



NEWS RELEASE

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Copley Scientific launches new flow controller for dry powder inhaler testing

The new Critical Flow Controller TPK 2000 from Copley Scientific is designed to control and document all the critical parameters associated with dose uniformity and cascade impactor testing for dry powder inhalers (DPIs). Based on the company's original TPK critical flow controller, now widely recognised as an industry standard, it offers significantly enhanced functionality including an RS232 interface, menu driven operation and environmental condition measurement.

The US and European Pharmacopoeias (USP and Ph. Eur) specify that flow rate, total air volume and flow stability must be carefully controlled during DPI testing. Flow rate must be manipulated to generate a 4 kPa pressure drop across the DPI, up to a maximum flow of 100 L/min, with the duration of flow controlled to give a total air volume of 2 or 4 L. Critical flow across the flow control valve is also required to minimise flow rate instability.

The TPK 2000 makes test set-up easy in line with these specifications. A user-friendly interface provides guidance through the testing procedures specified by the pharmacopoeias. Following an initial set-up procedure, which identifies the air flow rate required for testing based on the flow resistance of the device, the TPK 2000 automatically measures and/or calculates all required variables including, test flow rate and ambient conditions - air pressure, temperature and relative humidity – as well as monitoring critical flow. These parameters along with system calibration data can be printed or exported via RS232 (or USB). An optional interface with Copley's flow meter model DFM 2000 permits volumetric air flow rate measurement during the set-up routine, simplifying and accelerating this part of the procedure.

Utilizing two external pressure taps the TPK 2000 can also be used to determine leak rates and total pressure drops for both Next Generation and Andersen Cascade Impactors; valuable data for monitoring day-to-day impactor performance and suitability. The TPK 2000 is designed for user calibration within the lab environment.

Ends

Image, notes and contact details follow...

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High resolution image attached and/or available from Trish Appleton, Kapler Communications trish@kapleronline.com Ref: COP/JOB/005



CAPTION: The new Critical Flow Controller TPK 2000

About Copley Scientific

Copley Scientific is a major provider of test equipment for pharmaceutical solid dosage forms, including tablet dissolution, disintegration, friability, hardness and powder testers, and is recognised as the world's leading manufacturer of inhaler test equipment. The company has offices in the UK and Switzerland and a partnership with aerosol particle science experts MSP Corporation in the US. Copley's broad range of testing products for metered-dose inhalers, dry powder inhalers, nebulizers and nasal sprays are supplied and supported worldwide through close relationships with specialist distributors. Serving the pharmaceutical and associated industries, Copley offers an extensive range of equipment for research, production, clinical trials and quality control, as well as full validation and aftersales service, providing a single source for products that meet individual needs. www.copleyscientific.com

For further information

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