

Larger scale batch photoreactor

The Solstice Maxi™

from Uniqsis is a new high-power LED photoreactor with a jacketed, multi-position tube holder accommodating twelve 20ml cm^3 septum-sealed reactor tubes



Image Caption : Solstice Maxi™ larger scale batch photoreactor

Designed for scientists

looking to scale-up batch photochemistry reactions – the Solstice Maxi™ fits neatly onto a standard laboratory magnetic stirrer enabling the contents of each tube to be efficiently stirred. Photochemical reactions can be maintained at a fixed temperature by connecting the Solstice Maxi™ to a recirculating liquid coolant. Although a piped water supply can be utilised, more precise temperature control (10 – 60 °C) can be achieved by connection to a recirculating heat exchanger.

Inserting a Borealis

high power LED lamp unit (365nm, 385nm, 425nm, 440nm, 460nm or 525nm) into the centre of the Solstice Maxi™, converts the system into a versatile temperature controlled, multi-position photoreactor.

An embedded temperature sensor

measures the back-plate LED temperature, which, when connected to the matching ‘smart’ power supply, ensures that the LED wavelength and electrical parameters are automatically detected and configured correctly. To provide precise control over photochemical reactions the power supply allows LED intensity to be varied in 5% steps from 10-100%.



The Solstice Maxi™

is driven by a digital power supply unit that can be controlled remotely and displays both the internal reactor and LED backplate temperatures. Though designed as a batch photoreactor, the lamps used in the Solstice Maxi™ can be combined with a Uniqsis Cold Coil and internal coil reactor to enable continuous flow processing on this versatile device.

For learn more

about the Solstice Maxi™ please watch <https://youtu.be/CZ1Os5vrEVA> or contact Uniqsis on +44-1223-942004 / info@uniqsis.com.

Since 2007, Uniqsis has specialised in the design and supply of mesoscale continuous flow chemistry systems for a wide range of applications in chemical and pharmaceutical research. The company's aim is to make flow chemistry easily accessible to both novices and experienced users.

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