

## Why do we need temperature controllers?

Temperature control in the plastics industry is common on portable chillers, hoppers and dryers and **molding and extruding equipment**. In extruding equipment, temperature controllers are used to precisely monitor and control temperatures at different critical points in the production of plastic.

### Why use a temperature controller?

A temperature controller is effectively a cost saving device as the instrument precisely controls temperatures **without staff engagements**. It shows temperature readings by comparing the actual temperature to the set temperature, which then provides the output to a control element.

### What is a RB controller?

[RB Series Controllers](#): The RB Series combines easy-to-use operation with the latest temperature control advances. With powerful new features such as RKC's new self-tuning for precise automatic control, digital communications for networking, IP66(IP65) for waterproof/dust proof protection and heater and loop break alarm capabilities to detect system failures, these controllers deliver exceptional process performance for the most demanding industrial applications.

They are general purpose, single loop process controllers – 1 sensor input and 1 output. The range varies in DIN sizes/physical sizes, depending on your panel space – but they all provide the same functions. RB series also has a smaller depth than the popular CB series which is an advantage if space is an issue.

### What is a Multi-loop Controller?

[Multi-loop Controllers](#): For applications which need extra inputs and outputs, we provide the MA900 and MA901 controllers. The MA900 can handle 4 channel input and output, whereas the MA901 handles 8 channel input and output.

# What is a Ramp/Soak Controller?

**Ramp/Soak Controllers:** These programming controllers provide a 'ramp/soak' function. A RAMP action occurs when the controller increases the temperature from ambient temperature to a set point. It remains at the set point for a desired amount of time (referred to as SOAK) – and then will ramp up to a new pre-selected temperature. This RAMP/SOAK process repeats according to how it has been programmed.

RKC temperature controllers are suitable for a vast range of applications eg:

- Plastic extrusions
- Scientific applications
- Food and Beverage
- Heat treating
- Ovens – including coffee roasting.
- Furnaces
- Incubators
- Temperature Alarming Systems (providing alerts to certain parameters)

## Information to consider when choosing your controller.

- Application that requires a controlled process and spacing available for controller size.
- Input sensor type such as RTD or thermocouple
- Length of stem of the sensor if required.
- Output type: relay, SSR or analogue for example 4-20mA
- Type of function you require: PID or on/off.
- Any other relevant information: Alarms, ramp/soak, auto tune etc.

[Shop Temperature Controllers](#)

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