



FlowSyn Polar Bear™ *Advanced Cooling for Flow Chemistry*

UNISIS
Accessible flow chemistry

 **interchim®**

FlowSyn Polar Bear™

Clean, efficient cooling at the touch of a button

No heat transfer fluids, solid CO₂, or solvents

Just plug in, switch on and set the temperature



FlowSyn Polar Bear™ is a state of the art chiller unit for low temperature flow-through chemistry applications.

Powerful: The reactor can be rapidly cooled down to any temperature between ambient and -90°C .

Rapid Cool-down: Advanced cooling technology delivers much more rapid cooling can be achieved than would be possible using a conventional chiller.

Flexible: The coil reactor module uses standard Uniqsis reactors and can accommodate single coil reactors up to 60 ml in volume, multiple smaller coils (available in a variety of sizes), and glass static mixer chips to deliver maximum flexibility for the flow chemist.

Reagent Pre-cooling: Reagent solutions can be efficiently pre-cooled prior to mixing by using either a static mixer chip or the dedicated heat exchange coils supplied with the interchangeable coil reactor top block.

No 'Icing-up'! A vacuum-jacketed glass cover fitted with a nitrogen purge prevents ice formation and ensures that the reactor remains clearly visible at all times.

Control via FlowSyn Interface: FlowSyn Polar Bear™ can be controlled directly using the FlowSyn user interface. In conjunction with FlowSyn Multi-X™ series of experiments each at a different sub ambient temperatures can be performed in sequence.



UQ-0000 FlowSyn Polar Bear™ Specification

Temperature range:	ambient to -90°C
Stability: \pm	$\pm 0.1^{\circ}\text{C}$ @ -70°C over 2 h
Power supply:	110V or 240V 5000VA
Dimensions:	650 mm (w) x 650 mm (d) x 550 mm (h)
Weight:	65 kg unpacked