LABORATORY OVEN

Code : G030



- The ALFA Laboratory Oven is engineered for precise thermal processing applications, including heating, drying, conditioning, aging, sterilizing, curing, and moisture content determination. Its design ensures uniform temperature distribution and energy efficiency, making it suitable for various laboratory environments.
- Constructed for robust daily use, the oven ensures uniform temperature distribution through forced convection, facilitated by a rear-mounted air circulation fan. The corrosion-resistant stainless steel internal chamber, surrounded by thick mineral wool insulation, optimizes thermal efficiency and safety. The powder-coated or stainless steel exterior adds durability to the oven.
- eaturing a full-width, front-loading door, the oven provides unobstructed access to the corrosion-resistant stainless steel internal chamber, facilitating easy loading and retrieval of samples. The reduced internal depth enhances operational convenience, allowing for efficient use of laboratory space.
- Equipped with a digital thermostat and indicator, the oven offers precise temperature control ranging from ambient to 250°C. The adaptive Proportional Integral Derivative (PID) controller maintains consistent temperatures, adhering to relevant standards. An overheat safety thermostat and circuit breaker are

integrated to protect both the user and the equipment, ensuring a safe working environment.

- Fitted with robust, industrial-grade hinges and ergonomically designed handles, ensuring smooth and secure door operation even under repeated and intensive use. The high-quality hinge mechanism maintains door alignment and sealing integrity over time, while the reinforced handles provide a comfortable and secure grip, enhancing user safety and ease of access in daily laboratory applications.
- The oven's construction includes thick mineral wool insulation between the stainless steel interior and the powder-coated or stainless steel exterior, optimizing energy efficiency. An exhaust hole facilitates humidity discharge and rapid cooling, while the rear-mounted air circulation fan ensures forced convection for uniform heat distribution.
- Maintenance is streamlined with accessible heating elements, circulating fans, and other internal components.
- Wire grid shelves promote homogeneous airflow, maintaining consistent temperatures throughout the chamber. Multiple shelf positions accommodate various sample sizes.
- Each unit is shipped with a 9-point factory calibration report, ensuring temperature uniformity and accuracy across the chamber in compliance with laboratory quality standards. Calibration is conducted under controlled conditions to guarantee reliable performance.
- Additionally, ALFA offers customization options to meet specific laboratory requirements.

STANDARDS

ASTM C127 • ASTM C136 • ASTM D558 • ASTM D559 • ASTM D560 • ASTM D698 • ASTM D1557 • ASTM D1559 • EN 932-5 • EN 1097-5 • BS 1377:1 • BS 1924:1

TECHNICAL SPECIFICATIONS

- Temperature Range: Ambient to 250°C
- **OMRON** Digital Thermostat with Adaptive PID Control
- Integrated safety thermostat to prevent overheating and protect samples and equipment
- Interior chamber: Stainless Steel

- Exterior: Powder Coated or Textured Stainless Steel
- Insulation: Thick mineral wool
- Airflow: Forced convection
- Power Supply: [220 - 240 V / 50 - 60 Hz] or [380 V / 50 - 60 Hz]

EQUIPPED WITH

- Digital Thermostat & Indicator
- Safety Overheat Thermostat
- Circuit Breaker
- Air Circulation Fan providing airflow
- Exhaust Hole for humidity discharge and fast cooling
- Robust, industrial-grade hinges
- Ergonomically designed handles to ensure reliability during frequent use

SUPPLIED WITH

- Wire Grid Shelves: 2 ea (Additional shelves can be ordered)
- 9-Points Factory Calibration Report

ORDERING INFORMATION

Item Name	Item Code
LABORATORY OVEN - 1000 Lt - Stainless Steel	G030J01KU
LABORATORY OVEN - 2000 Lt - Stainless Steel	G030J02KU
LABORATORY OVEN - 80 Lt - Stainless Steel	G030J080U

