



Gravity Ionized Air Rinser



BW Integrated Systems' Gravity Ionized Air Rinser is an invaluable machine that is becoming increasingly popular for filling operations that require dry, sanitary rinsing of containers. The key procedure is the use of a high pressure ionized air assembly which consists of an ionizer component that positively charges filtered plant air and applies the air through a header with nozzles. Empty cans are supplied to the rinser from an overhead conveyor via fittings which rotate them into a horizontal orientation.

Gravity Ionized Air Rinser

The cans enter the rinser and are rotated, open end down, to an appropriate rinsing angle. The nozzles spray a high pressure stream of the charge air into cans that are delivered downward through stainless steel gravity track. The ionized air neutralizes the static charge accumulated on containers from friction thus breaking free the particles and small debris that are clinging to the insides and outsides of the containers. The debris and particles are removed from the containers and directed through a filtered vacuum system. Once the cans are rinsed, they are then rotated back to the horizontal position and exit the rinser. Air rinsing is a fast, effective way to clean empty cans.

Depending on the product, a rinser can clean 1600 cpm, per lane, with gravity infeed and discharge fittings. Higher speeds are possible with air assisted tunnel track infeed and discharge conveyor. Air rinsing can also help reduce operating costs and, through water conservation, have a positive environmental impact. BW Integrated Systems' self-contained modular rinser is designed and built to be easy to use and maintain. Lexan "gull wing" type access doors allow easy access to the rinser area and filters can be quickly inspected and replaced through the side access doors. For maximum flexibility this rinser is available in single and multiple lane configurations and will handle a variety of can types and sizes.

Changeover is accomplished with a manual change of gravity twists and adjustment of track for multiple can sizes and the use of "quick-change" or "quick-release" brackets and clamps as needed. Optional components include: gatling gun quick changeover on multiple lanes, each dedicated to a container size to minimize changeover.

Ionized Air Filtration:

- First stage: 0.3 micron coalescing filter with 5 micron particulate pre-filter and auto drain feature
- Second stage: activated carbon vapor absorbing grade coalescing filter with auto drain feature

Contact our experienced sales teams today for a comprehensive review of your application(s) and to see how our Gravity Ionized Air Rinser can benefit your company.



Blower with filter

Features

- High-pressure air rinsing neutralized with ionized air
- Gravity-controlled can flow
- Comprehensive three-stage filtering system
- Easy access filter replacement with indicators
- Self-contained control system and panel

Specifications

Compressed Air Usage

3.4 SCFM @ 35 PSIG per nozzle
17 SCFM @ 35 PSIG total (single lane operation)
Line size: 1/2" NPT

Utility Requirements

460/60/3 for 3 HP recirculating air fan
110VAC control voltage
80 PSI clean dry compressed air supply

Note: Specifications shown are for a standard machine and are subject to change without notice