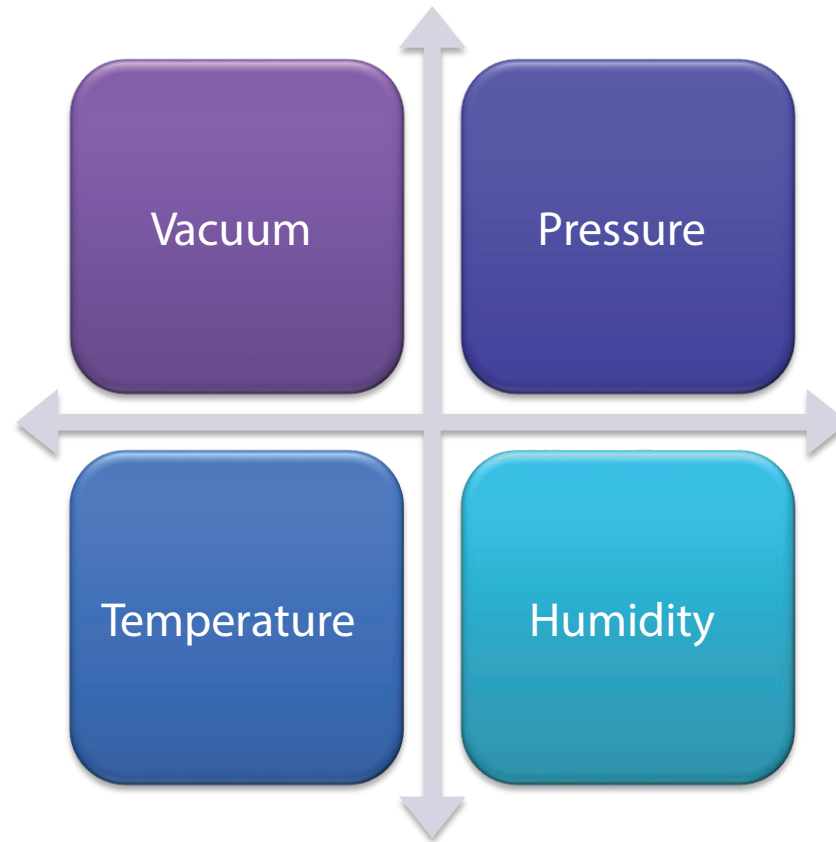




IREA TECH



- Strengths of IREA TECH -

- 1 ISO 9001, 14001 – guarantees high quality
- 2 Order-based & Standardized products
(size, temperature, pressure, vacuum, or power conditions)
- 3 Great and reliable durability
- 4 Various types of safety devices
- 5 Quick and RAPID customer service
- 6 A LOT OF Experience

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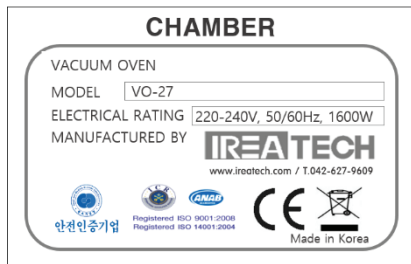
- Vacuum Oven -

USAGE :

Food, medical, and pharmaceutical samples
Heat-treatment of chemical, semiconductors,
and other electronic components



Desktop type



Model		VO - 27	VO - 64	VO - 125
Chamber Volume(ℓ)		27L	64L	125L
Temp.	Range	45~250		
	Accuracy	±5 at 250		
	Controller	Digital PID control system		
	Stability	±2.0		
	Heat up Time	100 within 100min at empty		
Vacuum	Range	0~760Torr analogue gauge (DIGITAL OPTION)		
	degree	About 0.1torr		
Material	Interior	Stainless steel		
	Shelves	Aluminum, 2 ea		
	Insulation	Ceramic wool		
	Inner glass	Tempered safety glass, 15 mm		
Dimension (W×D×H) (mm)	Internal	300(W) X 300(D) X 300(H)		
	External	600(W) X 450(D) X 550(H)		
Power		220V /1P/ 60 Hz		220V, 380V 3P



Integral type

Vacuumpump

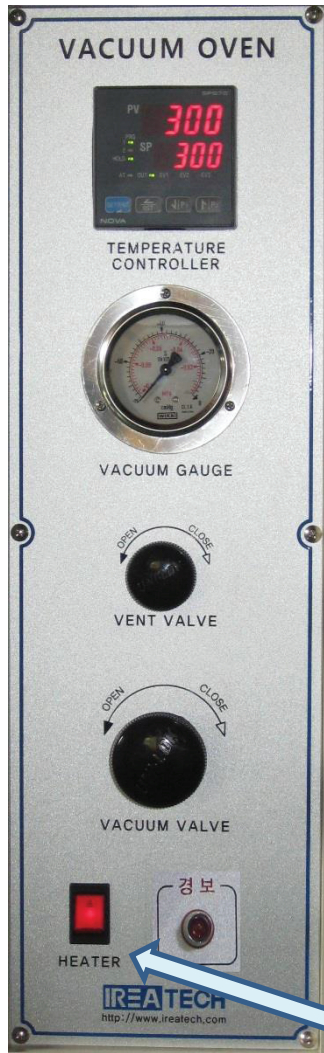
- Pumping speed: 50~1800L /min
- 220V or 380V, 1P/3P



