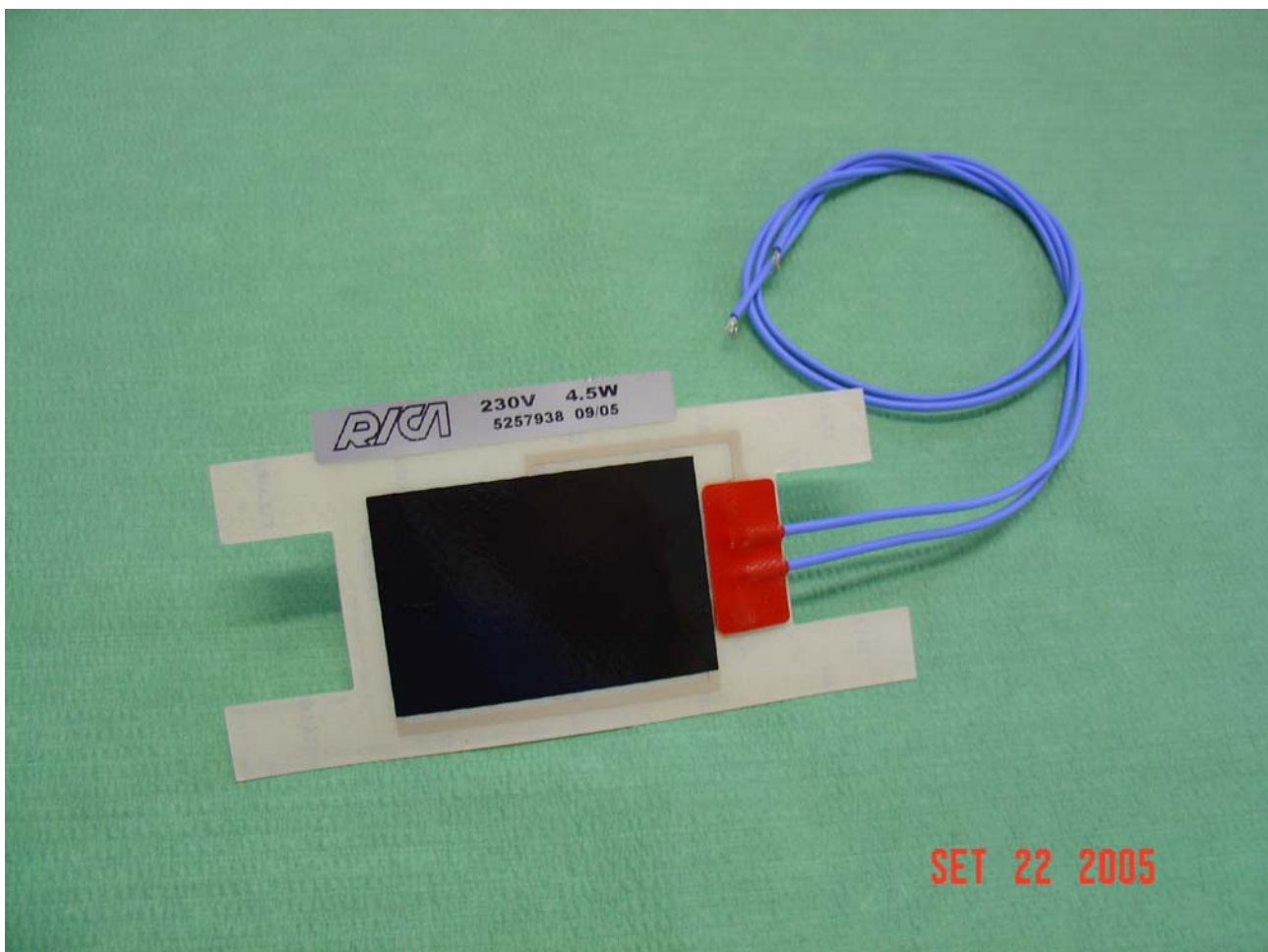


## **RICA flexible heaters of Zoppas Industries, produces its first order of heaters with thick film technology.**

In many applications that require anti-icing capabilities, a low cost option is required. Providing a flexible heater with a thermal control can provide an anti-icing heater with a control, but oftentimes, costing too much.

The customer, HERMANN, is an important European manufacturer of domestic boilers heated with gas burners (for home heating system); when these boilers are put outside they need an anti ice heater in the siphon of discharge of the condensate. RICA providing a low cost solution using a low temperature thick film heater with self limited overheat control built in, eliminating the need for a thermostat.



The main technical features of the product:

- Insulator: thermally stabilized polyester 100micron + polyester 125micron
- Dimensions: 65x50 mm
- Voltage: 230V
- Power: 4.5 W +/- 20% (with PTC effect starting at 70°C)
- Working temperature : about 70-80 °C

- Connections: silicon cables mechanically fixed on silver conductor pads.  
Connection area covered by a silicone patch.
- Application method: PSA (pressure sensitive thermal bond adhesive backer.)

Where this type of heater is particularly appropriate ?

- When there are small surfaces which needs to be heated with low power at normal voltage; it means that a very high ohmic value is requested (in a small surface) and the thick film is a cost effective way to get it.
- When the surface to be heated is not flat; a flexible heater provides installation options around a pipe or tight surface area.
- When thermal control is needed for safety, but costs need to be low: Low temp thick film with a PTC effect, keeps the heater in a self limited overheat protection mode.

This product, here described, has to be taken as a pure example of what it is possible to do with this technology.

Specific heaters have to be developed depending on the specific application and our technicians are at market disposal to guarantee this development. Davidon Industries is the exclusive North American representative for RICA. For inquires contact Davidon Industries at (401) 737-8380 or email us at [info@davidonindustires.com](mailto:info@davidonindustires.com)