



NEWS RELEASE

Faster, more reproducible dry powder inhaler testing – Copley Scientific introduces TPK™ 2100 Critical Flow Controller

4th October 2017: Nottingham, UK: Following a successful preview at the 2017 Respiratory Drug Delivery (RDD) Europe conference, Copley Scientific, the world's leading manufacturer of inhaler test equipment, has launched its new 3rd generation Critical Flow Controller – the TPK™ 2100 – for the testing of dry powder inhalers (DPIs).

Built on Copley's heritage of TPK™ models, an international standard in the field of DPI testing equipment, the new TPK™ 2100 is ideally suited to the needs of formulators and quality control scientists, setting a new benchmark for the set-up, control and documentation of all the parameters associated with the measurement of delivered dose and aerodynamic particle size distribution (APSD) by cascade impaction, in accordance with the United States and European Pharmacopoeias.

Designed to replace the well-established TPK™ 2000, significant new features are built into the TPK™ 2100. A new 'fly-by-wire' flow control valve allows operation to be automated so that data generation is both more efficient and reproducible. Inhaler pressure drop, P_1 , and test flow rate are accurately and rapidly set by the TPK™ 2100 during test set-up, whilst in-line flow measurement can be accommodated and in-situ impactor leak testing is fully automated for the first time. The user is warned if the important P_3/P_2 ratio is greater than 0.5, giving full confidence that tests are conducted under sonic flow conditions, whilst notification is also given if the set flow rate and impactor leak rate are outside acceptance limits. Data output to printer and computer are standard, with enhanced monitoring and reporting of critical in-test parameters, whilst remote control via USB allows the TPK™ 2100 to be integrated into larger automated systems, where required. Finally, the new instrument allows users to emulate the previous generations of TPK™, promoting interchangeability and integration into existing standard operating procedures (SOPs).

Mark Copley, Sales Director at Copley Scientific, comments:

“Delivered dose and aerodynamic particle size distribution are critical quality attributes for DPIs, as they indicate the amount of drug that will be received by a patient and broadly where drug particles are likely to deposit within the respiratory system. It is well recognised that these parameters impact clinical efficacy and both US and European Pharmacopoeia publications specify discriminatory testing methods accordingly. I am particularly pleased that the initial feedback we received at RDD Europe for this new instrument was extremely positive, and to have confirmed that the advancements we have incorporated into the TPK™ 2100 will make a substantial difference to productivity and efficiency in the execution of these important tests by our customers.”

In addition to the launch of the new TPK™ 2100, a new TPK™ 2100-R is being released in parallel. This is a reversed version where the flow inlet and outlets are swapped over to allow for different arrangements of testing equipment to be set up on the laboratory bench.

To find out more about the TPK™ 2100, contact: sales@copleyscientific.co.uk

To see Copley’s full programme of equipment for inhaled drug testing, download ‘Quality Solutions for Inhaled Testing’ from: <http://www.copleyscientific.com/downloads/brochures>

ENDS

High resolution image attached and/or available from Kapler Communications
copley@kapleronline.com Ref: COP/JOB/396



CAPTION: The new TPK™ 2100-R and TPK™ 2100 (left) and TPK™ 2100 with accessories and DFM 2000 (right) from Copley Scientific

About Copley Scientific

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Copley Scientific is recognised as the world's leading manufacturer and supplier of inhaler test equipment and is a major provider of testing systems for other pharmaceutical dosage forms. The company is also active in detergent testing.

Copley Scientific's pharmaceutical product range includes test equipment for: delivered dose uniformity and aerodynamic particle size measurement of metered-dose inhalers, dry powder inhalers, nebulizers and nasal sprays; as well as tablets (dissolution, disintegration, friability and hardness) capsules, powders, suppositories, semisolids and transdermals.

Copley Scientific has offices in the UK and Switzerland and works in partnership with aerosol particle science experts MSP Corporation in North America.

Serving the pharmaceutical and detergent industries, Copley Scientific offers an extensive range of equipment for research, development and quality control, as well as full validation and aftersales services. This broad range of products is supplied and supported worldwide through a network of specialist distributors. www.copleyscientific.com



For further information

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