

## Integrity 10 Reaction Station

Integrity 10 – Reaction Station, 10 x 25 mL

### Reduce the time it takes to screen a large number of conditions

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

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 close to it. The versatility of the product means it can be used inside a fume hood, 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  $\pm 0.5$  °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  $-30$  to  $150$  °C, with precise, independently controlled temperature profiles. Homogeneous sample mixing can be assured with stirring rates from 350 to 1200 rpm using magnetic stirrers. If desired, fast heating and cooling rates can be selected, with temperature ramps between 0.1 °C/min to 5 °C/min. There is also a crash function for even faster temperature changes, which is ideal for kinetic determinations. With working volumes between 1 mL to 25 mL, the Integrity 10 is an excellent screening tool for most laboratories and can also be used to establish ideal process conditions.

# Integrity 10 Reaction Station

Easily set up test parameters using the user-friendly touchscreen menu. Intuitive icons reduce potential for costly errors while preprogrammed profiles for routine measurements save you time. Store results with information such as reaction composition, experiment owner, concentration, and the name of the profile with data stamp. View the progress of the reaction within each cell on the large monitor. It can also display results graphically at-a-glance. Extensive storage capacity lets you capture and review data. Download data to a PC via a USB port or SD card. Order software 36630-92 for more in-depth analysis and evaluation.

Optional reflux/inerting head 36630-97 is ideal when you need to run parallel reactions for a long time, as is commonly required in organic chemistry experiments. Use with inerting caps to provide inert atmosphere to all ten cells. The integrated design eliminates the need to connect individual gas lines to each cell for a safer and effective solution.

## Typical Applications Include

Parallel synthesis, reaction optimization, polymorph screening, stability studies, kinetic studies, catalyst screening, metastable zone widths, solubility studies, high-throughput screening, and hit screening.

## Specifications

Specification	Integrity 10
Number of cell positions	10
Cell cavity diameter	25.5 mm
Glass vessel fill level	1 to 25 mL
Temperature range	-30 to 150 °C*
Temperature resolution	0.01 °C
Temperature accuracy	±0.5 °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 to 5 °C/min in 0.1 °C/min steps
Stirrer speed range	350 to 1200 rpm
Stirrer resolution	1 rpm
Stirrer accuracy	±10 rpm
Maximum viscosity capacity	Glycerine at 25 °C
Control ports	USB, RS-232, RS-485, GSIOC
Dimensions (W x H x D)	15.3 x 16.0 x 43.0 cm (6 x 6.3 x 16.9 in)
Power	110/230 VAC, 50/60 Hz, 1500 W
Warranty	3 years

\*Chilled water supply is required to run the Integrity 10 reaction station; we recommend using a recirculating chiller.

# Integrity 10 Reaction Station

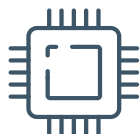
Integrity 10



## Features



Individual controls  
for each cell



Automatic  
microprocessor control



User-friendly  
touchscreen interface



Extreme temperature  
accuracy guaranteed

## Software Operation and Control

The Integrity 10 is designed to be “out of the box” to operational within 10 minutes. The 14.5 cm touchscreen greatly simplifies operation and enables rapid “at-a-glance” assessment of each critical parameter in the reaction.

## Ordering Information – Equipment

Description	Legacy SKU	Item Number
Integrity 10 reaction station with power supply unit, cords (UK, US, EU), coolant supply hose, and SD card	PS20001	36630-00

# Integrity 10 Reaction Station

## Ordering Information – Accessories

Description	Legacy SKU	Item Number
Integrity 10 software	ATS11005	36630-92
Reflux/inerting head	ATS20100	36630-97
Inerting cap for reflux/inerting head, SVL 22 thread. 10/pk	ATS20002	36630-94
Glass tubes, 24 x 150 mm, SVL 22 thread. 10/pk	ATS10075	36630-85
Inerting cap for reflux/inerting head, Kimble type. 10/pk	ATS20003	36630-95
Glass tubes, 24 x 150 mm, Kimble type. 10/pk	ATS20004	36630-96
Multi-temp 10 plug-in box	ATS10001	36630-80
Temperature probe. 6/pk	ATS10027	36630-81
Temperature probe. 10/pk	ATS10027/10	36630-82
Multi-IR plug-in box	ATS10232E	36630-89
Non-intrusive IR sensor	ATS10360/1	36630-90
Small intrusive IR probe in stainless steel PID-NIR5-BNSD	ATS10230	36630-88
Large intrusive IR/NIR probe	ATS10394/1	36630-91
Stirrer bars, 10 x 6 mm oval, for round-bottom tubes. 10/pk	AZS4206	36630-98
Stirrer bars, 12 x 4.5 mm, for flat-bottom tubes. 10/pk	AZS4235	36630-99
Small-volume test tubes, 1 mL, 24 to 11 mm taper. 10/pk	ATS10209	36630-87
Reducing sleeves for 1 mL test tubes. 10/pk	ATS10101	36630-86
Small-volume test tubes, 3 mL, 24 to 16 mm taper. 10/pk	ATS10055	36630-83
Reducing sleeves for 3 mL test tubes. 10/pk	ATS10056	36630-84

## Keep your reaction station running smoothly

Choose from a wide range of accessories suitable for your reaction station including reaction vessels, probes, and software.

Visit [cole-parmer-integrity-10-rs-200-and-rs-250-reaction-station-accessories/66691](https://www.cole-parmer.com/usa/cole-parmer-integrity-10-rs-200-and-rs-250-reaction-station-accessories/66691) to view our range of Integrity 10 accessories.

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\*Enquiries from Germany and France are now handled in our St Neots office by native speaking experts.