



μ-check

Efficient weighing of
powder filled blisters

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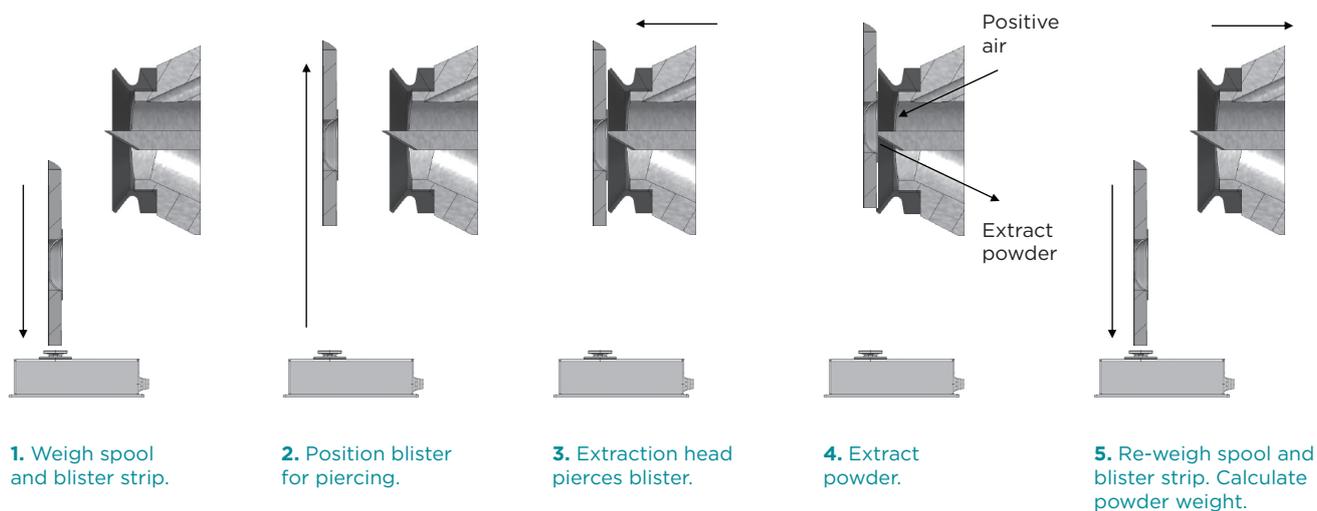
Powder checkweighing made easy

The μ -check is an innovative and easy to use automatic system for weighing pharmaceutical powders in blisters.

Accurate, reliable and fast, the μ -check automatically weighs the contents of individual powder filled blister cavities in a controlled and repeatable manner (readability of 0.01 mg). This robust and versatile bench top machine is easy to operate and maintain, it is cost effective, and it's portable size makes it ideal for use in the laboratory, clean room or at-line.

Simple, quick and efficient process

The product strip or disk is hand loaded into the machine by the operator, the μ -check automatically extracts the contents of each blister cavity in sequence, determines the sample weight, and displays the results which can then be printed or exported as required.



The μ -check has been designed to handle both blisters in strip format (individual blisters, single or twin lane multidose strips) or disks. The intuitive colour touchscreen interface enables operators to select an existing product for testing, or to set-up and store a new product recipe for use. This simple recipe system allows operators to quickly and efficiently switch between different products with ease.

An invaluable aid

The μ -check is an invaluable aid for at-line quality control tests, dosing system development and clinical trials.

The process of weighing the contents of blisters is often performed manually and can be inaccurate and time consuming. The μ -check automates this process, increasing efficiency and minimising the possibility of human error.

Benefits

- **Fast cycle time for testing**
- **Compact, portable bench top solution**
- **Quick, simple product change-over**
- **Product process parameters saved for ease of use**
- **Data displayed in tabular format**
- **Simple to use, easy clean and very low maintenance**
- **Open Platform Communication (OPC) data connectivity**

Applications

- **Suitable for a wide range of powder filled blisters**
- **Laboratory, clean room or at-line**
- **New product development**
- **Dosing system development/testing**
- **Quality assurance**

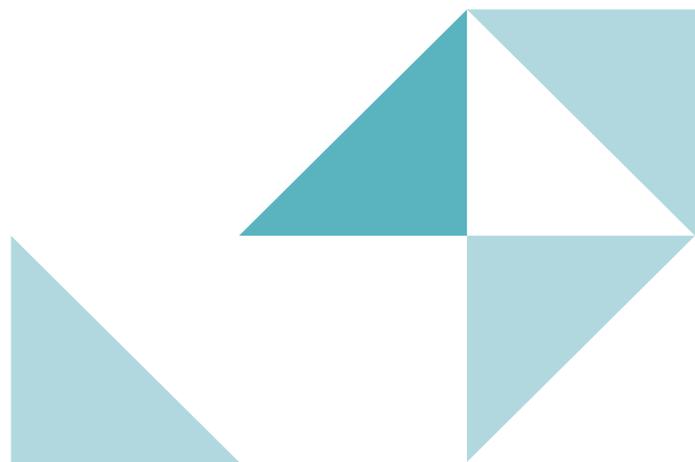


Made to fit your needs

A range of software and accessory options are available to further enhance the μ -check, enabling the system to be tailored to your specific requirements.

