Programmable Refrigerated Incubator

Forced Air Convection

IN604-115V IN604-220V / IN604W-115V IN604W-220V
IN804-115V IN804-220V / IN804W-115V IN804W-220V

MADE IN JP

Operating temp. range	-10°C~+50°C	Temp. distribution accuracy	±1.0°C (at 37°C)	Internal capacity	143L (IN604/604W)	286L (IN804/804W)

Applicable for low temperature tests and environmental tests

- High accuracy temperature control and temperature distribution
- Inner glass door keeps temperature stable during sample observation
- Designed with a large dual glass door and inner door that forms a triplex glass door for improved heat retention (IN604W/804W)
- Interior light for better sample visibility (IN604W/804W)
- Optional slide shaker table available to put in and take out sample easily (IN600 models)

Observation window dimension: W516 x H416mm

143L IN604-115V IN604-220V (Stand optional)

143L IN604W-115V IN604W-220V

Specifications

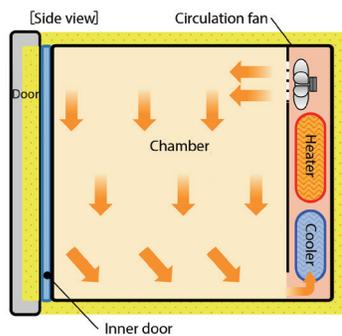| Model	IN604-115V IN604-220V	IN604W-115V IN604W-220V	IN804-115V IN804-220V	IN804W-115V IN804W-220V
System	Forced air convection			
Operating temperature range	-10°C~+50°C			
Temperature adjustment accuracy	±0.3°C (refrigerator in continuous operation)			
	±1.0°C (refrigerator in cycle operation)			
Temperature distribution accuracy	±1.0°C (refrigerator in continuous operation at 37°C)			
Maximum temperature reaching time	20~50°C ~20min		20~50°C ~30min	Data not available
Minimum temperature reaching time	20~-10°C ~45min	20~-10°C ~55min	20~-10°C ~65min	Data not available
Interior material	Stainless steel			
Exterior material	Chrome free electronic galvanized plated steel plate chemical proof baking finish			
Observation window	--	W516 x H416mm (with key)	--	Data not available
Heat insulation material	Styrene foam			
Refrigerator	Air-cooled fully closed compressor 250W		Air-cooled fully closed compressor 300W	
Refrigerator medium	R134A		R404A	
Defrosting mechanism	Manual ON / Auto OFF, Timer operation, Cycle operation			
Blower fan	Axial fan			
Heater	Iron-chrome wire heater: 550W		Iron-chrome wire heater: 750W	
Sensor	Platinum resistance temperature detector: Pt100Ω (temperature controller), K-thermocouple (overheat prevention device)			
Cable port (right side of main unit)	I.D. 32 mm	I.D. 50 mm	I.D. 32 mm	I.D. 32 mm
Room light / service outlet	--	Fluorescent lamp: 10W/5A with grounding terminal	–	Flourescent lamp: 10W/5A with grounding terminal
Temperature control	PID control			
Temperature setting	Digital setting with ▲/▼ keys			
Temperature display	Measured temperature: 4-digit orange LED digital display + VFD fluorescent display			
Timer / timer resolution	0 min.~999 hrs. 59 min. / 1min.			
Operation function	Fixed temperature, auto stop, auto start, program (up to 32 steps, repeat operation)			
Additional functions	Timer function (accumulated time to 49,999 hrs), calibration off-set 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 prevention device			
Internal dimensions (WxDxH mm)	600 x 477 x 500		600 x 477 x 1000	
External dimensions (WxDxH mm)	710 x 645 x 913		710 x 645 x 1630	
Internal capacity	143L		286L	
Shelf plate load	15 kg / pc.			
Shelf rest step number / pitch	13 steps / 30mm		23 steps / 30mm	
Power supply (50/60Hz)	AC115V 9A *with plug* AC220V 5.5A *no plug, round terminal*	AC115V 10.5A *with plug* AC220V 7.5A *no plug, round terminal*	AC115V 10.5A *with plug* AC220V 6A *no plug, round terminal*	AC115V *with plug* AC220V *no plug, round terminal*
Weight	~89 kg		~ 120 kg	
Included accessories: Shelf / shelf brackets	3 pcs. / 6 pcs. (stainless steel punched metal)		5 pcs. / 10 pcs. (stainless steel punched metal)	
Door keys	--	2 keys	--	2 keys
Optional items	Stand, additional shelf, cable port (ø30/50mm), recorder, warning light combination (stand-by/operation/error), observation window, temperature output terminal (4-20mA), external alarm output terminal, time up output terminal			

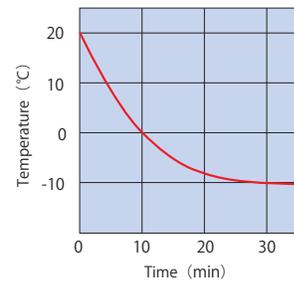286L
IN804

Control Panel

Method

[Side view]

Circulation fan

Door

Chamber

Heater

Cooler

Inner door

■ Optional items

Description	Product code	Model	Applicable units
Stand	281596	OA194	IN604/604W
Metal stacking kit with cooling fan for 600 models	212823	OD60	IN604/604W
Stainless steel punched metal shelf up to 15kg	211221	--	All
Stainless steel wire shelf up to 20kg	213464	--	All
Temperature output terminal*	281168	--	All
External alarm terminal*	281169	--	All
Time up output terminal*	281170	--	All
Seismic mat for 600 models	296902	--	IN604/604W
Shaker setting stage with slide rail	211318	--	IN604W

* Please specify when ordering main unit.

Temperature Drop Curve (IN604)

Interior

IN604W with MK161 shaker

IN604

Shelf & Bracket Set

Stainless punched metal

Stainless wire

Interior Light

IN604W/804W

Dimensions (mm)

IN604   IN604W   IN804