

VORTI-SIV

PHARMACEUTICAL LAB CASE STUDY

THE APPLICATION

The sieving and de-agglomeration of 1 kg batches of pharmaceutical powders for a large pharmaceutical manufacturer. The material needs to be sieved in 5 minutes through U.S. 45 or finer mesh.

THE PROBLEM

Most of the samples have agglomerates. Coarse particles need to be removed from the samples.

THE SOLUTION

VORTI-SIV Model RBF-10 gyratory lab sieve utilizing a variable speed frequency control with our SFA® Ultra-sonic deblinding kit. In addition, stainless steel disks are used to break agglomerates.

THE BENEFITS

Minimum Clean-up and Product Changeover-

Only two (2) stainless steel sanitary product contact parts enables fast change-over. An optional removable dome or scoop feed cover enables dust-free sieving.

De-Agglomerating Sieve-

Four (4) highly polished stainless steel 2" diameter disks are put on the screen surface to break the agglomerates. The RBF-10 mechanical gyration causes the disks to randomly impact agglomerates, reducing all lumps to fine powder.

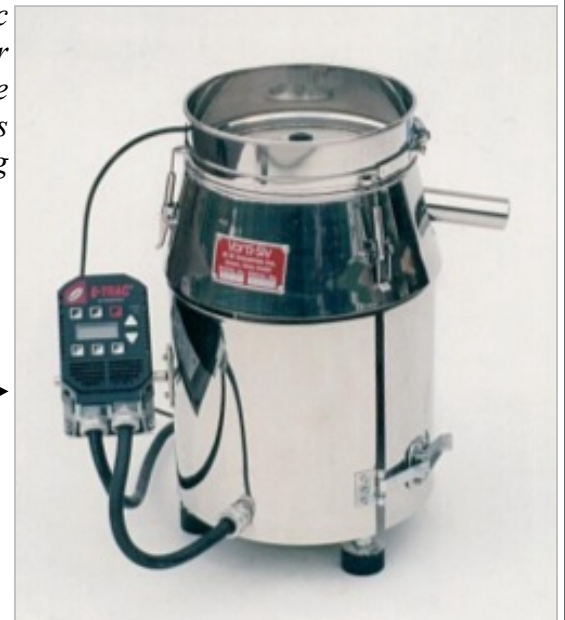
SFA® Deblinding Kit-

A single phase 110/220 volt Ultra-sonic auto-tuned processor with a screen mounted transducer supplies additional high frequency energy. Screen blinding of the pharmaceutical powders is eliminated even with difficult powders such as magnesium or calcium stearate, etc.

Variable Speed-

The RBF-10 utilizes a 3450RPM electric motor. A digital frequency inverter enables the mechanical vibration to be controlled from 800 to 3450RPM. This feature improves the processing efficiency of each product sample.

All stainless steel Model RBF-10 with SFA® Ultra-sonic deblinding transducer and variable speed drive.



Two stainless steel contact parts including: discharge funnel & screen element.



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