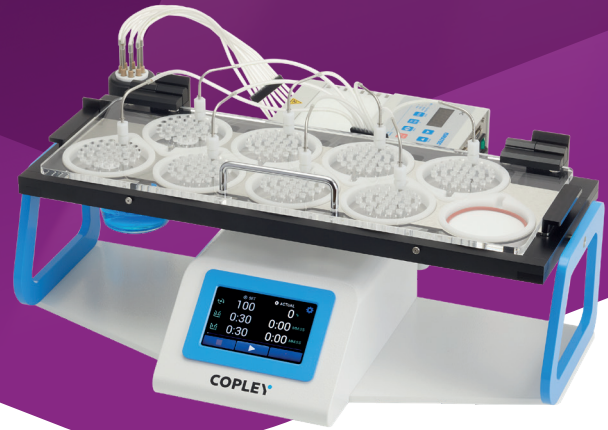


Impactor Coater™ IC 200i

Impaction surface coater for both NGI Collection Cups and ACI Collection Plates



↑
IC 200i with NGI Collection Cup Tray



↑
IC 200i with ACI Collection Plate Tray & Cups
ACI Collection Plate Tray & Cups purchased separately.
(Cat. No. 5933)

To prevent particle bounce and subsequent re-entrainment within the flowing airstream during aerodynamic particle size distribution (APSD) sampling, the pharmacopoeias recommend the coating of each impactor stage collection surface. However, the manual coating of each collection surface is prone to variability and is labour-intensive.

The **Impactor Coater IC 200i** reproducibly applies surface coatings to both the NGI Collection Cups and the ACI Collection Plates, eliminating the problem of particle bounce and re-entrainment when using cascade impactors to measure the APSD of OINDPs.

Standardising the application of surface coating to each collection surface, the IC 200i removes the inherent variability associated with the coating process, while boosting laboratory productivity and throughput.



Coats surfaces in as little as 2 minutes



Frees up analysts for other tasks



Enables easy method transfer between sites



Minimises coating solution wastage

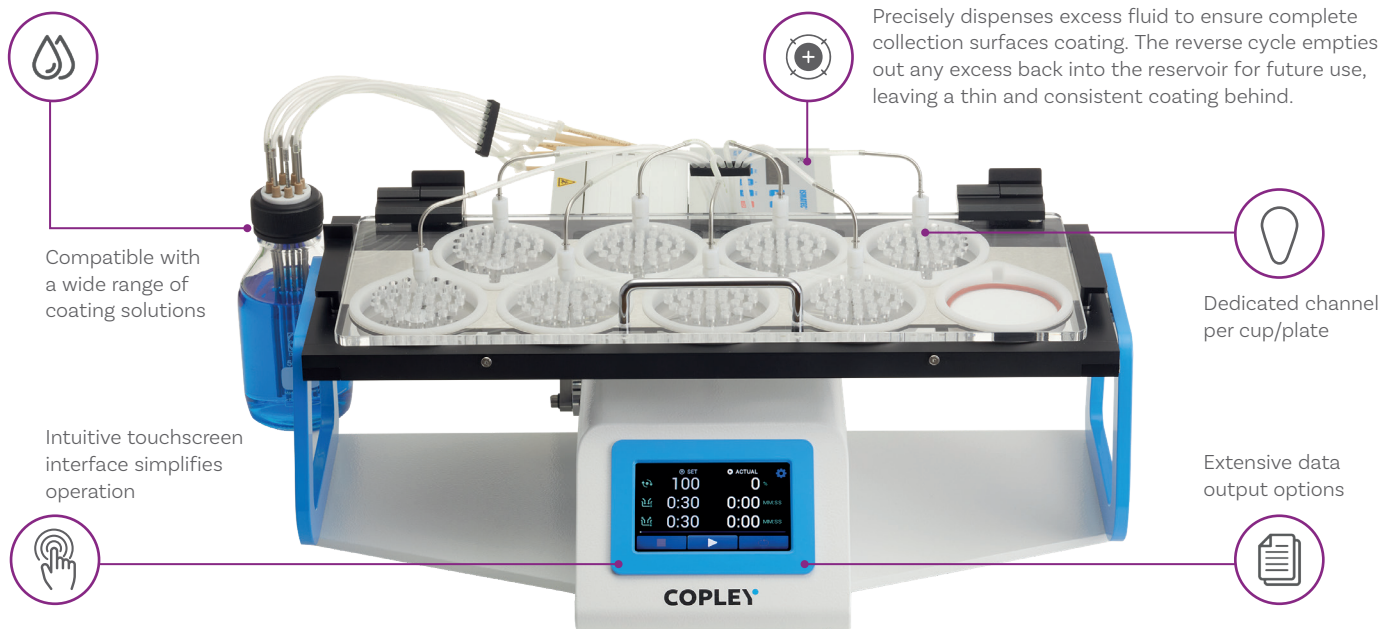


A note about impaction surface coating

For OINDPs where the particles are hard and dry, (e.g. Dry Powder Inhalers (DPIs)) or where only a few actuations are delivered to the impactor, such as is the case for Metered Dose Inhaler (MDIs), particle bounce and re-entrainment in the flowing airstream can bias the measured size data to finer sizes.

It is therefore important to assess the potential impact of these phenomena on downstream stages at an early point in development so that corrective action can be taken.

Coating the impaction surfaces with a tacky, viscous material such as glycerol or silicone oil is recommended by the regulators to address this problem. If a surface coating is required, the amount, its uniformity and the method in which it is applied and its potential to affect drug recovery should be assessed during method development.



IC 200i: User Interface



Setting flow rate



Setting dispense time



Coating in progress

IC 200i Technical Specifications

Dispense Rate	0 - 100%
Dispense and Reverse Cycle Time	0 - 10 minutes
Connectivity:	USB A and USB B
Dimensions (w x d x h)	590 x 320 x 250 mm [IC 200i] 150 x 220 x 130 mm [Pump]

Qualification & Maintenance

- Comprehensive IQ/OQ/PQ documentation package and toolkit available
- Extended warranty available

Impactor Coater™ IC 200i

Cat. No.	Description
5940	Impactor Coater Model IC 200i
5942	Cover and Tubing Set for NGI Cup Tray & Cups
5941	Cover and Tubing Set for ACI Collection Plate Tray & Cups
5933	ACI Collection Plate Tray & Cups

Spares

5947	Spare Set of 8 Pump Tubing Cassettes
5901	500 mL Solvent Reservoir complete with 8-way Cap
5902	1000 mL Solvent Reservoir complete with 8-way Cap

Accessories

Cat. No.	Description
5943	IQ/OQ Documentation for Impactor Coater ICi Series
5926	Qualification Tools for GR, IC, IGI Series
5927	Re-calibration of Qualification Tools for GR, IC, IGI Series
1072	IC 200i Extended Warranty - 1 year
1073	IC 200i Extended Warranty - 2 years
8120	Inhaler Testing Workstation - BasePlate and Upright
8140	ITW Cover Stand Attachment
5224	Storage Cabinet for Impactor Collection Trays
8766	Printer



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