

LABORATORY PRECISION OVEN

AVI-103 SERIES



TECHNICAL DATA

Temp Range	5°C above ambient to 300°C
Temp Accuracy	± 0.2°C
Temp Uniformity	± 1°C
Supply	230V, AC

Introduction of AUTOCLAVE

LABORATORY PRECISION OVENS ARE USED FOR HEATING AND THERMAL CONVECTION PURPOSES. THE MAJOR FUNCTION OF THESE OVENS IS TO MAINTAIN THE UNIFORMITY OF TEMPERATURE.

These ovens are widely used across industries to test the resistance of manufactured products as well as their performance.

Avante makes laboratory precision oven with air circulation that is provided by a motorized blower fitted on the oven. The re-circulation of the air helps ensure homogeneous hot air and a matching temperature profile. The oven is constructed with a triple-walled construction and the unit is insulated with 3" high-grade glass wool.

The oven consists of highly user - friendly adjustable S.S rod mesh trays and has a single door fitted on heavy hinges.





CONCEPTION

The controlling system

The microprocessor autotunes PID temperature controller comes with a dual display of set values. The process value for precise control of temperature with PT 100 sensor is used.

Heating System

Has high-quality S.S. Tubular heating elements that are used on sidewalls to maintain uniform heating conditions within the chamber.

Air Recirculation

The motorised blower at the top creates a unique airflow system that helps maintain a uniform temperature within the chamber. The airflow ensures that there is a quick recovery after door openings.

STANDARD MODEL

This model has an S.S 304 interior with a mirror polish and mild steel duly powder-coated exterior

GMP MODEL

This model has an S.S 316 interior with a mirror polish and a stainless steel 304 exterior with a dull buff finish

SAFEGUARDING TRAITS

standby thermostat that cuts off heater supply in cases when there is an overshoot in temperature

TECHNICAL DATA			
Models	Capacity Liters	Internal Size H x W x D cm	Trays
AVI-103	43	35 x 35 x 35	2
AVI-103B	91	45 x 45 x 45	2
AVI-103C	122	60 x 45 x 45	3
AVI-103D	216	60 x 60 x 60	3
AVI-103E	324	90 x 60 x 60	4

S --- Standard Model

STANDARD MODEL

Inside S.S. 304 with mirror polish and Outside Mild Steel duly powder coated.

G --- GMP Model

GMP MODEL

Inside S.S.316 with mirror polish and Outside stainless steel 304 with dull buff finish.

Note: The Product design and specification are subject to change due to continuous Research and development



PRINCIPLE CHARACTERISTICS

Exclusively constructed stainless steel rod trays for even temperature distribution.

A single door, fitted on a heavy cast. Has chromium-plated hinges with spring, along with a roller style latch with an asbestos gasket to avoid potential heat loss.

DISCRETIONARY FEATURES

- A timer
- A data scanner with a sensor
- A safety digital temperature controller
- A CFR 21 Part 11 compliance software
- A data logger



Note: The design, color, specification, and models are subject to transformation due to ending research, development, and technological advances.

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