



IGENE LABSERVE

Innovative • Interactive • Intuitive

HOT AIR OVENS



Address: 16/2 |Ground Floor|
Ashok Nagar| New Delhi-110018
Office: - +91-11-79613060
Mob: - 9971039507
Email: info@igenels.com
Web: www.igenels.com



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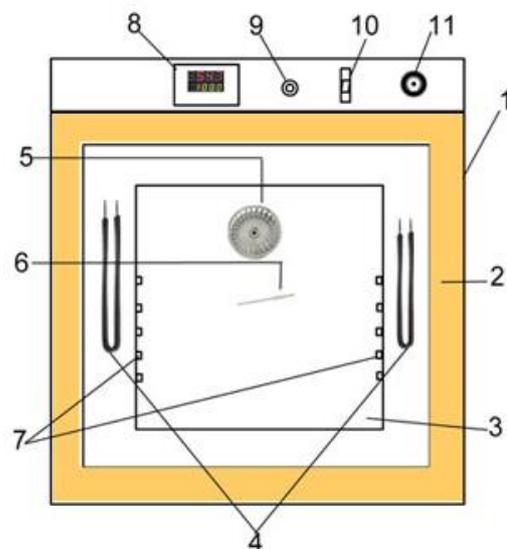
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We customize ovens in various temperature ranges, material of construction and chamber dimensions. Maximum operating temperature range of these ovens are **200°C, 250°C and 300°C**, which is controlled through microprocessor based PID controller, which displays both set value (SV) and process value (PV) and plays important role in temperature control. Forced air circulation is maintained using branded motor driven blower system. For heating, we use ceramic bead heating elements or tubular air heaters for high temperature. Each unit is fitted with over temperature protection device (safety thermostat), which keeps your oven safe in case of controller failure.

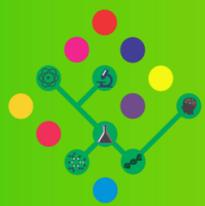
Our hot air oven are having attractive design, rugged construction and easy to clean surface; therefore, internal chamber of our ovens is made of thick gauge of stainless steel (SS 304 / SS 316). Corners are such designed that cleaning becomes an easy job for operator. Shelves are made of stainless steel wire mesh cable; these are removable in order to adjust the height level. Depending upon size of internal chamber quantity of shelves may vary from 2 to 7 or more. External cabinet is made of either powder coated mild steel, GI sheet or stainless steel as required. For easy mobility of large ovens, caster wheels with brake are fitted at the bottom.

We offer several optional accessories to fit in your hot air oven; such as, explosion proof heater, digital timer, PLC based HMI controller, RS485 computer interface, 21 CFR software, data logger and circular chart recorder, HEPA filter air inlet etc.

- ❖ External cabinet
- ❖ Glass wool insulation
- ❖ Inner chamber
- ❖ Tubular air heaters
- ❖ Motor driven blower
- ❖ Temperature sensor
- ❖ Tray slots
- ❖ PID temperature controller
- ❖ Load indicator
- ❖ Mains on/off switch
- ❖ Safety thermostat



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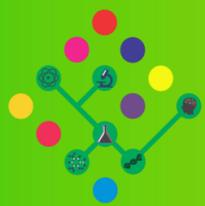
FEATURES & BENEFITS

- 50°C to 250°C temperature
- Uniform air circulation across chamber
- Digital temperature controller cum indicator
- Excellent uniformity at high temperature
- Stainless steel 304 grade inner chamber
- Corrosion resistant exterior
- Fume ventilation points on both sides
- Stainless steel cable trays
- Over temperature protection.

TECHNICAL SPECIFICATIONS

Temperature range	Ambient +5°C to 250°C (Optional 300°C)
Temperature accuracy	±1°C
Temperature sensor	PT100
Temperature controller	Microprocessor PID controller Display of SV & PV
Construction	Double walled
Inner chamber	Stainless steel Mild steel 304
Exterior	powder coated
Insulation	Glass Wool
Shelves	SS wire mesh cable trays (removable)
Door	Insulated solid door with clamp
Door gasket	Synthetic rubber gasket
Air circulation	Motor driven blower assembly
Vent port	1 or 2 depending upon chamber size
Temperature variation and readability/set ability	± 5°C
Safety	Over temperature protection
Circulation	Aero dynamic internal design for achieving horizontal air circulation





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Optional

Up to 250°C and 300°C, Perforated inner walls
Pass through (two side doors)
Access ports for sensors & data monitoring
Digital timer 99 hours 99 minutes, Fan speed controller
Programmable controller for ram & soak
Toughened glass window, Stainless steel exterior
(GMP model)
RS232 / RS485 interface, Data logger with USB interface
HMI & PLC automation, Caster wheels with lock, U Shaped Nichrome Air Heater

ORDERING INFORMATION

Model No.	Size (Inch) (LDH)	Capacity (Litres)
IG-28HAO	12" X 12" X 12"	28 L
IG-45HAO	14" X 14" X 14"	45 L
IG-95HAO	18" X 18" X 18"	95 L
IG-125HAO	18" X 18" X 24"	125 L
IG-162HAO	24" X 18" X 24"	160 L
IG-225HAO	24" X 24" X 24"	216 L
IG-250HAO	18" X 24" X 36"	250 L
IG-340HAO	24" X 24" X 36"	340 L
IG-500HAO	28" X 28" X 40"	490 L
IG- 540HAO	60" x 75" x 120"	540 L
IG-768HAO	31.5" X 31.5" X 47.2"	768 L
IG-1000HAO	39.4" X 39.4" X 39.4"	1000 L
IG-1600HAO	36" X 47.2" X 59"	1600 L

Note: We also manufacturer large size ovens (Walk-in oven)

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