Cold Trap

- Trapping Quantity (2L / 20L)
- Temp. up to -40°C & -70°C
- Useful in moisture removal
- Defrost -> Drain





Temperature Controller

Vacuum Gauge
(Analogue & Digital)

Vent Valve (Manual)

Vacuum Valve (Manual)

alarm

Heater ON/OFF



Oil Mist Trap
(Filter)



Fan

Over Temp. Controller
(EGO)

Main Power



Aluminum Shelves
- consistent temp. uniformity!



Silicone O - ring
-> outstanding vacuum degree!

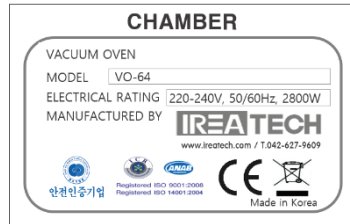


Analogue gauge
- Up to 0.1 torr



Digital shim gauge
- Measures 1000 ~ 1.0E -3Torr

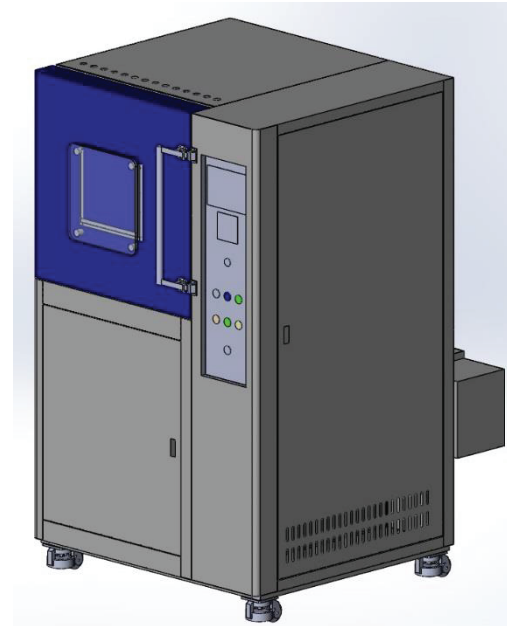
Other types



Chemical
sample - testing



Automobile
components



Semiconductors

Autoclave

(Vertical Type)



AC-48	AC-63	AC-80	AC-105
48L	63L	80L	105L
105 ~ 130 (121)			
DIGITAL AUTO TUNING PID CONTROLLER			
PRESSURE RANGE : 0~0.3 MPa (0~3 BAR)			
300Ø X 600H	350Ø X 600H	400Ø X 660H	450Ø X 660H
NO SHELVES (NEGOTIABLE)			
110V /220V/380V, 3P, 50/60Hz			

- micro -organic, glass, metal, laboratory materials and equipment

- Compact design & PID controller

- Micro -controlling method for safety and reliability

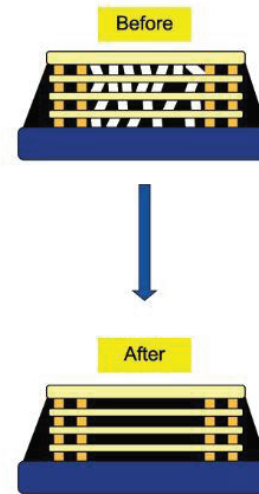
AUTOCLAVE(HORIZONTAL TYPE)

AC - 100H	AC - 250H	AC - 500H	AC - 1000H
100L	250L	500L	1000L
105 ~ 130 (121)			
DIGITAL AUTO TUNING PID CONTROLLER			
PRESSURE RANGE : 0~0.3 MPa (0~3 BAR)			
400Ø X 600H	650Ø X 600H	650Ø X 1200H	1000Ø X 1200H
NO SHELVES (NEGOTIABLE)			
110V /220V/380V, 3P, 50/60Hz			

- For large quantity – Used in Production Line
- micro-organic, glass, metal, laboratory materials & equipment
- Compact design & Touch panel controller
- Micro-controlling method for safety and reliability



For touch panels, LCD, semiconductors,
mobile phones, films, etc.



