

Particulate Control Particle Trap® Cube



Particle Trap® Cube (PT Cube) is an innovative particle cleaning, source-capture system that solves a major problem when blowing off contamination in controlled or clean room environments. Particulates are permanently removed from the environment and process, ensuring foreign matter (FM) is eliminated from your medical devices, optics, ESD sensitive electronics, and packaging materials.

The PT Cube's balanced static neutralizing ionizers, along with adjustable high-velocity compressed air nozzles, efficiently blow particles off parts, even parts with tough geometries and crevices. Particulates blown off parts inside the PT Cube are pulled forward by a powerful fan, into a 10-micron filter, trapping FM in the system. Clean air exhausts at the rear of the PT Cube, protecting your clean room, workstations, processes, and materials from recontamination.



Clean with **Particle Trap®** Confidence!

■ APPLICATIONS

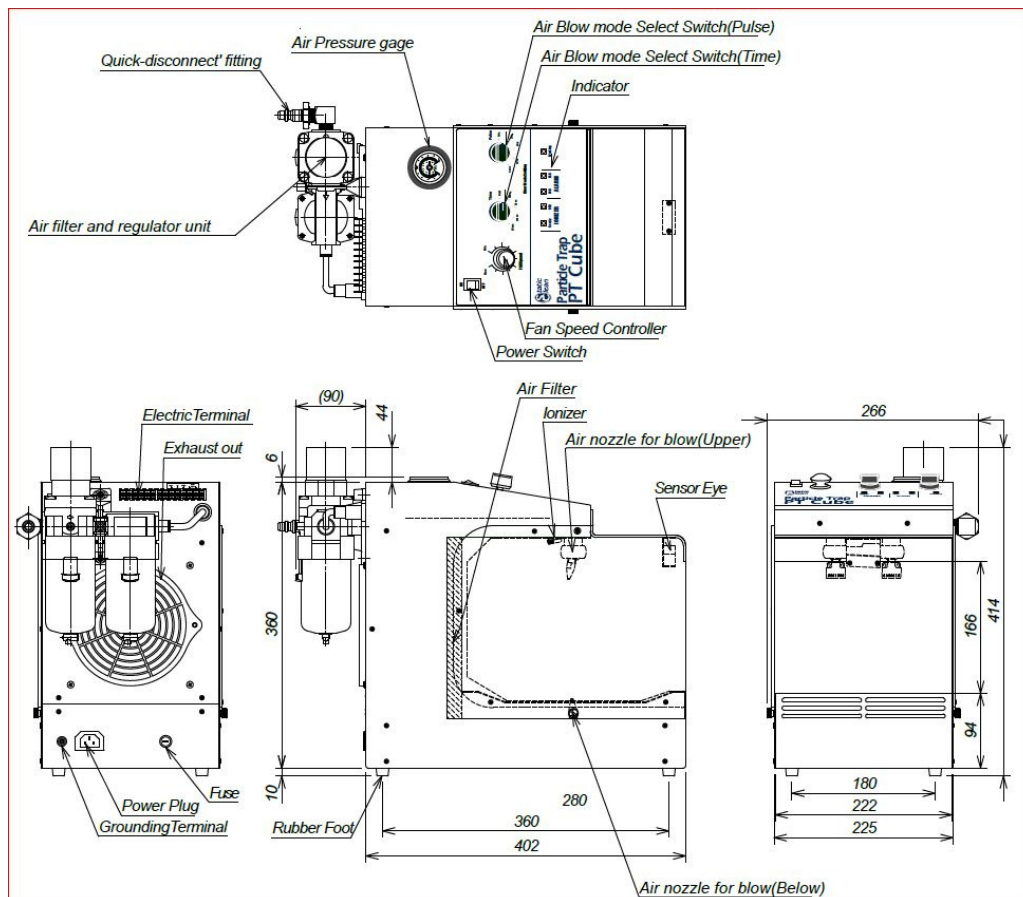
- All-In-One System designed to efficiently remove loose, dry surface contaminants then source-capture and trap FM blown off during cleaning
- PT Cube is ideal for small to medium size parts, assemblies and packaging trays
- Typical applications include;
 - Medical Device parts, assembly and package cleaning
 - Optics processing, assembly and packaging
 - Injection Molded parts (e.g., de-gating, mold-flash, airborne particles)

■ FEATURES & BENEFITS

- PT Cube Significantly reduces costly rejects, teardown and rework
- Compact size maximizes bench space

- A sensor controls compressed air and ionization for maximum energy efficiency
- Three HDC-AC Balanced Ionizers neutralize static charges on parts instantly for enhanced cleaning
- Three adjustable 24mm air nozzles - 2 at the ceiling, 1 at the floor – blow particulates off parts and out of crevices
- Flexible Air Nozzle 'Pulse' Blow-Mode setting of 1, 3, 5, 10Hz or Continuous are ideal for cleaning parts of all shapes, from simple to complex
- Selectable Time Mode turns Air Nozzles off after 3, 5, 10 or 15 seconds; or 'Real' (time) keeps nozzles on while under the sensor
- The adjustable fan pulls FM forward, into the filter at the rear of the chamber
- Quick-change 10-micron Filter traps particles
- Filter/Regulator and gage controls air nozzle pressure
- Clear Acrylic Sides and Top for high visibility

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Dimensional Drawing



Dual-Stage Compressed Air Filtration
5-micron > 0.3-micron



Controls for Power, Fan Speed, Blow Mode, Status Indicators & Pressure

Specifications	
Dimensions (incl. filter/regulator)	8.9"/225mm W x 16.3"/414mm H x 19.4"/492mm D
Depth of Chamber (to filter face)	11.8"/300mm
Weight	22 lbs./10 kg
Electrical Input	100~240VAC, 50/60 +/- 10% @ 240W max.
Ionizers (3)	HDC-AC Technology; +/- 30V max Balance; 1.0 sec or less Decay @ 87 psi
Fluid	CDA (clean, dry air) @ 29~87psi / 0.2~0.6Mpa
Air Connection	3/8" NPT Female Port (3/8" NPT Male x 1/4" Quick-Disconnect fitting included)
Filter (Replaceable)	98% efficient @ 10-microns
Noise	75 dBA @ 3' Front (compressed air off)
Blow Mode Pulse Options	1, 3, 5, 10Hz or Continuous
Blow Mode Time Options	3, 5, 10, 15 seconds or 'Real'
Fan Speed	Variable, up to 495 cfm (max)
Air Consumption @ 45psi	9.5 cfm / 270 lpm
Environment	32~104F / 0~40C; 15~85% RH (non-condensing)

Part Numbers For	PT Cube Spare/Replacement Parts
PTCFLT	Filter, 10-Micron, for Particle Trap Cube; 5/pkg
AF40P-060S	Filter Element Only; 5-micron, For ASF38C & ASFRG38
AFM40P-060AS	Filter Element Only; 0.3-micron, Coalescing for ASF38C & ASFRG38C
210-0502	Fan / Motor Assembly