



Dolphin

MICROPROCESSOR-CONTROLLED IBC HEATING SYSTEM

INTELLIGENT, FAST BATCH ELECTRIC HEATER THAT PROVIDES ACCURATE, INTERNAL HEATING OF INTERMEDIATE BULK CONTAINERS (IBCs) WITH SENSITIVE PRODUCT PROTECTION

The patented **Limpet** heating system consists of a range of electrical heaters for industrial process heating applications. The **Dolphin** is a unique approach to heating viscous foodstuffs and chemicals within IBCs (intermediate bulk containers). Instead of heating from the outside, it is inserted inside the container with the base of the heating unit next to the outlet valve. It is designed to protect sensitive products, such as syrups, honey, treacle, molasses, fats and other viscous products that are difficult to process. Most products can be batched within a relatively short time, increasing efficiency and reducing down time. The unit can have a set temperature up to 70°C and is available in 240Vac and delivers up to 2.4kW of power.

Applications

- Viscous products
- Fats
- Oils
- Sugars
- Honey
- Surfactants
- Chemicals

Advantages

- Rapid internal heating
- Accurate temperature control
- All energy is transferred to the product
- Will not burn the product (sensitive product protection)
- Sterilisation option

DOLFIN FEATURES

The main features of the patented **Dolfin** heating system are as follows:

Operation:

- Designed for insertion into 1,000 litre cubic IBCs but can fit inside most IBC configurations.
- Adjustable temperature range from 0°C to 70°C using a dial on the top of the heater.
- 230/ 240 Volts ac; up to 2.4kW power output.
- Finned, food safe heating element that is inserted into the IBC, thereby heating the contents directly.
- Fast batching ability. Unique thermodynamic core that gives even temperature distribution along the heating extrusion, preventing thermal damage to the liquid contents of the IBC.
- Non-stick industrial strength Xylon coating for easy washdown.
- Carefully designed low Watt density to protect sensitive products.
- Lightweight with stainless steel handles for easy insertion and extraction.
- Even temperature distribution along the length of the heating extrusion.
- Coloured LED for power cycle and status indication.
- 16 Amp blue industrial power plug.
- Protective sleeve between the base of the control unit and the neck of the IBC to prevent ingress of contaminants.

Robust Construction:

- IP67-rated body with potentiometer control mounted under protective see-through cover.
- The product is sealed to ensure that all the connections and components are waterproof.
- Robust IP67-rated aluminium case.
- Long life heating elements.

USER INSTRUCTIONS

- Stand on the opposite side of the IBC from the valve.
- Insert the Dolfin heater and stand it vertical on the IBC base.
- Secure the protective sleeve around the neck of the IBC port.
- Pull the top of the heater towards you until the base of the heater slides into position at the rear of the IBC valve port.
- Turn on the power.
- Set temperature on the dial.

TECHNICAL INFORMATION

- Dimensions:
 - Extrusion: 1,200mm long, 140mm wide, 110mm deep.
 - Control unit: 176mm long, x 220mm wide , 160mm deep.
 - Power lead: 3m.
- Weight: 10.5kg.
- Voltage: 230/240Vac.
- Power rating: up to 2.4kW.

