

Cole-Parmer®

Cole-Parmer® Integrity 10 Reaction Station

- 10 individual cells in one unit
- Individual control of temperature and stirring rate for each cell
- Temperature range of -30°C to 150°C
- Stirring rate of 350 rpm to 1200 rpm
- Cell working volume of 1ml to 25mL
- Optional attachments for refluxing, and working under vacuum
- Automatic microprocessor control through a touchscreen



Cole-Parmer® Integrity 10 Reaction Station

Cole-Parmer® Integrity 10 Reaction Station's evolutionary design provides the advanced laboratory with a means for allowing the users to perform multiple reactions at individually set temperatures both in negative and positive temperature ranges simultaneously. Each cell position can be heated/ cooled and stirred independently of the cell next to or adjacent to it. The versatility of the product means it can be used inside a fume cupboard, mounted onto a robotic platform, coupled together as multiple units for mass sampling or simply operated free standing on a laboratory work surface.

Extreme temperature accuracy is guaranteed, with a temperature stability of $\pm 0.5^{\circ}\text{C}$ and a minimal set point overshoot of 0.5°C . The temperature may be maintained either through the block itself or by using a probe within each cell's solution. This accuracy can be maintained over a wide temperature range of -30°C to 150°C , with precise, independently controlled temperature profiles. Homogeneous sample mixing may be assured with stirring rates of between 350rpm to 1200rpm using magnetic stirrers. If desired, fast heating and cooling rates can be selected, with temperature ramps of between $0.1^{\circ}\text{C}/\text{min}$ to $5^{\circ}\text{C}/\text{min}$. There is also a crash function for even faster temperature changes, which is ideal for kinetic determinations. With working volumes of between 1mL to 25mL, the Integrity 10 is an excellent screening tool for most laboratories and can also be used to establish ideal process conditions.



Technical Specification

Specification	Integrity 10
Number of cell positions	10
Cell cavity diameter	25.5mm
Glass vessel fill level	1 to 25mL
Temperature range	-30°C to 150°C
Temperature difference between 2 positions	180°C
Temperature overshoot (maximum)	0.1°C
Maximum heating/cooling rate	5°C/min
Temperature ramp rate	0.1°C/min to 5°C/min in 0.1°C/min steps
Stir speed range	350 to 1200 rpm
Maximum viscosity capacity	Glycerine at 25°C
Recommended stir bars	12/4.5mm (cylindrical) or 10/6mm (oval)
Temperature range	-30°C to 150°C
Temperature resolution	0.01°C
Temperature accuracy	±0.5°C
Stirrer speed range	350 to 1200 rpm
Stirrer resolution	1 rpm
Stirrer accuracy	±10 rpm

Ordering Information

Description	Ordering Number	Legacy Sku.
Integrity 10 with 10 individually controlled cells, UK, US & EU power leads	36630-00	PS20000
Integrity 10 refluxinerting unit	36630-97	ATS20100
SVL 22 thread inerting caps, compatible with ATS10075, for use with ATS20100	36630-94	ATS20002
Glass tubes 24 150mm, SVL 22 thread pack of 10	36630-85	ATS10075
Kimble thread inerting caps for use with ATS20100	36630-95	ATS20003
Kimble thread 24 150mm glass tubes compatible with ATS20003, for use with ATS20100	36630-96	ATS20004
Small volume test tubes 24 - 16mm taper (3mL) x10	36630-83	ATS10055
Reducing sleeves for ATS10055 x10	36630-84	ATS10056
Small volume test tubes 24 - 11mm taper (1mL) x10	36630-87	ATS10209
Reducing sleeves for ATS10209	36630-86	ATS10101
Stirrer bars 10 6mm, pack of 10	36630-98	AZS4206
Stirrer bars 12 4.5mm, pack of 10	36630-99	AZS4235
Multi-Temp 10 plug-in box	36630-80	ATS10001
Temperature probe, pack of 6	36630-81	ATS10027
Temperature probe, pack of 10	36630-82	ATS10027 10
Integrity software	36630-92	ATS11005
Non Intrusive IR sensor, pack of 1	36630-90	ATS10360 1
Small Intrusive IR probe in stainless steel PID-NIR5-BNSD, pack of 1	36630-88	ATS10230
Large Intrusive IR and NIR probe pack of 1	36630-91	ATS10394 1
Multi-IR plug-in box	36630-89	ATS10232E

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