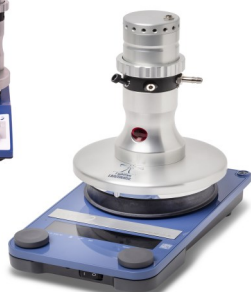


Batch Photoreactors Comparison



Lighthouse

Illumin8

Solstice & Solstice MAXI

	Lighthouse	Illumin8	Solstice	Solstice MAXI
Number of Vials	1 / 3	8	12	12
Cell Capacity (mL)	18	8	8	20
Electronics Cooling	Fan	Fan	Circulator	Circulator
Sample Temperature Control	Hotplate / Circulator	Hotplate / Circulator	Water Supply / Circulator	Water Supply / Circulator
Temperature Range	-30 to 80 °C	-30 to 80 °C	-30 to 80 °C	-30 to 80 °C
LED Power	10 W	10 W	120 W / 180 W	120 W / 180 W
Wavelengths (nm)	365, 390-395, 410, 460, 523, 490, 623, 740, 850, 940, Cool White	365, 390, 405, 450, 470, 525, 595, 625, 660	365, 385, 405, 420, 455, 525	365, 385, 405, 420, 455, 525
Variable Intensity	No	No	Yes	Yes
Interchangeable Wavelengths	Per Vial - single wavelength module	Yes - one wavelength module for all positions	Yes - one wavelength module for all positions	Yes - one wavelength module for all positions
Sampling / Additions During Operation	Yes	Yes	No	No
Inerting	Per Vial	Per System	Per Vial	Per Vial

Contact us for further information.

Flow Photoreactors Comparison



fReactor PhotoFLOW

Borealis Flow

PhotoChip

PhotoSyn

	fReactor & fReactor MAXI	Borealis Flow	Photochip	PhotoSyn
Platform Type	Continuous Stirred Tank Reactor	Coil Reactor	Glass Static Mixer Reactor	Coil Reactor
System Capacity (mL)	8.8 / 37.5	4.3 / 15	2 x 0.27 / 2 x 2 / 10 / 20	2.5 / 5 / 10 / 20 / 53
Lamp Cooling	Fan	Water Supply / Circulator	Water Supply / Circulator	Water Supply / Circulator
Sample Temperature Control	Hotplate / Circulator	Circulator / Polar Bear Plus	Circulator / Polar Bear Plus	Circulator / Polar Bear Plus
Temperature Range	-30 to 55 °C	-80 to 150 °C	-80 to 180 °C	-80°C and 150°C
Maximum Pressure (bar)	6.89	20	10, 20, 30, 35	20
LED Power	10 W	120 W / 180 W	150 W / 180 W	700 W
Standard Wavelengths (nm)	365, 390-395, 410, 460, 523, 590, 623	365, 425, 440, 465, 525	365, 385, 405, 420, 455, 525	365, 455, 530
Variable Intensity	No	Yes	Yes	Yes
Interchangeable Wavelengths	Yes - each individual lamp module	Yes - via changing the Borealis lamp	Yes - via changing the Photo-Chip lamp	Via keypad selection
Gas Purging	No	No	Yes	Yes
Mechanical Safety Interlock	Yes	Yes	Yes	Yes

Contact us for further information.

Asynt document control: TL062

