

# Xelair<sup>®</sup> Series Overview



## 1 Series

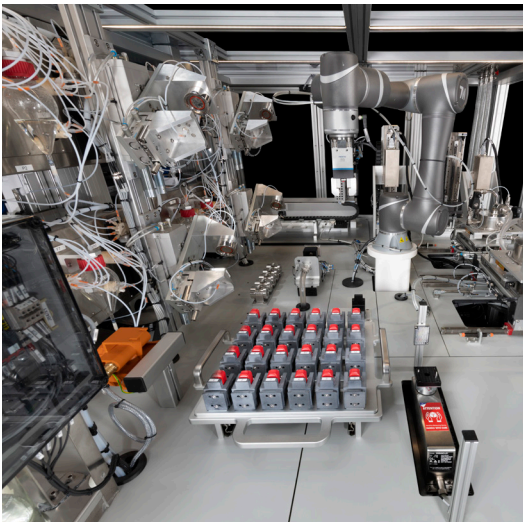
The Xelair<sup>®</sup> 1 Series are analyst workstations. They automate individual stages of Delivered Dose Uniformity testing.

## 3 Series

The Xelair<sup>®</sup> 3 Series are semi-automated platforms. They automate the entire through life testing of an inhaler device.

## 5 Series

The Xelair<sup>®</sup> 5 Series are fully automated systems. They offer 24/7 unattended operation.



## DCU Evaluation kit

Manual test apparatus is available for evaluation, method development and routine laboratory use on a commercial loan or purchase basis. The apparatus uses the core technology at the heart of the Xelair<sup>®</sup> range. Methods developed using the manual apparatus can be transferred onto any platform in the Xelair<sup>®</sup> range.



Product Name	Xelair® 1 Series	Xelair® 3 Series	Xelair® 5 Series
Description	Analyst workstations	Semi-automated platforms	Full automated systems – 24/7 unattended operation
Core Technology	Uses Astech core technology for dose collection or dose recovery operations	Uses Astech core technology for dose collection and dose recovery operations	
MDI/BAI/DPI Configurations	Yes	Yes	Yes
Inhaler Shaking	A number of shake profiles are available. Frequencies up to 6 Hz with “true” user configurable profile generation and profile monitoring.		
Readily Adapted To Any Inhaler Type	Actuation mechanisms and shakers can be supplied to suit any inhaler type		
Device Tooler Changer	Optional	Optional	Optional
Automated Waste Fire Sequences	A Xelair® 1 series workstation is available for waste firing and dose collection including sonic flow confirmation	Allows execution of pre-approved sequences for waste firing. Dose collections can be scheduled anywhere in the sequence.	
Automated Dose Collection		Automated dose collection into Astech’s collection chamber. Single shot or multiple shot configurable via the method.	
Automated Control Of Vacuum Flow Rate		Yes	Yes
Sonic Flow Confirmation (P2 & P3)		Yes	Yes
Inhaler Air Flow Resistance Testing (P1)		Yes	Yes
Force/Displacement Measurements For Inhaler Actuation	Optional	Optional	Optional
Weighing Of Inhaler For Determination Of Dose Weight	No	Optional	Optional
Automated Dose Recovery	A Xelair® 1 series workstation is available for dose recovery and assay preparation. Sample output options are available	Proven techniques are used to recover the dose from the collection chamber and form a homogenous solution	
Analytical Standards		The solution can be configured to use internal and external standards	
Use Of Multiple Reagents In Single Run		Multi-reagent compatible. The type and capacity of reagent vessels can be specified by the client	
Sample Presentation		Samples delivered to vials or well plates for transfer to analysis equipment. HPLC racks can be specified by the client	
HPLC Integration		Optional, HPLC integration by automated vial transfer or direct injection methods. Data integration can be performed by XML file export or using the SDK supplied with a client’s chosen CDS.	
Automated Equipment Clean-up		Automated clean-up of the collection chamber and all drug contact surfaces.	
Unattended 24 Hour High Throughput Operation	No	No	Yes
21 CFR Part 11 Compliant Software	Yes	Yes	Yes
Validation Pack Provided	Yes	Yes	Yes