Automatic system

Great quality

Outstanding Sealing

➔ adhesive die bonding

➔ Heating -treatment (glass surface)

➔ removing tiny bubbles
(lamination)

➔ Stress -relief treatment (glass)

CONVECTION OVEN



50~250



High -Temp. Oven: ~700



Two-Chamber Oven

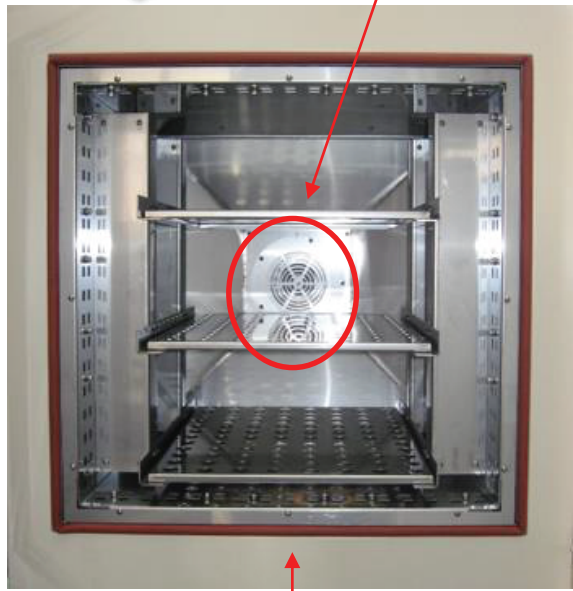




Model		FO-80A	FO-150A	FO-216A
Chamber Volume(ℓ)		80	150	216
Temperature	Range	50 °C ~ 250 °C		
	Stability	± 1.0°C		
	Control	± 1.0°C		
Sensor		Pt 100Ω		
Timer		99Hr 59 min		
Dimension (W × D × H, mm)	In	450×400×450	550×460×600	600×600×600
	Ex	630×700×900	730×750×980	800×850×1200
Power		220V, 380V 1P/3P 50/60Hz		

Model		HFO-50	HFO-150	HFO-216
Chamber Volume(ℓ)		50	150	216
Temperature	Range	50 °C ~ 400 °C (~700 °C, option)		
	Stability	± 1.0°C		
	Control	± 1.0°C		
Sensor		Pt 100Ω		
Timer		99Hr 59 min		
Dimension (W × D × H, mm)	In	350×350×400	450×450×450	600×600×600
	Ex	550×600×1000	650×700×1050	800×850×1200
Power		220V, 380V 1P/3P 50/60Hz		

Fan -> air circulating system
(excellent temp. distribution)



Door gasket : Silicone Rubber



Programmable controller
(different channel control)



- (1) Temp Controller
- (2) Over Temp Limit
- (3) EM-STOP
- (4) Alarm Buzzer
- (5) RESET
- (6) POWER OFF
- (7) POWER ON

Safety Device
(Emergency Stop, Alarm, OTL)

Temperature-Humidity Chamber (TH series)



Chamber volume	liters	120/230/408/800/1000
Controller		color touch screen type controller
Temperature range	°C	-40 ~ 100 °C (well control range : -30~ 90 °C)
Temperature Fluctuation	°C	±0.2 to ±0.5
Temperature Variation	°C	±0.1 to ±1.0
Temp heat up time	min	within 40min(-40 20 °C)
Temp cool down time	min	within 75min(20 -40°C)
Humidity range	%RH	30~95% (well control range : 50~ 90%RH)
Humidity Fluctuation	%RH	±2%
Humidity Variation	%RH	±5%
Internal dimensions (W*D*H)	mm	Negotiable
External dimensions (W*D*H)	mm	



- Great control in Temp/Humidity
- Outstanding Consistency

Thermal Chamber (TC series)



Chamber volume	liters	150
Controller		color touch screen type controller
Temperature range	°C	-50 ~ 150 °C
Temperature Fluctuation	°C	±0.1
Temperature Variation	°C	±0.5
Internal dimensions (W*D*H)	mm	500 x 500 x 600
External dimensions (W*D*H)	mm	700 x 900 x 1500
Temp. sensor		PT100 Ω
Temp. refrigerator		- Comp. 1HP unit 1set - Air cooling condenser
Power		110V or 220V, 1P/3P, 50/60Hz

- Sampling Test in **LOW** temperature

HAST

(Highly Accelerated Temperature/Humidity Test)

1. HAST accelerates corrosion of metallic mold lines and thin film -resistant device.
2. HAST works electrical bias in 130C, 85%RH for 96 to 264 hours.

Testing conditions

	Temperature (dry bulb °C)	Relative Humidity (% R.H)	Temperature (wet bulb, °C)	Vapor Pressure (psia /kPa)	Duration (hours)
A	130 ± 2	85 ± 5	124.7	33.3/230	96 (-0, +2)
B	110 ± 2	85 ± 5	105.2	17.7/122	264 (-0, +2)



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