

Product Name :
Gas Flow Classification

Product Code :
NLAB-ENGINEERINGLB54019



Description :

Gas Flow Classification

Technical Specification :

- Zigzag sifters permit classification of solid compounds.
- The solid compound being separated is charged into the feed hopper.
- The compound is fed into the zigzag duct of the sifter at mid-height by way of a vibrating trough.
- An air stream flows upwards through the vertical duct.
- Depending on the geometry and density of the particles, they are carried along by the air or drop down due to gravity.
- At every bend in the duct the solid compound passes through the air stream and falls onto the opposite wall of the sifter.
- This corresponds to one sifting stage.
- Owing to the flow conditions, a vortex wake is formed between two bends of the zigzag duct.

- It ensures that the solid matter moves roughly perpendicular to the airflow.
- In this way, a transverse sift takes place at every bend.
- Sequencing of large numbers of such stages results in very fine separation.
- Features a 20-stage zigzag duct.
- Transparent material provides optimum observation of the processes in the duct.
- A fan generates the airflow.
- The airflow rate and the solid mass flow are adjustable.
- The fine material transported upwards with the air stream is separated by a cyclone.
- Pressure measurement points at the relevant positions in the trainer enable to determine the pressure loss.
- Sand in different particle sizes is recommended for use as the feed material.
- For particle size analyses of the feed and of the coarse and fine material, a balance and a screening machine are recommended.
- The well-structured instructional material sets out the fundamentals and provides a step-by-step guide through the experiments.

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