

1 Series

The Xelair® 1 Series are analyst workstations. They automate individual stages of dose content uniformity testing.

3 Series

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

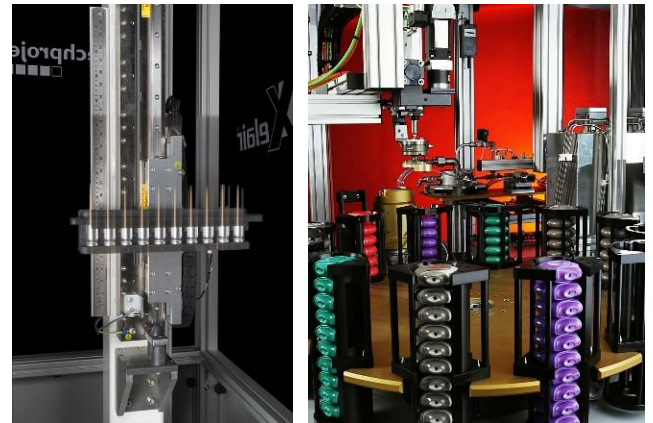
5 Series

The Xelair® 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® range. Methods developed using the manual apparatus can be transferred onto any platform in the Xelair® range.



Product name	Xelair [®] 1 Series	Xelair [®] 3 Series	Xelair [®] 5 Series
Description	<i>Analyst workstations</i>	<i>Semi-automated platforms</i>	<i>Full automated systems – 24/7 unattended operation</i>
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 available	Yes	Yes	Yes
Inhaler Shaking	Yes, a number of shake profiles are available including linear shaking, rotary shaking and arc inversion shaking. Frequencies up to 6 Hz with “true” user configurable profile generation and profile monitoring		
Readily adapted to any inhaler type	Yes, actuation mechanisms and shakers can be supplied to suit any inhaler type		
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 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
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. A number of sample output options are available	Yes, proven techniques are used to recover the dose from the collection chamber and form a homogenous solution	
Analytical standards		Yes, the solution can be configured to use internal and external standards	
Use of multiple reagents in single run		Yes, 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		Yes, automated clean-up of the collection chamber and all drug contact surfaces.	
Other integrations	Optional integrations e.g. run definitions from LIMs or run results to LIMs. Integrations are dependent on requirements e.g. XML file, CSV file, direct data connection such as ODBC.		
Unattended 24 hour high throughput operation	No	No	Yes
21 CFR Part 11 compliant software	Yes	Yes	Yes
Validation pack provided	Yes	Yes	Yes