HEAVY INDUSTRIAL IMMERSION HEATER WITH IOT

Description

Heatrod manufacture a wide range of heavy industrial immersion heaters for commercial and industrial applications. With our customers facing increasing energy costs, we have introduced the option to include our digital temperature controller into many of our heavy industrial immersion products.

The example shown is used in de-ionised water for cleaning processes.

Fields of Application

- Commercial cylinder heating (Tanks/Vessels)
- Industrial Flow Heating (Pipes/Circuits)
- Industrial Heating Applications (Extrusion, Tool Heating, etc)

Benefits

- Improved Control/Improved Accuracy
- Reduced Energy Costs
- Increased Control Options (e.g. Aux control for pump)

At a basic level, this gives the accuracy of PID temperature control, so limiting overrun on temperatures and energy usage.

For more advanced users, our digital controllers can be connected to our secure cloud based management system, allowing users the ability to carefully monitor and manage the energy usage of our heaters. Monitoring features allow full visibility of live temperatures and energy usage in your applications, which, in turn, allows power optimising decisions to be made.

Usage patterns and associated energy usage can then be managed by the use of simple daily/weekly load schedules.

Heating schedules can also be linked to low-cost tariffs based on scheduling and to avoid high cost times such as Triad periods which are introduced for commercial users between the months of November and February.

In advanced cases, users will be able to link their Backer IoT controllers to variable tariff information provided by energy generation companies. The controller will then optimise it's heating patterns in order to reach required temperatures whilst using the lowest cost half-hourly periods.

The Backer IoT controller can be applied to all of our products either by being built into the unit, where space allows, or by incorporating into a linked control/switch panel.

Technical specification

Flange	6 ⅝" Tri-Clover Flange
Rating	24kW, 400V Single Stage
No. of Elements	12
Temperature Controller	Backer HRDC
Finish	Electro Polish
Terminal Enclosure	IP66 Stainless Steel 304 - 240 Grit
Safety	GTLHR 0-120°C
Contactors	Siemens
Internal single stage control circuit	