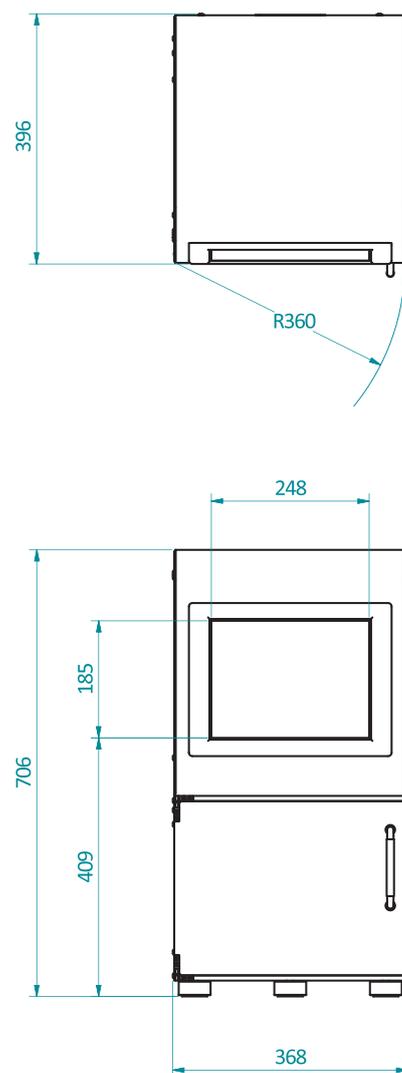
Options and Accessories

- **Additional titanium spools and disk holders**
For different blister designs or as spares.
- **Data transfer**
Data transfer configuration for connection to a factory Historian system via OPC.
- **Customised report layout**
Customisation of the layout/appearance of the printable test reports.
- **Printer**
An A4 printer that can be connected to the μ -check for direct printing of results.
- **Extraction system**
A Venturi vacuum system for the containment of extracted active powders.
- **Air service unit**
External to the machine to be fitted to the wall to filter the incoming compressed air supply.
- **Mettler Toledo care pack**
Challenge weights for WXS205S.
- **On site Mettler Toledo calibration (e.g. UKAS)**
Following installation on site we can arrange for Mettler Toledo to calibrate the weigh cell in-situ.
- **Validation documentation pack**



Technical specification

Speed	Typically less than 10 minutes to process 60 doses (powder flow characteristic dependent)
Formats	Individual blisters, single or twin lane multidose strips, or disks 30-100mm diameter*
Weigh cell	Mettler Toledo WXS205S Readability 0.01mg Maximum capacity 220g Typical repeatability 0.04mg
Power requirements	240 V/110 V 50/60 Hz Single Phase
Air supply requirements	6 bar, filtered to 0.1 µm, unlubricated air
Vacuum requirements	25 kPa at 60 lpm
Dimensions	706 H x 368 W x 396 D mm 70 kg (approx)
Screen/display	Colour touch screen
Data connectivity	OPC
Standards	CE Conformity / UL*



Standard machine package includes:

- **Single titanium spool or holder**
- **Shipping/storage case**
- **Standard documentation**

Specials outside of this specification are possible. *Specify when enquiring.

Molins Technologies reserves the right to change or modify the details and specifications shown without notice.



Extraction system

μ-check accessory

A Venturi vacuum system is the perfect partner to the μ-check, a low cost, compact and quiet system for safe and secure collection of extracted powders.

Benefits

- Easy change disposable filter cartridges
- Main filter traps ~99.999 % of powder
- Certified HEPA filter after main filter ensures capture of any residual product in exhaust air
- Higher suction pressure than vacuum cleaners
- Allows full range of μ-check process settings (such as high air flow rate for cohesive powders)
- Quieter than commercial vacuum units



Safely contain powders extracted with the μ -check

This vacuum system has been developed for use with the μ -check to safely contain extracted powder where no factory vacuum system is available for use.

The system consists of a Venturi vacuum generator, a filter cartridge and a HEPA exhaust filter to ensure that all extracted powder is securely collected. The easy change, disposable filter cartridges store the extracted powder.

The system has been tested to work with the full range of μ -check process parameters, for example with cohesive powders that require more airflow and suction. The peak vacuum level that the Venturi generates is up to 80 kPa, but the actual level at the checkweigher drops depending on the flow rate and the pressure drop through the filter.

The Venturi vacuum system is low cost, compact, easy clean and quieter than commercial vacuum units. The system is available as a wall mounted or floor standing unit.

Technical specification

Dimensions	780 H x 525 W x 300 D mm 14 kg (approx.)
Filter storage capacity	-800 g - 10" filter -1600 g - 20" filter
Vacuum	30 kPa at 60 lpm
Air supply requirements	6 bar, filtered to 0.1 μ m, unlubricated air

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Contact us for further information, to arrange a system demonstration or to obtain a quotation.

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