

Advantage-Lab's laboratory ovens are indented for thermal treatment of materials up to 300°C. These electric ovens are designed for thermal treatment such as drying, heating, thermal testing, and aging in an air- flow environment. Forced air convection allows a homogenous temperature distribution during all process, which ensures optimal results.

CONSTRUCTION

- ✓ Control panel on under part,
- ✓ Ventilation motor on back side,
- ✓ Inside casing in 304 stainless steel,
- ✓ Perforated shelves, adjustable position,
- ✓ Adjustable ventilation hole,
- ✓ Outside casing in metal sheet, powder painting grey RAL7035 ,
- ✓ Insulation rock wool (complete lack of asbestos),
- ✓ Door opening on the right, inner door in stainless steel, silicon joint.

Technical data	Dimension	AL01-30-100 Drying Oven 20 liter	AL01-31-100 Drying Oven 60 liter	AL01-32-100 Drying Oven 120 liter	AL01-33-100 Drying Oven 220 liter	AL01-34-100 Drying Oven 420 liter
Useful volume	Liter	20	60	120	220	420
Exploitation class (EN60529)	-	IP20	IP20	IP20	IP20	IP20
Rated power not more than,	kW	1	2	2,2	4	6,2
Rated supply voltage,	V	230	230	230	230	400
Rated frequency,	Hz	50	50	50	50	50
Number of phases	-	1	1	1	1	3
Continuous operating temperature	°C	T _{amb} +10 -300	T _{amb} +10 -300	T _{amb} +10 -300	T _{amb} +10 -300	T _{amb} +10 -300
Maximum temperature	°C	300	300	300	300	300
Working chamber material	-	St. steel	St. steel	St. steel	St. steel	St. steel
Working chamber surroundings	-	air (with hot air fan, adjustable)	air (with hot air fan, adjustable)	air (with hot air fan, adjustable)	air (with hot air fan, adjustable)	air (with hot air fan, adjustable)
Airflow		Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Change of air in the camber at 300°C	Times/h	21	16	9	6	-
Shelves number (standard/maximum)		2/5	3/7	3/7	3/7	3/7
Non concentrated load of one shelf	Kg	10	10	15	15	15
Total limiting load	Kg	20	30	40	50	50
Maximum heating- up time (without charge),	Min.	34	34	45	30	30
Temperature stability in working chamber at rated temperature in thermal steady state without charge not more than	± °C	±0,3	±0,3	±0,3	±0,3	±0,3
Temperature uniformity in working space at rated temperature in thermal steady state without charge not more than	at 100°C	±1,1	±0,9	±0,8	±1,3	±2,5
	at 200°C	±1,7	±1,4	±1,5	±2	±5,3
	at 300°C	±2,3	±2,0	±1,9	±2,5	±7,4
Working chamber dimensions:						
width	mm	240	380	550	730	1000
depth	mm	280	380	400	500	500
height	mm	340	420	580	620	860
External dimensions:						
width	mm	460	600	750	930	1200
depth	mm	680	760	780	880	930
height	mm	640	720	880	915	1200
Mass (Netto)	kg	34	50	70	102	155

CONTROL:

- ✓ Temperature measurement by thermocouple type "K".
- ✓ PID electronic regulator, double digital display reference temperature and measured temperature.
Products are equipped with high-precision digital microprocessor Omron or Eurotherm temperature controllers fitted with self-tuning and manual PID settings. A wide range of devices allows selecting the most appropriate controller for your process.
- ✓ SSR control unit.

CUSTOMS CODE:

- ✓ Customs tariff TARIC – 8514108090

SUPPLIED DOCUMENTS:

- ✓ Temperature controller instructions,
- ✓ Electric diagram.
- ✓ CE declaration.

OPTIONS:

- ✓ Buzzer
- ✓ Timer
- ✓ OTP (over temperature protection)
- ✓ Omron E5CC-T (programmable)
- ✓ Eurotherm 3216 (non-programmable)
- ✓ Eurotherm 3208 (programmable)
- ✓ Interface RS 232 or 485
- ✓ PC connection and computer software 12V.1
- ✓ Metal tray (box) for samples treatment
- ✓ Fan speed controller

GUARANTEE:

- ✓ 2 years

PACKING:

- ✓ Wooden Box
- ✓ CE marked.

