



Polar Bear *Plus* GSM™

Constant temperature reactor module for glass chip reactors & mixers

Polar Bear *Plus* GSM™

Compact, self-contained heating & cooling module for glass static mixers



- Temperature range: -30°C to 150°C
- Compatible with all sizes of Uniqsis GSMs
- Standalone or remote controlled operation (RS232, LAN)
- Requires no heat transfer fluids, card-ice or liquid nitrogen
- Insulated PTFE cover with glass view window

The Uniqsis **Polar Bear Plus GSM™** is a versatile active heating and cooling reactor module for glass static mixer and reactor blocks ('chips'). Compatible with all Uniqsis glass static mixer/reactor blocks from 250µl to 20ml total channel volume the unit delivers precise temperature control from -30°C up to 150°C.

A conductive insert allows up to 2 of the smaller glass mixers to be fitted. Alternatively, a single large format GMS may be accommodated. (Customised holders are also available on request).

Tubing connections are conveniently made using standard finger-tight threaded fittings with a chemically resistant 'O'-ring seal and the unit is fitted with a nitrogen inlet to help minimise icing-up of the large view window. A cut-out allows the cover to be conveniently removed and refitted without the need to disconnect the fluidic connections.

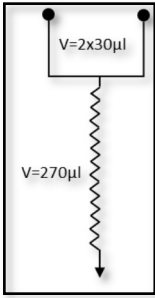

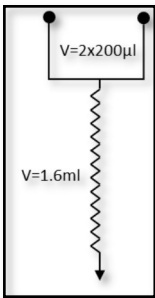

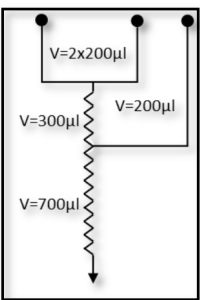

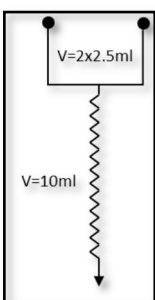

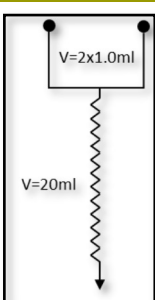

In addition to the manual control interface, the **Polar Bear Plus GSM™** can be controlled remotely using the **FlowSyn™** or **Binary Pump Module™**. However, for maximum flexibility and, in particular for those flow chemists who wish to build their own bespoke or a more complex component based flow chemistry system, the **Polar Bear Plus GSM** is fully compatible with Uniqsis **FlowControl II™** system control software.



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Uniqsis Glass Static Mixer/Reactor Blocks

Borosilicate glass static mixer blocks for flow chemistry

<p>UQ5101</p> <p>2 inlet channels {A+B}</p> <p>2x 30µL pre-mix tempering channels</p> <p>270µL mixing domain</p> <p>P_{max}=40bar; size: 56 x 110 x 7.0mm</p>		
<p>UQ5102</p> <p>2 inlet channels {A+B}</p> <p>2x 200µL pre-mixing channels</p> <p>1600µL mixing domain</p> <p>P_{max}=40bar; size: 56 x 110 x 7.0mm</p>		
<p>UQ5106</p> <p>3 inlet channels {[A+B]+C}</p> <p>3x 200µL pre-mix tempering channels</p> <p>1000µL mixing domain [300µL/700µL]</p> <p>P_{max}=40bar; size: 56 x 110 x 7.0mm</p>		
<p>UQ5107</p> <p>2 inlet channels {A+B}</p> <p>2x 2500µL pre-mix tempering channels</p> <p>10ml mixing domain</p> <p>Size: 140 x 130 x 7.5mm</p>		
<p>UQ5108</p> <p>2 inlet channels {A+B}</p> <p>2x 1000µL pre-mix tempering channels</p> <p>20ml mixing domain</p> <p>Size: 140 x 130 x 7.5mm</p>		

UQ1026 Polar Bear Plus GSM Heating Module — Specification

Dimensions	232 mm (w) x 243 mm (d) x 150 mm (h)
Power supply/Weight	230V 425VA or 110V 425VA; 5kg