Contactless cleaning with an air stream
Protection against dust collection through ionization and integrated suction

The high demands towards purity requirements within specific production processes in the food industry, require the proper utilization of high quality and professional cleaning systems made of stainless steel. An interim and final cleaning is usually required. However, since it is often the case that such a system cannot be installed into a work process due to the spatial or production conditions, Ziegener + Frick has developed the IONCLEAN B cleaning box. Since it is offered in various sizes and through its simple and manual operation, this unit can be easily integrated into all kinds of manufacturing processes.
Cleaning Technology

Cleaning box
IONCLEAN B

Application examples

Food industry
Cleaning of food transport containers, foils and packaging.

Electronic semiconductor industry
Cleaning of circuit boards, displays.

Medical technology
Cleaning of semifinished products.

Supply unit for IONclean with timer control
Generating a control voltage of 24V DC to supply external sensors. Control / monitoring of the dust collector and the ionization.

Automatic sequence control:
If the signal "1" (24V DC+) is triggered at the sensor socket the built-in air pressure valve will be controlled according to the setting on the multi-function timer relay.

Cleaning box

Housing:

Material: V2A 1.4301
Active width: 100 to 600 mm
Grid width: 100 mm
Overall width: active width + 40mm
Depth: 300 or 400 mm
Height: 250 mm

Vacuum aspiration:
Dust collector: D = 76 mm
Transvector: D = 51 mm

Voltage: 2 x 7.0kV
Pressurized air:
Ionization: per transvector 2 x 10 mm

Ionization at 3.0 bar:
Active width 100 mm: 80 l/min
Active width 200 mm: 180 l/min
Active width 300 mm: 280 l/min
Active width 400 mm: 380 l/min
Active width 500 mm: 500 l/min
Active width 600 mm: 600 l/min

Transvector at 6.9 bar:
Active width 100 mm: 708 l/min
Active width 200 mm: 708 l/min
Active width 300 mm: 708 l/min
Active width 400 mm: 1416 l/min
Active width 500 mm: 1416 l/min
Active width 600 mm: 1416 l/min