

# VIBLETTE

[Viblette™ VBL]

## SUMMARY

Easy operation, Short measuring time & Perfect Repeatability It's Viblette Effective wetting of dry powder/slurry material by specially designed showering nozzles( sprinkler ). Electro magnetic vibration mechanism breaks liquid film on sieve surface.

## FEATURES

- Short measuring time: 1/3 of conventional wet sieve  
Enhanced vibration force prevents the sieve screen from liquid filming phenomena. It drastically quickens the completion of measurement.
- New phase of screen size in wet sieving: 10micron  
Applicable for 10 micron screen without filming problem
- Compliant for 75mm sieve drum (option)  
In addition to the standard drum (200mm), three sets(max) of small drums can be set in an adapter for simultaneous measurement.
- Small amount of required liquid quantity: 1/6 of conventional wet sieve  
Specially designed showering nozzles reduce total amount of required liquid, although liquid is sprayed all over the sieve. The amount of waste liquid is minimized.
- Repeatability of operation (option)  
As the operating condition ; the rotation speed of sprinkler, amplitude of vibration and operating time could be set at constant, highly repeatable and accurate measurement can be carried out.
- Huge amount slurry processing is possible  
Combination with special feeding device (option ) , high slurry sieving rate is realized ( max.10L/min).



Wet Sieving Machine, Viblette VBL

## APPLICATION

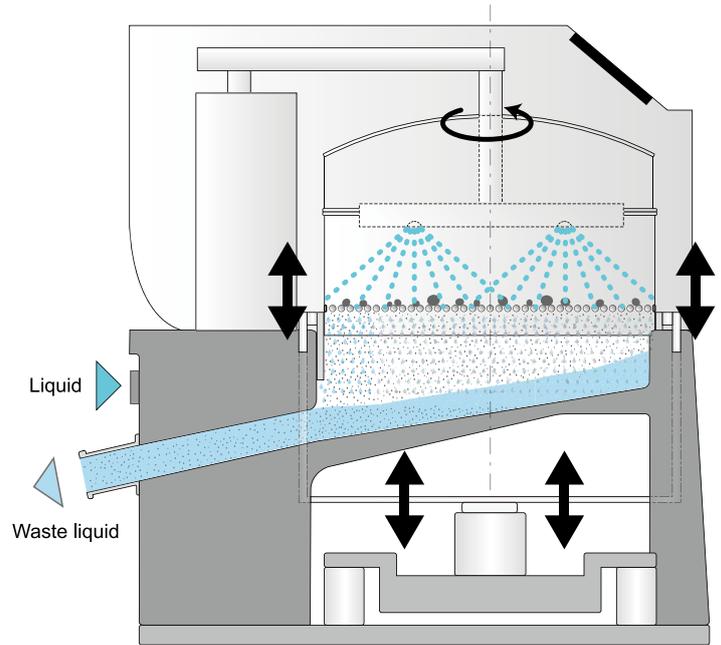
- Most applicable for controlling small amount coarse particles which can not measured/detected by laser diffraction device
- Widely used for sieving highly cohesive material in dry sieving technology
  - + Dielectric material BTO : Checking a few coarse particles
  - + Carbon black : Product control ( PPM of foreign material)
  - + Filler material : Fine cohesive calcium carbonate

## STRUCTURE

Liquid is sprayed through shower nozzles at the sprinkler to the powdery sample on the sieve. The sprinkler is rotated by liquid pressure realizes even wetting of powder. (Please refer to the attached sketch)

In case of highly cohesive sample, liquid feed rate( =liquid pressure) is increased. For the requirement of higher liquid rate at lower sprinkler rotation speed, an independent control of liquid rate and rotation speed is provided as an option.

Generally speaking, fine screen in wet sieving brings filming problem. Liquid film is formed at the screen and neither liquid nor fine particles can not pass through the screen. Strong vibration force of Viblette breaks the film and shortens the measuring time.



Schematic of Viblette

## SPECIFICATION

Model		VBL
External dimension W×D×H	(mm)	320 x 420 x 410
Weight (Figures in [] indicates option integrated)	(kg)	40 [43]
Sieve drum size	(mm)	200 or 75 (option)
Finest sieve opening	( $\mu\text{m}$ )	10
Electric power supply	(V)	100-240 (50/60Hz)
Required liquid quantity, In case of 200mm drum	(L/min)	5
In case of 75mm drum	(L/min)	4



Process Technologies for Tomorrow

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