

Vacuum Oven V-65 / V-40 / V-30



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ADITYA Vacuum Oven V-65 is used for Vacuum drying, which is a mass transfer operation in which the moisture present in a substance, usually a wet solid, is removed by means of creating a vacuum. In chemical processing industries like food processing, pharmacology, agriculture, and textiles, drying is an essential operation to remove moisture. Vacuum drying is generally used for the drying of substances which are hygroscopic and heat sensitive, and is based on the principle of creating a vacuum to decrease the chamber pressure below the vapour pressure of the solvent, causing it to boil. With the help of vacuum pumps, the pressure is reduced around the substance to be dried. This decreases the boiling point of the solvent inside that product and thereby increases the rate of evaporation significantly. The result is a significantly increased drying rate of the product. The vacuum drying process is a batch operation performed at reduced pressures and lower relative humidity compared to ambient pressure, enabling faster drying.

ADITYA vacuum oven has achieved reduced power consumption through improved Air-tightness and insulation by using superior insulation materials and by changing both the door locking mechanism and the enclosure construction.

Air-tightness and insulation capacity have a significant impact not only on temperature control but also on pressure control. In addition, the enhanced air-tightness helps prevent a temperature rise in the surrounding area of the chamber.

TECHNICAL DATA	V - 65	V - 40	V - 30
Chamber Volume (L)	65	40	30
Vacuum Range (mbar)	1 to 1000	1 to 1000	1 to 1000
Nozzle Size (mm)	10	10	10
Temperature Range °C	Ambient to 200	Ambient to 200	Ambient to 200
Temperature Variation +/- °C	5	5	5
Dimension (W x D x H) Interior (mm)	405 x 405 x 405	320 x 320 x 350	300 x 300 x 320
Dimension (W x D x H) Exterior (mm)	780 x 560 x 600	590 x 470 x 680	560 x 410 x 650
No. of Shelves	3	3	3
Net Weight (kg.)	105	60	55
Electrical Supply 230V AC / 50Hz	6.1 A	6.1 A	6.1 A