

Six-Stage Microbial (Viable) Cascade Impactor CTZ-MCI-6



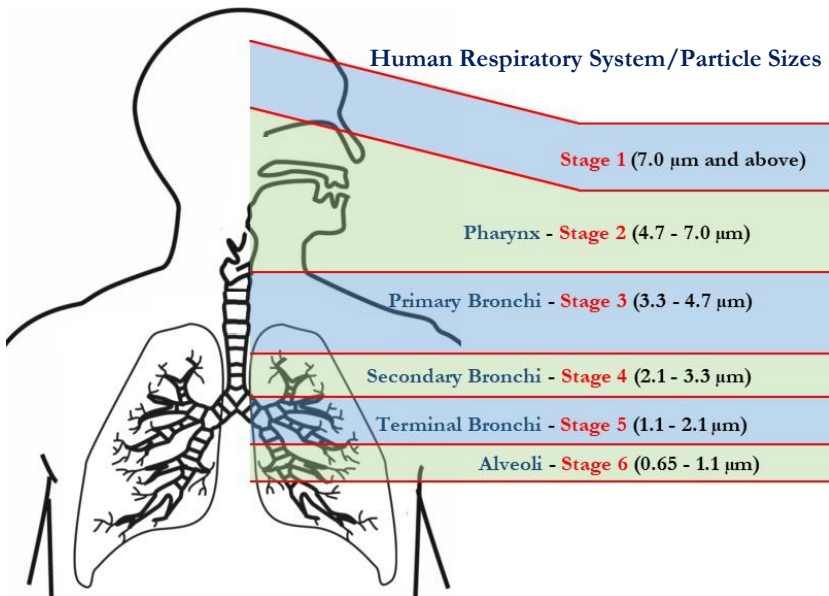
CTZ-MCI-6 Model Six Stage Microbial (Viable) Cascade Impactor (Air Sampler) is multi-orifice. It used to measure the concentration and particle size distribution of aerobic bacteria and fungi in the intramural or ambient air. These units have been widely used for enumerating the viable particles in a microbial aerosol.

Viable particles can be collected on a variety of bacteriological agar and incubated for counting or identification. These samplers are designed so that all particles collected, regardless of physical size, shape, or density are sized aerodynamically and can be directly related to human lung deposition. The multi-orifice cascade impactor size-selective feature permits the assessment of an airborne contaminant in relation to its disease potential arising from its deposition site within the respiratory tract.

The CTZ-MCI-6 Model Six Stage Microbial (Viable) Cascade Impactor requires Petri dishes. The Petri dishes are removed after the sampling, incubated, and counted by an accepted method.

Assembly Parts

CTZ-MCI-6 has included Six parts stages with O-rings, one bottom part with O-ring, one inlet cone with O-ring, and three clamping parts.



Range of particle sizes collected by each stage

Stage	Orifice Diameter (mm)	Particle Size (µm)
Stage 1	1.18	7.0 and above
Stage 2	0.91	4.7 to 7.0
Stage 3	0.71	3.3 to 4.7
Stage 4	0.53	2.1 to 3.3
Stage 5	0.34	1.1 to 2.1
Stage 6	0.25	0.65 to 1.1

Ordering Information

Part Number	Description
CTZ-MCI-6-11	Six Stage Microbial Viable Cascade Impactor with vacuum pump-110V and carrying case-L
CTZ-MCI-6-12	Six Stage Microbial Viable Cascade Impactor with vacuum pump-220V and carrying case-L
CTZ-MCI-6-10	Six Stage Microbial Viable Cascade Impactor with carrying case-M without vacuum pump
CTZ-MCI-6-00	Six Stage Microbial Viable Cascade Impactor without vacuum pump and carrying case
CTZ-CASE-01	Carrying case-Medium-Interior dimensions: 30,2x22,9x13,5 cm (11-7/8in.x9in.x5-5/16in.)
CTZ-CASE-02	Carrying case-Large-Interior dimensions: 37,8x27x15,6 cm (14-7/8in.x10-5/8in.x6-1/8in.)
CTZ-PUMP-01	Vacuum Pump 1 cfm (28.3 L/min)-110V
CTZ-PUMP-02	Vacuum Pump 1 cfm (28.3 L/min)-220V

