the current will immediately rise to approximately 41amps when operating at 240 volts. The heater will not be detrimentally affected by brief higher current conditions. However all supply cables should be sized accordingly, and the system should be safeguarded by an appropriately rated over-current protection device.

If using the heater in conjunction with a standard LMK Control panel or BF400 power controller, the fitted 25amp.MCBs will operate at between 5% and 30% overload, ie.between 26.25 and 32.5amps, and would therefore switch-off the heater if no vessel was present. **NB.32amp MCBs operate at between 33.6 and 41.6amps, and could therefore fail to switch-off the heater if no vessel was present.** If containers less than 210 litres are to be heated, then the normal operating current should be measured. The MCB fitted may need to be changed, to provide an appropriate level of close current protection for the application.

The Thermosafe Type A is certified for use in the following situations:

- 210 Litre magnetic steel drums operated at voltages up to 240v – see certificate for temperature class
- Magnetic steel drums up to 210 Litres, one or more at a time at voltages up to 240v – certified temperature class 170°C(T3)
- Plastic or non magnetic containers at voltages up to 127v. certified temperature class 170°C(T3)



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