



LABORATORY
OVENS
High Performance and Reliable

Vacuum Oven

LVO Series

Vacuum Ovens have gained wide acceptance for its remarkable performance in various Hi-tech laboratories, research, development centers, industrial houses, medical centers, hospitals and educational institutes. It has a double walled construction made of Stainless Steel. LVO Series vacuum ovens are also supplied with vacuum gauge, vacuum cock and toughened glass window. It regulates perfectly and conveniently at maximum temperature of 250°C.

FEATURES:

- Greater accuracy & uniformity.
- Heat transduct from heater through aluminum shelve.
- Digital PID controller with $\pm 0.1^{\circ}\text{C}$ resolution control.
- Over temperature protection, alarm, auto-tuning & timer.
- One controller with vaccum gauge & 3-way valve.
- One touch door catch.
- 15mm thick tempered safety glass window with protection sheild.
- Easy to use sliding aluminum shelve.



TECHNICAL SPECIFICATIONS AND ORDERING INFORMATION

Model No.	LVO-60T	
Chamber Volume (Capacity) (L)	59	
Temperature	Heating Type	Incolony sheath heat-conduction through aluminum shelf and chamber
	Range ($^{\circ}\text{C}$)	Ambient $\pm 10\text{--}250$
	Accuracy	$\pm 2.0^{\circ}\text{C}$ at 120°C
	Uniformity	$\pm 3.0^{\circ}\text{C}$ at 120°C
Vaccum (mm of Hg)	10~760	
Heater (W x EA)	800 x 2	
Control	Main Controller	Digital PID controller with timer and auto-tuning
	Wait-off Timer	mm:ss / hh:mm / Continuous selectable
	Sensor (Ω)	Pt 100
Safety Device	Temperature	Hydraulic over temperature protection safety device
	Electrical	Electrical leakage breaker
	Limit Switch	Heater output off when door open
Dimensions (mm)	Inner (W x D x H)	400 x 420 x 350
	Outer (W x D x H)	610 x 580 x 670
	Window (W x H)	317 x 257
Shelves	Type	3.0 mm thick aluminium shelf
	No. of Shelves Included	2
Catalog No.	08150101	

Clean Air Oven

LCO Series

LCO Series of Clean Air Oven is provided with high temperature range. They are more clean and productive having excellent temperature uniformity. They also shows a long holding period for receiving combustion products directly from a burner and mixing them with process exhaust air from nozzles applying heated air. Clean air is obtained which is free of any toxic pollutant.



FEATURES:

- ☒ HEPA filtration system.
- ☒ Precision temperature control upto a maximum temperature of 250°C.
- ☒ Digital PID Controller enables $\pm 0.1^\circ\text{C}$ resolution and control.
- ☒ Over temperature protection, alarm, auto-tuning, temperature adjustment.
- ☒ Filtered air blow back to front circulates laminar flow.
- ☒ Two fan heater and unique design for homogeneous temperature from top to bottom.

TECHNICAL SPECIFICATIONS AND ORDERING INFORMATION

Model No.	LCO-150T		LCO-300T		LCO-1200T	
Chamber Volume (Capacity) (L)	150		300		1200	
Temperature	Heating Type	Forced convection				
	Range ($^\circ\text{C}$)	Ambient $\pm 10\sim 250$				
	Accuracy	$\pm 2.0^\circ\text{C}$ at 120°C (150 Litres volume)				
	Uniformity	$\pm 1.0^\circ\text{C}$ at 120°C (150 Litres volume)				
Control	Main Controller	Digital PID programmable controller 10 segment 999 cycle or continuous				
	Wait-off Timer	mm:ss / hh:mm / Continuous selectable				
	Sensor (Ω)	Pt 100				
Safety Device	Temperature	Hydraulic over temperature protection safety device				
	Electrical	Electrical leakage breaker				
Dimensions (mm)	Inner (WxDxH)	600 x 500 x 500	600 x 500 x 1000	1000 x 1000 x 1200		
	Outer (WxDxH)	810 x 980 x 1240	810 x 980 x 1640	1210 x 1485 x 1940		
HEPA Filter	High temp. class 100 HEPA filter $0.3\ \mu\text{m}$, particle removal 99.97%					
Material	Internal	Stainless steel polished (SUS304)				
	External	Steel with epoxy powder coating				
Insulation	Mineral wool 50 mm/w woven aluminium barrier					
Door Gasket	Temperature resistant foamed silicone rubber					
Catalog No.	08150201		08150202		08150203	

