Gilsonic Auto Siever Sonic sifter

GA-6/GA-8

Gilsonic Autosieves GA-6 and GA-8 are measuring instruments that perform sieving by sonic vibration. The sonic waves cause the air to move up and down inside the sealed sieve, and the sample is placed on the sieve to be classified.
The sample moves perpendicularly to the sieve mesh, allowing for efficient classification and the classification of granules without destroying them.
In addition, mechanical pulses are attached in the vertical and horizontal directions, and these pulses knock out clogging. The vertical vibration of air by sonic waves, the vertical and horizontal vibration impact by mechanical pulses, and the repetitive motion of these three actions enable accurate classification.
Up to 10 measurement programs can be stored. This simplifies the measurement process by eliminating the need for re-setting.

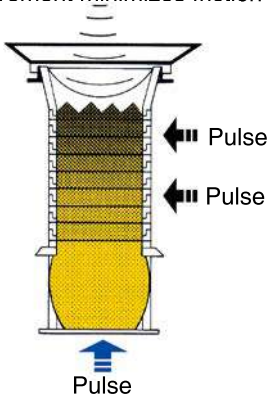
GA-6

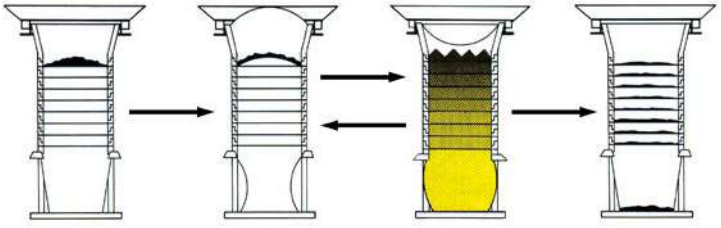
GA-8

Made by gilson

Sieving Principle

Sonic sieving uses sonic vibrations generated by a speaker to vibrate only the air inside a sealed sieve. This vibration of the air causes the sample in the sieve to repeat a cyclic vertical motion. The sample jumps up from the sieve every half cycle and returns to the sieve in the next half cycle, separating the material that passes through the sieve and the material that remains on the sieve. This movement minimizes friction of the powder against the sieve and also prevents wear of the sieve. In addition, mechanical pulses are applied from the bottom and side of the sieve to prevent clogging, thereby eliminating particle overlapping, adhesion and agglomeration caused by static electricity and moisture absorption, and enabling classification in a short period of time.

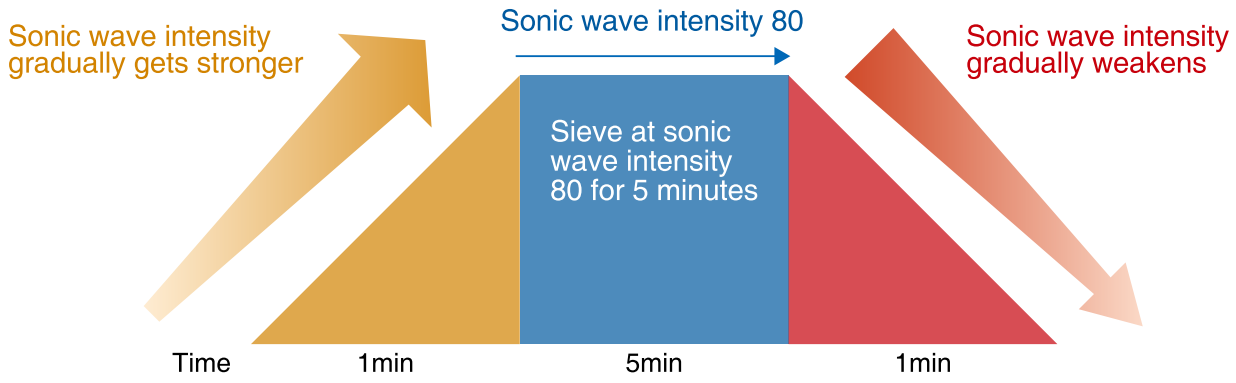




Sonic wave smoothing mechanism

Applying a strong sonic wave will increase the dispersion effect, but applying a strong sonic wave instantaneously will apply extra force and cause clogging. Also, if the sonic wave is suddenly stopped, the moving sample will adhere to the sieve frame.
To prevent this, sieving is first started with weak sonic waves, then gradually shifted to a set sonic wave intensity, and after sieving for set period of time, the sonic wave intensity is gradually lowered to stop.
GA-6 and GA-8 can save up to 10 patterns of rising and falling sonic waves. Saved settings can be recalled and used without the need to reconfigure.

Exsample



Specification

Model	GA-6	GA-8
Dimension	W254×D254×H508mm	W483×D584×H1143mm
Weight	18kg	68kg
Power	115/230V、50/60Hz/40w max	115/230V 50/60Hz/100w max
Sieve diameter	φ75/ 7sieves	φ200/ 7sieves
Sifting time	0～99.9 min	0～99.9 min
Sonic wave intensity	0～99	0～99
Program memory	10programs	10programs
Tapping	Selectable from 3 types: lower pulse only, lower pulse + horizontal pulse, or no pulse operation	Horizontal pulse: 7 sets of left and right, controllable at each level Lower pulse: controllable in 1or 2 sets (2 pcs/set)
Range	5～5600μm	5～5600μm

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