



# ACI 1 Stage

## ANDERSEN CASCADE IMPACTOR

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# ACI 1 Stage

ANDERSEN CASCADE IMPACTOR



Produced with  
**AISI 316**

Impactor 1 Single Stage is one of the configurations of Andersen Cascade Impactor 6 stages. It has utility as a simple and convenient method for estimating the concentration of viable airborne microorganisms.

The 1 Single Stage Viable Impactor consists of one sampling stage. It contains 400 jet orifices. When air is drawn through the sampler, multiple jets of air direct any airborne particles on to the surface of the collection plate. The 1 Single Stage Viable Impactor requires an exact flow rate of 28.3 L/min for a cut-off of 0,65 µm, or higher flow in case of different cut-off required. Pre-separator can be used to remove aerosol coarse fraction.

Particles are collected directly in the Petri (ø 90 mm) filled with the most appropriate culture medium.

It is possible to use also gelatine filter, impaction plates or any kind of support with rna/dna preservative for example to allow sample preservation for virus.

The One Single Stage Viable Impactor is made of stainless steel, strong and durable material, not destroyed at high temperatures of the incubator and aggressive detergents.

## Sampling

Normal sampling periods for viable aerosols will vary from a few minutes up to 30 minutes depending on the purpose for which the sample is collected and the type of air environment being sampled.

## Products Codes

Products	Codes
1 Stage Cascade Impactor (Single Stage)	AC99-120-0008SP
Manual pump, Bravo R Basic (max flow 50 L/min)	AA99-000-0040SP
Rotary pump with automatic flow control (Bravo X BIO)	AA99-000-0740SP
Glass Petri dishes, 18 pcs	AC99-120-0006SP
Plastic Petri dishes, 720 pcs	AC99-120-0007SP

## Applications



Pharmaceutical  
Production



Indoor Air Quality  
Studies



Wastewater  
Treatment Plants



Food Production



Cosmetic  
Manufacturing



Hospitals



Clean Room  
Efficiency Studies



Bio-Risk  
Response

### Configuration of Andersen Impactor 6 Stages (viable):

Working rate	28,3 L/min
Particle size	1 stage (0,65 µm)
Material	AISI

## Pump

To arrive until a flowrate 28,3 L/min, the correct pump is used and connected to the Impactor. It can be used Bravo X Bio or Bravo Basic R (TCR Tecora®) according to the correct working flowrate. High volume sampler like ECHO HV model can be used for flow until 1000 l/min.