Upright Oven

LUO Series

LUO Series of Upright Oven has the prominent feature of holding more capacity as compared to other ovens. The aerodynamic design for air circulation is provided at the side wall of the heating chamber. Due to uniform air circulation the temperature is accurately maintained throughout.

FEATURES:

- ☒ Precise temperature control with accuracy and uniformity.
- ☒ Digital PID Controller enables $\pm 0.1^{\circ}\text{C}$ resolution.
- ☒ Equipped with wait-off timer, alarm and auto-tuning and inbuilt temperature calibration function.
- ☒ Superb temperature uniformity.
- ☒ Two fans and heaters provided on the upper and lower part eliminate temperature difference from top to bottom.
- ☒ Aerodynamic design to achieve superior temperature uniformity.



TECHNICAL SPECIFICATIONS AND ORDERING INFORMATION

Model No.	LUO-250T	LUO-400T	LUO-700T	
Chamber Volume (Capacity) (L)	250	372	655	
Temperature	Heating Type			
	Range ($^{\circ}\text{C}$)			
	Accuracy			
	Uniformity			
	Heat Up Time To 120°C (min)			
Control	Main Controller			
	Wait-off Timer			
	Sensor (Ω)			
Safety Device	Temperature			
	Electrical			
	Limit Switch			
Dimensions (mm)	Inner (W x D x H)	500 x 500 x 1000	610 x 610 x 1000	710 x 710 x 1300
	Outer (W x D x H)	900 x 650 x 1360	1000 x 760 x 1360	1100 x 860 x 1660
	Clearance (W x D x H)	905 x 660 x 1370	1005 x 770 x 1370	1105 x 870 x 1670
	Window (W x H)	150 x 450		
Heater (KW x EA)	1.0 x 2	1.5 x 2	2.0 x 2	
Shelves	Type			
	Adjustable Height			
	No. of Shelves Included	3	4	6
	Maximum No. of Shelves	25		30
No. of Ventilation Damper	1	2		
Catalog No.	08150301	08150302	08150303	

Natural Convection Oven

LNO Series

LNO Series of Natural Convection Oven are reliable and appropriate ovens with maximum accuracy and uniformity of temperature. Convection ovens use convective heat transfer, whether the energy source is gas, electric, or steam. Convection is the indirect transfer of thermal energy by the circulation of a heated carrier, such as air. The greater the air velocity and the turbulence in a convection oven, the faster is the transfer of heat.



FEATURES:

- ☒ Precise temperature control.
- ☒ Maximum accuracy and greater uniformity.
- ☒ Digital PID Controller enables $\pm 0.1^{\circ}\text{C}$ resolution.
- ☒ Wait-off timer, alarm, auto-tuning and inbuilt temperature calibration system.
- ☒ Seamless round cornered edges of chamber prevents leakage.
- ☒ Easily cleaned due to round cornered edges.

