Low Temperature Incubator (Programmable)

Forced Convection Circulation

IN604/604W/804



Temp. distribution accuracy

±1.0°C (at 37°C)



Best selling machines for low temperature tests and environmental tests.

- Applicable for a wide variety of applications from various constant temperature tests to environmental tests
- High accuracy temperature control and temperature distribution
- Designed with a large dual glass door and inner door that forms a triplex glass door for improved heat retention (IN604W)
- Optional slide shaker table available to put it and take out sample easily (IN604W)
- Interior light for better sample visibility (IN604W)
- Inner glass door keeps temperature stable during sample

Control Panel





Specifications

Product code		211289	211290	211280		
Model		IN604	IN604W	IN804		
System		Forced convection circulation				
Operating temperature range		-10°C~+50°C				
Temperature adjustment range		±0.3°C (Refrigerator is in continuous operation)				
		±1.0°C (Refrigerator is in cycle operation)				
Temperature distribution accuracy*1		±1.0°C(at 37°C refrigerator is in continuous operation)				
Time to attain the max. temperature*1		20~50°C Approx. 20min		20~50°C Approx. 30min		
Time to attain the lowest temperature*1		20~ -10°C Approx. 45min	20~ -10°C Approx. 55min.	20~ -10°C Approx. 65min		
Interior material		Stainless steel plate				
Exterior material		Chrome free electronic galvanized plated steel plate Chemical proof baking finish				
Observation window		-	W516 x H416 mm	_		
Heat insulator		Styrene foam (non-freon)				
Refregirator cooling medium / Operating range		R134A / 44°C or less		R404A / 44°C or less		
Defrosting mechanism		Manual ON / auto OFF, Cycle operation, Timer operation				
Blower fan		Axial flow fan				
Heater		Iron-chrome wire heater: 550W Iron-chrome wire heater: 750W				
Sensor		Double sensor: Platinum resistance temperature detector :Pt100Ω(temperature controller), K-thermocouple (Overheat preventive device)				
Cable port		I.D.: 32 mm (right side)	I.D.: 50 mm (right side)	I.D.: 32 mm (right side)		
Room light / service outlet		-	Fluorescent lamp: 10W / 5A with a grounding terminal	-		
Temperature control system		PID control				
Temperature setting system		Digital setting system with UP/DOWN keys				
Temp. display / information display		4-digit LED digital display / Fluorescent tube display				
Timer / timer resolution		0~999hrs 59min/1min				
Operation functions		Fixed temperature, Program operation, Auto stop, Auto start				
Program mode		Up to 32 steps, Repeat, Gradient operation				
Additional functions		Timer function (Accumulated time to 49,999 hrs, Calibration offset function, Clock display)				
Safety device		Self diagnostic function (Temp. sensor error, Heater disconnection, SSR short-circuit, Main relay error, Automatic overheat prevention function), Key lock, Over current ELB, Independent overheat preventive device				
Internal dimensions		W600×D477×H500mm		W600×D477×H1,000mm		
External dimensions*2		W710×D645×H913mm		710×D645×H1,630 mm		
Internal capacity		143L		286L		
Shelf plate load		15 kg / pc.				
Shelf rest step number / pitch		13 steps / 30 mm 23 steps/30 mm				
Power supply (50/60Hz)		AC115V / AC220V Single phase				
Weight		Approx. 89 kg Approx.120 kg				
Accessories	Shelf / shelf support			Stainless steel punched metal 5 pcs. stages / 10 pcs.		
	Door keys	-	2 keys	-		
1 Conditions: to	emperature and humidi	ty: 23°C±5°C, 65%RH±20% (no load)				

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^{*2} Do not include protrusions

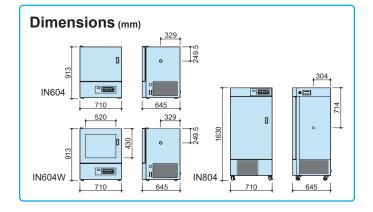


Interior

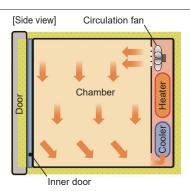


Interior Light

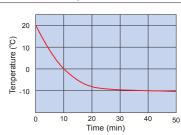




Method



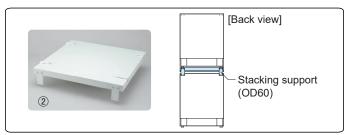
Temperature Drop Curve (IN604)



Optional items

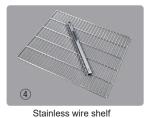
No.	Description	Model	Product code	
1	Stand	IN604/604W	ON61	211856
2	Stacking support	IN604/604W	OD60	212823
3	Stainless punching metal shelf (with bracket 2 pcs.) (Loading up to 15 kg/shelf)	All models	-	211221
4	Stainless wire shelf (with bracket 2 pcs.) (Loading up to 20 kg/shelf)	IN604/604W	-	211898
(5)	Stainless wire shelf (with bracket 2 pcs.) (Loading up to 20 kg/shelf)	IN804	-	212918
6	*External communication Function (RS422A)	All models	-	281166
7	*External communication Adapter (Changeable to RS232C)	All models	-	281167
8	*Temperature output terminal	All models	-	281168
9	*External alarm terminal	All models	_	281169
10	*Time-up output terminal	All models	-	281170
11)	Shaker setting stage with slide rail	IN604W	-	211318
12	Drain water tray	All models	-	213466

^{*} Please specify when ordering main unit.





(with bracket 2pcs)



(with bracket 2pcs)

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