



*Manufacturer of Air Pollution Monitoring Equipment*

## TE-20-800

### AMBIENT (NON-VIABLE) EIGHT-STAGE CASCADE IMPACTORS

#### Eight-Stage Ambient Sampler System includes:

- 8 aluminum orifice stages
- 8 stainless steel collection plates
- back-up 81mm filter holder
- silicone o-ring gaskets
- vacuum pump assembly
- carrying case

- PM<sub>10</sub> high-capacity preimpactor ensures accurate separation
- high sample flow rate of 28.3 ALPM
- size separation from >9µm to <0.4µm
- optional volumetric flow-controlled vacuum system
- corrosion-resistant alloy aluminum with silicone seals

#### *Aerodynamic sizing and distribution of ambient particulate with unprecedented precision, cost, and ease of operation*

- time-proven virtual elimination of particle bounce and reentrainment
- highest proven collection efficiency, reproducibility, and accuracy
- aerodynamic particle separation in nine (9) size fractions
- 81mm sample substrates for easy handling and weighing with analytical balance
- incorporates US Federal standards for the "Ideal Cascade Impactor" and meets OSHA, EPA, and ACGIH design requirements for respirable/non-respirable fractionation

#### **Cut-Points for the Tisch Environmental Eight-Stage Non-Viable Impactor at 28.3 LPM**

Stage	Micrometer Cut-Point Operating @ 28.3 LPM
Preseparator	10.0 and above
0	9.0
1	5.8
2	4.7
3	3.3
4	2.1
5	1.1
6	0.7
7	0.4