TECHNICAL SPECIFICATIONS AND ORDERING INFORMATION

Model No.		LNO-050	LNO-100	LNO-150	LNO-250
Chamber Volume (Capacity) (L)		50	96	150	250
Temperature	Heating Type	Natural convection			
	Range ($^{\circ}\text{C}$)	Ambient $\pm 10\sim 250$			
	Accuracy	$\pm 1^{\circ}\text{C}$ at 120°C			
	Uniformity	$\pm 2^{\circ}\text{C}$ at 120°C			
	Heat Up time to 120°C (min)	10	12	15	20
Control	Main Controller	Digital PID controller with timer and auto-tuning			
	Wait-off Timer	mm:ss / hh:mm / Continuous selectable			
	Sensor (Ω)	Pt 100			
Safety Device	Temperature	Hydraulic over temperature protection safety device			
	Electrical	Electrical leakage breaker			
	Limit Switch	Heater output off when door open			
Dimensions (mm)	Inner (W x D x H)	400 x 300 x 600	400 x 400 x 600	500 x 600 x 500	600 x 600 x 700
	Outer (W x D x H)	765 x 450 x 860	765 x 550 x 860	865 x 650 x 860	965 x 650 x 955
	Clearance (W x D x H)	770 x 460 x 870	770 x 560 x 870	870 x 660 x 870	970 x 660 x 1005
	Window (W x H)	145 x 290	150 x 360	150 x 410	150 x 450
Heater (KW)		1.2	1.5	2.0	2.5
Shelves	Type	Wire shelves with chrome plated			
	No. of Shelves		2		3
	Max. No. of Shelves	12	16	20	24
No. of Ventilation Damper		1		2	
Catalog No.		08150401	08150402	08150403	08150404

Forced Convection Oven

LFO Series

Forced Convection Oven of LFO Series is more accurate, convenient and flexible oven for fast drying with homogenous heating throughout the chamber.

FEATURES:

- ☒ In colony sheath heater surrounds blower to achieve fast and homogenous heat dissipation throughout the chamber.
- ☒ Seamless round cornered edge of chamber prevents leakage.
- ☒ Double layered transparent tempered safety glass window.
- ☒ High quality mineral wool insulation with woven aluminium barrier.
- ☒ High efficiency Air Flow Layer Insulation to keep outer body cool.



TECHNICAL SPECIFICATIONS AND ORDERING INFORMATION

Model No.	LFO-100	LFO-150	LFO-250	
Chamber Volume (Capacity) (L)	96	150	250	
Temperature	Heating Type Forced convection			
	Range (°C) Ambient \pm 10~250			
	Accuracy \pm 0.2°C at 120°C			
	Uniformity \pm 1°C at 120°C			
Control	Heat Up Time to 120°C (min)	15	20	25
	Main Controller	Digital PID controller with timer and auto-tuning		
	Wait-off Timer	mm:ss / hh:mm / Continuous selectable		
	Sensor (Ω)	Pt 100		
Safety Device	Temperature	Hydraulic over temperature protection safety device		
	Electrical	Electrical leakage breaker		
	Limit Switch	Heater and fan output off when door open		
Dimensions (mm)	Inner (W x D x H)	400 x 400 x 600	500 x 500 x 600	600 x 600 x 700
	Outer (W x D x H)	790 x 550 x 860	890 x 650 x 860	990 x 750 x 955
	Clearance (W x D x H)	795 x 560 x 870	895 x 660 x 870	995 x 760 x 1005
	Window (W x H)	150 x 360	150 x 410	150 x 450
Material	Internal	Stainless steel 0.8T polished (SUS 304)		
	External	Steel 1T with epoxy powder coating		
	Door Gasket	Mineral wool 50 mm/w woven aluminium barrier		
	Insulation	Temperature resistant foamed silicone rubber		
	Window	Double layered tempered safety Glass 5T		
Heater (KW)	1.5	1.7	2.5	
Shelves	Type	Wire shelves with chrome plated		
	Adjustable Height	25 mm increment		
	No. of Shelves Included	2		3
	Maximum No. of Shelves	16	20	24
No. of Ventilation Damper	1			
Net Weight (Kg)	56	63	72	
Shipping Weight (Kg)	66	73	82	
Catalog No.	08150501	08150502	08150503	

Soil Dry Oven

LSO Series

The aerodynamic design of LSO Series of Soil Drying Oven is ideal for large capacity drying of soil. One of the most essential use of soil dry oven is in research based environmental science labs where it is utilized for drying the soil before performing any experiments.



