

Drying Oven (Natural Convection)

Description

FIO series drying oven is an oven and incubator double used device. With a switch, it can exchange the heating elements inside, to define it is used as an oven or incubator. It is perfect choice for some small labs which have limited space.

Features

1. High quality material:

Mirror stainless steel inner chamber and shelf, convenient for cleaning and disinfection, outer plate is coated with Akzo powder. has elegant appearance and good corrosion resistant.

2. Good temperature uniformity:

30L to 125L model are with vertical double ducts, 230L model is with special designed base duct. to ensure all size chamber temperature uniformity within $\pm 2.5\%$.

3. Heat isolated casing and door:

The oven sides, top and door are all filled with heat-insulating material (not including glass), to ensure the operators are not scalded.

4. Low noise:

FIO double function oven adopt high quality motor and sound insulation material to protect lab environment.

5. Speed adjusting fan (Model L):

Operators can adjust the motor speed to achieve the most ideal experimental results.

6. Independent temperature limiter (Model L)

L type oven add a independent digital limiter, double guarantee the experiment will not fail because of over temperature.



Specifications

Model		FIO-30D	FIO-45D	FIO-65D	FIO-85D	FIO-125D	FIO-230D
		FIO-30L	FIO-45L	FIO-65L	FIO-85L	FIO-125L	FIO-230L
Air circulation type		forced convection					
Performance	temp. range	culturing: RT+10~80°C : drying: RT+80~250°C					
	temp. resolution	0.1 °C					
	temp. fluctuation	culturing: $\pm 0.5^\circ\text{C}$, drying: $\pm 1^\circ\text{C}$					
	temp. uniformity	culturing: $\pm 1\%$: drying: $\pm 1.5\%$					
Structure	chamber material	stainless steel					
	shell material	cold rolled steel, powder coating					
	thermal insulation	aluminium silicat fiber					
	heating device	stainless steel					nickel-chromium
	rated power (culturing)	0.3KW	0.3KW	0.4KW	0.5KW	0.6KW	0.7KW
	rated power (drying)	0.8KW	1.2KW	1.6KW	1.8KW	2.3KW	3.0KW
vent		inner diameter $\varnothing 28\text{mm} \times 1$, top					
Controller	temp. control	fuzzy PID control					
	temp. display	D: 4 digital LED display L: LCD display					
	timer	0-9999 minutes					
	sensor	Pt100					
Safety device		Over-temperature alarm: independent limiter (L model)					
Specification	inner (W*D*H) / mm	310*310*310	350*350*350	400*360*450	450*450*450	500*450*550	600*500*750
	exterior (W*D*H) / mm	428*500*723	468*540*763	518*550*863	568*640*863	618*640*963	737*700*1266
	packing (W*D*H) / mm	560*560*830	600*600*880	640*605*980	690*695*985	945*700*1085	900*757*1380
	capacity	30L	45L	65L	85L	125L	330L
	shelf load-bearing	15KG					
	shelf number	2 (standard)					
	voltage	AC220V / 3.6A	AC220V / 5.5A	AC220V / 7.2A	AC220V / 8.2A	AC220V / 10.5A	AC22V / 13.6A
	N.W / G.W (kg)	33/37	37/43	44/49	50/56	60/66	84/100
Optional configuration		Shelf: RS 485 (L model): USB (L model): Printer (L model): SMS alarm (L model)					