

Low Temperature Incubator (Programmable)

Forced Air Convection

IN604/604W/804

Operating temp. range -10°C~+50°C

Temp. distribution accuracy ±1.0°C (at 37°C)

Internal capacity 143L IN604/604W 286L IN804

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 observation
- Employs R404A coolant that complies with Freon regulations



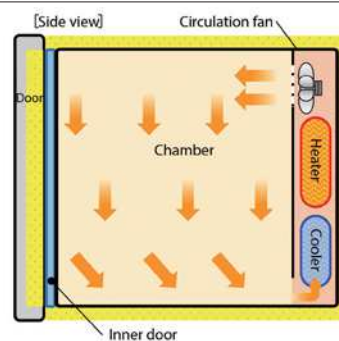
(Stand optional)

Specifications

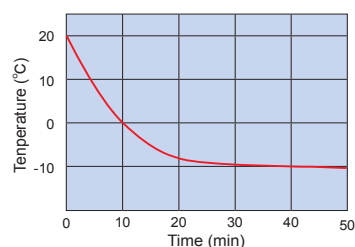
Model	IN604	IN604W	IN804
System	Forced air convection		
Operating temperature range	-10°C~+50°C		
Temperature adjustment range	±0.3°C (during continuous operation of freezer) ±1.0°C (during operation of freezing cycle)		
Temperature distribution accuracy	±1.0°C(continuous operation of freezer at 37°C)		
Time to attain the max. temperature	20~50°C Approx. 20min		20~50°C Approx. 30min
Time to attain the lowest temperature	20~-10°C Approx. 45min/20~4°C Approx. 55 min	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)		
Freezer	Air-cooled fully closed compressor 250W		Air-cooled fully closed compressor 300W
Freezer cooling medium	R134A		R404A
Defrosting mechanism	Manual ON/auto OFF, timer operation, cycle 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, Overheat preventive device		
Internal dimensions	W600×D477 x H500 mm		W600×D477×H1,000mm
External dimensions	W710×D645 x H913 mm		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 with step-down transformer		
Weight	Approx. 89 kg		Approx.120 kg
Accessories	Shelf/shelf support	Stainless steel punched metal 3 stages/6	
	Door keys	-	2 keys



Method



Temperature Drop Curve (IN604)



Control Panel



Interior



IN604W with MK161 shaker



IN604

Interior Light



For models with observation window

Shelf & Bracket Set



Stainless punching metal



Stainless wire

Optional items

Description	Model	Product code
Stand	IN604/604W ON61	211856
Stacking support	IN604/604W OD60	212823
Stainless punching metal shelf (Loading up to 15kg/shelf)	All models	- 211221
Stainless wire shelf (with support 2 pcs., Loading up to 20 kg/shelf)	All models	- 213464
*External communication Function (RS422A)	All models	- 281166
*External communication Adapter (Changeable to RS232C)	All models	- 281167
*Temperature output terminal	All models	- 281168
*External alarm terminal	All models	- 281169
*Time-up output terminal	All models	- 281170
Shaker setting stage with slide rail	IN604W	- 211318
Drain water tray	All models	- 213466

* Please specify when ordering main unit.

Dimensions (mm)

