

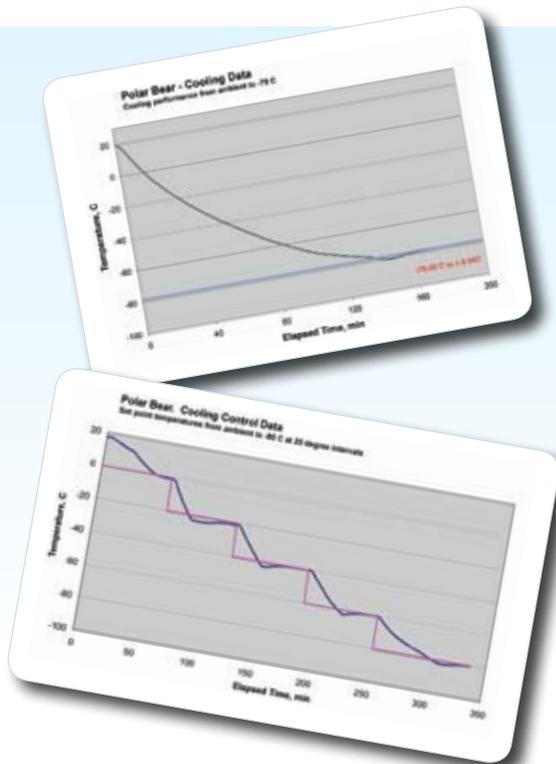


# Polar Bear Advanced Cooling Technology

Arctic temperatures at  
the touch of a button

Any temperature from ambient to  $-90^{\circ}\text{C}$  can now be achieved in a clean, simple system at the touch of a button!

Our Polar Bear Advanced Cooling Technology uses no heat transfer fluids, solvents or ice – just plug it in and set the desired temperature. The simplicity of the system ensures high flexibility to suit many applications.



## Introduction

Many laboratory applications require sub-ambient temperatures, whether in the field of biology, chemistry, medicine, food or even electronics.

The Polar Bear has been created to accurately deliver a range of cold temperatures, in a clean and simple way, by employing novel technology.

At the touch of a button you can achieve a controlled cold environment for observation, manipulation and testing samples.



**The Polar Bear is a flexible platform that can be adapted to many applications.**



### The Polar Bear Workbench

A chilled plate format, the Polar Bear Workbench can be used to hold a variety of samples, such as micro-titre plates or circuit boards.

Equally, aluminium formers can be manufactured to specific requirements. The clear enclosure maintains the controlled environment whilst being easily accessible.

### The Polar Bear Tubular Reactor

One application of the Polar Bear is in the field of Continuous Chemistry. The platform has been designed, in conjunction with researchers at Cambridge University, to accommodate a tubular reactor, together with two dosing streams, all cooled to the chosen temperature.

The materials of construction and the ability to operate at pressures up to 10bar make this system compatible with a wide range of chemistries.



## Polar Bear Advanced Cooling Technology

Offers laboratories a new way of achieving a controlled cold environment.

### Features of the Polar Bear include:

- Temperature range from ambient to  $-90^{\circ}\text{C}$
- Accurate and precise temperature control
- Simple operation
  - Attach to an electricity supply and set the temperature
- No solvents, heat transfer fluids or ice

- Adaptable to many applications
- Novel mechanism

**Whether your application requires a chilled reactor, a cold plate, or a refrigerated vessel, the Polar Bear will provide you with clean, simple and efficient cooling at the touch of a button.**



If you would like to speak to a technical representative please call us on +44 (01954) 252522, e-mail [sales@crduk.com](mailto:sales@crduk.com), or alternatively you can visit [www.cambridgereactordesign.com](http://www.cambridgereactordesign.com) for further information.



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