LABORATORY OVEN - 120 Lt - Stainless Steel	G030J120U
LABORATORY OVEN - 250 Lt - Stainless Steel	G030J250U
LABORATORY OVEN - 250 Lt (Double Door, Benchtop) - Stainless Steel	G030J252U
LABORATORY OVEN - 400 Lt - Stainless Steel	G030J400U
LABORATORY OVEN - 500 Lt - Stainless Steel	G030J500U
LABORATORY OVEN - 600 Lt - Stainless Steel	G030J600U
LABORATORY OVEN - 750 Lt - Stainless Steel	G030J750U
SPARE FAN for OVEN (All Models)	G030P001H
SHELF for LABORATORY OVEN - 80 Lt (All Models)	G030P002H
SHELF for LABORATORY OVEN - 120 Lt (All Models)	G030P003H
SHELF for LABORATORY OVEN - 250 Lt (All Models)	G030P004H
SHELF for LABORATORY OVEN - 250 Lt (Double Door, Benchtop) (All Models)	G030P005H
SHELF for LABORATORY OVEN - 400 Lt (All Models)	G030P006H
SHELF for LABORATORY OVEN - 500 Lt (All Models)	G030P007H
SHELF for LABORATORY OVEN - 600 Lt (All Models)	G030P008H
SHELF for LABORATORY OVEN - 750 Lt (All Models)	G030P009H
SHELF for LABORATORY OVEN - 1000 Lt (All Models)	G030P010H
TROLLEY for LABORATORY OVEN - 2000 Lt (All Models)	G030P011H
HEATING ELEMENT for OVEN (Circular) - 750 W	G030P012H
HEATING ELEMENT for OVEN (Circular) - 1500 W	G030P013H
HEATING ELEMENT for OVEN (Circular) - 2200 W	G030P014H
HEATING ELEMENT for OVEN (Flat, 600x400 mm) - 600 W	G030P015H
HEATING ELEMENT for OVEN (Flat, 150x400 mm) - 400 W	G030P016H
CASING for OVEN HEATING ELEMENT (Hexagon)	G030P017H

SPARE HANDLE for OVEN (All Single-Door Models)	G030P018H
SPARE SOLID STATE RELAY (SSR) for OVEN	G030P019H
TEMPERATURE SENSOR (J-Type Thermocouple)	G030P020H
HEATING ELEMENT for OVEN (Flat, 450x450 mm) - 700 W	G030P021H
HEATING ELEMENT for OVEN (Flat, 600x300 mm) - 700 W	G030P022H
HEATING ELEMENT for OVEN (Flat, 600x150 mm) - 500 W	G030P023H
SPARE SAFETY THERMOSTAT for OVEN	G030P024H
HEATING ELEMENT for OVEN (Flat, 500x400 mm) - 500 W	G030P025H
DOOR SEAL for G030 (250 lt - Single Door)	G030P026H
HEATING ELEMENT for OVEN (Flat, 400x400 mm) - 500 W	G030P027H
DOOR SEAL for G030 (120 lt)	G030P028H
TROLLEY for LABORATORY OVEN - 4600 Lt (All Models)	G030P029H
TIMER PROGRAMMABLE CONTROLLER UPGRADE for G030	G030P030H
DOOR HINGE for OVENS	G030P031H
SPECIAL OVEN - Ø 30 x 300 cm	G030X001V
LABORATORY OVEN - 1000 Lt	G030X01KU
LABORATORY OVEN - 2000 Lt	G030X02KU
LABORATORY OVEN - 4600 Lt	G030X04KV
LABORATORY OVEN - 55 Lt	G030X055U
LABORATORY OVEN - 80 Lt	G030X080U
LABORATORY OVEN - 120 Lt	G030X120U
LABORATORY OVEN - 250 Lt	G030X250U
LABORATORY OVEN - 250 Lt (Double Door, Benchtop)	G030X252U
LABORATORY OVEN - 400 Lt	G030X400U

LABORATORY OVEN - 500 Lt	G030X500U
LABORATORY OVEN - 500 Lt (Double Door)	G030X502U
LABORATORY OVEN - 600 Lt	G030X600U
LABORATORY OVEN - 750 Lt	G030X750U

OTHER PHOTOS





