VORTI-SIV®
A DIVISION OF VORTI-SIV® A DIVISION OF Industries, Inc.

STANDARD & ULTRA-SONIC LAB SIEVES

Efficient Sieving & Straining for Small Batches

8", 10", & 12" Lab Models

The VORTI-SIV Lab Model RBF-10 (10" screen diameter and RBF-12 (12" screen diameter) are two of the most advanced small batch sieving machines on the market. The units are totally enclosed, heavily constructed, and weigh 90 lbs. They are driven by a 1/3 HP open frame, TENV, TEFC, or explosion proof 3450 RPM electric motor. The explosion proof or TEFC option adds 2"-6" to the RBF overall height. Alternatively, a multi-vane air motor is available for pneumatic applications. The model RBF-8 is available for adapting to certified A.S.T.M. 8" diameter stainless steel or brass test sieves. These models are extremely effective on many wet and dry products.

Successfully processed products include:
Paint, Inks, Cosmetics, Dental Materials, Pharmaceuticals, Paper Coatings, Powered Metals, Resins, Adhesives, Latex's, Grinding Media, Foods, Powder Coatings, and an unlimited number of highly specialized applications.

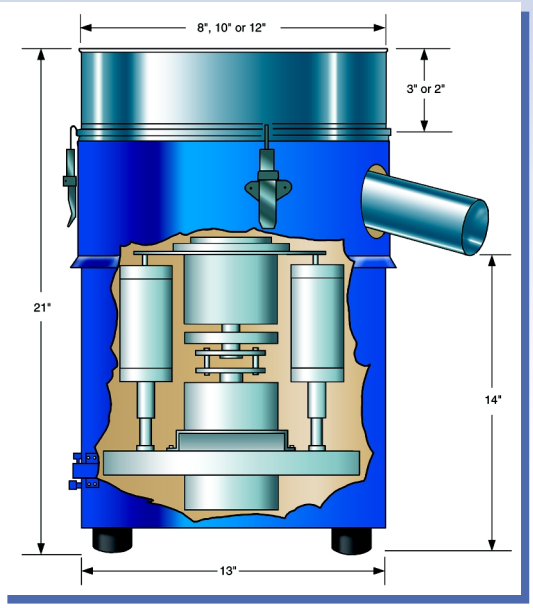
GYRATORY ACTION-MOBILITY

VORTI-SIV Lab Models use a unique gyratory screening-action generated by two adjustable off-balance flywheel weight, which are powered by a direct drive 1/3 HP, 3450 RPM motor. Any point on the screen surface moves in a circular orbit, but the screen itself does not rotate. The top section of these units gyrates while the bottom is stationary. All models are constructed on rubber pads, thus enabling easy table mounting. Quick release clamps (3 required) enable easy dismountability for clean-up and changeover.

MULTIPLE DECKS/CONTINUOUS DISCHARGE

Applications with several particle sizes may require multiple stacked screen elements. The RBF-10 and the RBF-12 are constructed to enable up to eight (8) additional decks. Decks require a rim locking band for each screen. The standard screen rim height is 2" or 3" for each stacked screen. An oversize discharge chute with a deflection scroll is utilized for continuous large particle removal.

All stainless steel lab food/pharmaceutical Model RBF-10 with variable speed frequency drive.



Single deck Model RBF® lab unit.

STANDARD LAB VARIATIONS

SPECIAL APPLICATIONS

The RBF® Lab units are widely used for many customized applications. Shown is Model RBF-12 with three screen decks and continuous oversize chutes. A stainless steel self-feed hopper with slide gate is mounted above the RBF-12. The vibration from the base of the sieve is transmitted directly to the feed hopper. A scoop feed cover is utilized to minimize dust from the top screen. Three SFA® Ultra-sonic deblinding kits are attached to each screen deck to prevent blinding at finer mesh sizes.

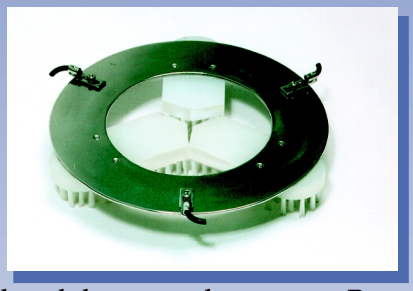
RBF®-LAB

The VORTI-SIV Lab Units' dismountable and quick change screening element adapts itself to inplant screening control. Removable stainless steel and nylon screening are immediately available from VORTI-SIV. Sizes range from 10mm to 2 micron. All VORTI-SIV Lab equipment is totally enclosed and available with optional removable or welded dome, scoop feed lid, or special dust covers.

TWO CONTACT PARTS

Removable lab model stainless steel product contact parts. Shown is a shallow discharge funnel (right) and a main 3″ rim with soldered or bonded screen element (left). With only two contact parts, it enables easy product clean-up and color change-over.

ROTATING BRUSHES



Standard deck Lab model option is a rotary brush assembly utilizing wipers or nylon brushes. Brushes/wipers are used to slow screen blinding or break loose agglomerates. Bumpers contacting the gyrating rim cause the assembly to rotate across the screen surface.

SFA® ULTRA-SONIC KIT

A single phase 110/220 volt Ultra-sonic auto-tuned processor with a screen mounted 32 Watt transducer that supplies additional high frequency energy. Screen blinding of the powder is eliminated even with difficult materials. Available on single and multiple deck units.

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