FEATURES:

- ☒ Precise temperature control upto 120°C.
- ☒ Digital PID Controller enables $\pm 0.1^\circ\text{C}$ resolution.
- ☒ Ideal for range capacity drying.
- ☒ Aerodynamic design, achieves superior temperature uniformity.
- ☒ Two fan and heaters provided on the upper & lower part of the chamber, eliminates temperature difference from top to bottom.
- ☒ Two chambers are independently controlled by separate system for continuous batch processing.

TECHNICAL SPECIFICATIONS AND ORDERING INFORMATION

Model No.		LSO-400W	LSO-600W
Chamber Volume (Capacity) (L)		432 x 2 Chambers	612 x 2 Chambers
Temperature	Heating Type	Forced convection dual fan heater for each chamber	
	Range ($^\circ\text{C}$)	Ambient $\pm 10\sim 120$	
	Accuracy	$\pm 1.0^\circ\text{C}$ at 60°C (150 Litres volume)	
	Uniformity	$\pm 3.0^\circ\text{C}$ at 60°C (150 Litres volume)	
	Heat Up Time to 120°C (min)	20	30
Control	Main Controller	Digital PID controller with timer and auto-tuning	
	Wait-off Timer	mm:ss / hh:mm / Continuous selectable	
	Sensor (Ω)	Pt 100	
Safety Device	Temperature	Hydraulic over protection temperature protection safety device	
	Electrical	Electrical leakage breaker	
	Limit Switch	Heater output off when door open	
Dimensions (mm)	Inner (W x D x H)	600 x 600 x 1200 x 2 Chambers	600 x 850 x 1200 x 2 Chambers
	Outer (W x D x H)	1980 x 760 x 1660	1980 x 1000 x 1660
	Window	None	
Heater (KW x EA)		1.5 x 4	2.0 x 4
Shelves	Type	Wire shelves with chrome plated	
	No. of Shelves Included	8	12
	Maximum No. of Shelves	25	30
No. of Ventilation Damper		2	
Catalog No.		08150601	08150602

Heavy Duty Industrial Oven

LHO Series

LHO Series of durable and temperature resistant Heavy Duty Industrial Oven are specially designed for industrial use. Bulk material drying in industrial protocols has resulted in introducing heavy duty industrial oven. Temperature controlling system has made it easier for industrial usage.



FEATURES:

- ☒ Rugged and durable design.
- ☒ Digital PID Controller enables $\pm 0.1^{\circ}\text{C}$ resolution.
- ☒ Precise temperature control upto a maximum temperature of 250°C .
- ☒ Over temperature protection, alarm, auto-tuning & inbuilt temperature calibration system.

TECHNICAL SPECIFICATIONS AND ORDERING INFORMATION

Model No.		LHO-400T	LHO-960T	LHO-1400T
Chamber Volume (Capacity) (L)		400	960	1400
Temperature	Heating Type	Forced convection		
	Range ($^{\circ}\text{C}$)	Ambient $\pm 10\sim 250$		
Control	Accuracy	$\pm 0.5^{\circ}\text{C}$ at 120°C (400 Litres volume)		
	Uniformity	$\pm 3.0^{\circ}\text{C}$ at 120°C (400 Litres volume)		
	Main Controller	Digital PID controller		
	Wait-off Timer	mm:ss / hh:mm / Continuous selectable		
Safety Device	Sensor (Ω)	Pt 100		
	Temperature	Hydraulic temperature protection safety device		
Dimensions	Electrical	Electrical leakage breaker		
	Inner (W x D x H)	650 x 600 x 1050	1000 x 800 x 1200	1100 x 1050 x 1200
	Outer (W x D x H)	810 x 850 x 1650	1210 x 1050 x 1940	1310 x 1300 x 1940
Material	Internal	Stainless steel polished (SUS304)		
	External	Steel with epoxy powder coating		
Insulation	Insulation	Mineral wool 50 mm/w woven aluminium barrier		
	Door Gasket	Temperature resistant foamed silicone rubber		
Catalog No.		08150701	08150702	08150703



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