Aerosplit 100 Classifier

Models

Suitable for laboratory use or pilot and small-scale production.

Applications

Suitable for product formulation trials and R&D work prior to full-scale production, the Aerosplit 100 Classifier is the smallest of the forced-vortex air classifiers and has been developed specifically for low volume powder production. Supplied as a complete system, incorporating a feeder, classifier and product-collection system, the Aerosplit 100 provides very sharp cuts below 75 microns. It is typically utilised in the ceramics, chemical, metal powders and pharmaceutical industries where the cost-effective separation of smaller material volumes into tight particle size distributions is critical to success.

The Aerosplit 100 can be supplied with interchangeable components enabling it to be easily converted to an Opposed Jet Mill System complete with integral classifier for the particle size reduction of a wide variety of materials. The simple conversion requires the substitution of a grinding chamber in place of the classification chamber. All integrated ancillary equipment (feeder, product collection system and induced draught fan) remains unaltered. The system has been pre-designed to accommodate the necessary additional controls.

Features and benefits

- Operating range from 1 to 75 microns with a feed rate of 1 to 75 kgs/hr
- Excellent sharpness of cut
- Control of mean particle size within 0.5 microns
- Precise on-stream control of cut-point by variation of rotor speed
- Adjustable secondary air system for optimisation of classification efficiency
- Portable/mobile unit
- All contact parts manufactured in stainless steel
- Optional screw or vibrating tray feeders
- Feed and product bin capacities to suit customer requirements

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Aerosplit 100 Classifier equipment range technical data

AEROSPLIT MODEL	MAXIMUM WHEEL SPEED (RPM)	NOMINAL CLASSIFIER MOTOR SIZE (KW)	MAXIMUM TOTAL AIRFLOW		PRESSURE DIFFERENTIAL ACROSS UNIT (mm/SWG)
			(M^3/HR)	(CFM)	
100	15,000	1.5 – 2.0	220	129	640

Note: All data provided is for guidance only and may be varied at any time by the company.

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