



## Description

Air enters the tunnel through an aerodynamically designed effuser (cone) that accelerates the air linearly. It then enters the working section and passes through a grille before moving through a diffuser and then to a variable-speed axial fan. The grille protects the fan from damage by loose objects. The air leaves the fan, passes through a silencer unit and then back out to the atmosphere. A separate control and instrumentation unit controls the speed of the axial fan (and the air velocity in the working section). The control and instrumentation unit also includes manometers and electrical outlets to supply electrical power to other optional instruments. A metal frame supports the wind tunnel. The frame includes lockable castors for convenient mobility. Working Section The working section of the tunnel is a square section with a clear roof, sides and floor. The sides are removable. The floor and each side panel has a special position to support the optional wind tunnel models. Supplied with the wind tunnel are a protractor and a model holder to support and accurately adjust the angle of any models fitted. Two traversing probes fit on the working section. One is a Pitot-static tube and the other a standard Pitot tube. They fit upstream and downstream of any models and connect to the manometers on the instrumentation unit (or other optional instruments) to show pressure.

## Features

A wind tunnel for conducting experiments in aerodynamics  
Safe, compact, open-circuit suction wind tunnel – a cost effective solution when compared to full-scale wind tunnels  
The optional ancillaries work with Versatile Data Acquisition System  
Additional models and instruments available to extend the range of experiments  
Wind tunnel controls mount on a separate, free-standing instrument frame for ease of use  
The wind tunnel has wheels for easy mobility  
Also available as a starter set with a basic lift and drag balance and a set of models

## Specifications

ATICO is committed to a programme of continuous improvement; hence we reserve the right to alter the design and product specification without prior notice.

Nett dimensions and weight (assembled):

3700 mm x 1065 mm x height 1900 mm and 293 kg

Approximate packed volume and weight: 4.9 m<sup>3</sup> and 450 kg

Space needed: Solid, level floor – allow at least 2 m of free space around the inlet and 4 m at the outlet

Working section: 305 mm x 305 mm, and 600 mm long.

Air velocity: 0 to 36 m.s<sup>-1</sup>

Noise levels: 80 dB(A) at operators ear level.

Electrical supply (three phase): 200 VAC to 240 VAC 50 Hz/60 Hz (20 A) or, 380 VAC to 440 VAC 50 Hz/60 Hz (16 A)

## Operating Conditions

Operating environment:

Laboratory

Storage temperature range: -25°C to +55°C (when packed for transport)

Operating temperature range: +5°C to +40°C

Operating relative humidity range:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

# ATICO EXPORT

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## Regd. Office and Unit 1

274, HSIIDC, Sector II, Industrial Growth Centre,  
SAHA 133105 ( Haryana ) INDIA

Mob. : +91-9996186555, +91-9896793832

Email: sales@aticoexport.com, aticoindia@gmail.com

Website: www.aticoexport.com

## Unit 2 :

288, HSIIDC, Sector II, Industrial Growth Centre,  
SAHA 133105 ( Haryana ) INDIA

## Unit 3 :

61, Industrial Area, Ambala Cantt - 133001