

INNOVATIVE TECHNOLOGIES

Air Jet Sieving Machine

AJ200



TORONTECH



Air Jet Sieving Machine AJ200

Introducing the **AJ200 Air Jet Sieving Machine from Torontech**—your premier solution for precise particle separation and deagglomeration needs.

Crafted with excellence, this innovative machine features a uniquely engineered nozzle, offering customizable rotation speeds. With this feature, **you can achieve unmatched consistency and reproducibility in your sieving results.**

Experience efficiency and reliability like never before with the AJ200 Air Jet Sieving Machine.

Measuring range:
5 µm to 5mm

Sieving motion:
Air Jetting

Max. loading:
0.3g-100g

APPLICATION

Typical sample

- Manufacturing Materials: Plastics, Rubber, Ceramics.
- Colorants & Additives: Detergents, Pigments, Toners.
- Chemicals and Pharmaceuticals Materials.
- Minerals.
- Food Products.

Working Principle

When the AJ200 is connected to a vacuum cleaner, it harnesses negative pressure to create a robust airflow. This airflow is precisely directed onto the sample particles resting on the sieve mesh through a strategically positioned nozzle located beneath the sieve.

Subsequently, a vacuum cleaner or cyclone effectively removes sample particles smaller than the mesh size by suctioning them away within this airflow. This controlled airflow process serves to both deagglomerate and cleanse the sieve mesh, ensuring optimal sieving performance.

PRODUCT ADVANTAGES

Efficient Agglomeration Reduction:

Utilizes advanced air jetting technology for effective particle deagglomeration.

Consistent Sieving Precision:

Achieves reliable and repeatable results through the implementation of a specially designed nozzle.

Versatile Sieve Compatibility:

Offers compatibility with a range of standard sieves, providing flexibility with diameters adjustable to 203mm (8") or 200mm (with adapter).

Flexible Operation Options:

Provides both manual operation as standard and the added convenience of automatic pressure control.

Tailored Parameter Control:

Allows for precision adjustments across time, vacuum strength, and speed to suit specific sieving requirements.

Streamlined Workflow Management:

Enhances efficiency with capacity to store and retrieve up to 9 standard operating procedures (SOPs) for seamless repeatability.

TECHNICAL SPECIFICATION

NAME	FUNCTION
Measuring range	5 µm to 5mm
Sieving motion	by air jetting
Max. loading	0.3g-100g
Max. number of fractions	1 (2 with cyclone)
Speed	Digital controlled, 5-55 min ⁻¹ (nozzle)
Time display	00:01 – 99:59 min
Applied to dry sieving	Yes
RS232 interface	Yes
Analysis sieves diameter	203mm/200mm (with adapter)
Chamber vacuum	20 – 99 mbar / 0.3 – 1.45 psi
Storable SOPs	9 or QUCIK START mode
Rated power	220V, 50/60Hz (110V Also available upon request)


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