

Programmable Refrigerant Incubator

Forced Air Convection

IN604/604W/804/804W

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 (IN604W/804W)



(Stand optional)

Specifications

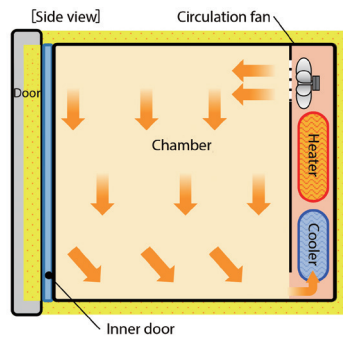
Model	IN604	IN604W	IN804	IN804W
System	Forced air convection			
Operating temperature range	-10°C~+50°C			
Temperature adjustment accuracy	±0.3°C (refrigerator in continuous operation) ±1.0°C (refrigerator in cycle operation)			
Temperature distribution accuracy	±1.0°C (refrigerator in continuous operation 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	--	Fluorescent 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 8.7A with plug AC220V 4.5A no plug, round terminal	AC115V 10.4A with plug AC220V 5.5A no plug, round terminal	AC115V 10.4A with plug AC220V 5.5A no plug, round terminal	AC115V AC220V
Weight	~89 kg		~120 kg	
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, external communication function (RS485), temperature output terminal (4-20mA), external alarm output terminal, time up output terminal			



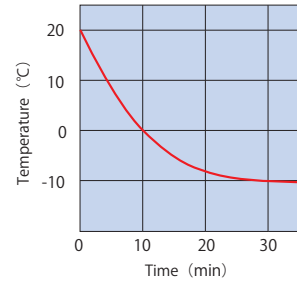
Control Panel



Method



Temperature Drop Curve (IN604)



Interior

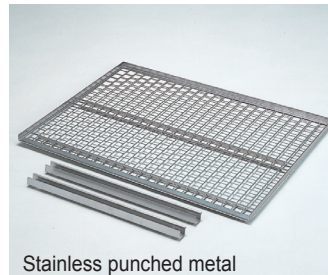


IN604W with MK161 shaker



IN604

Shelf & Bracket Set

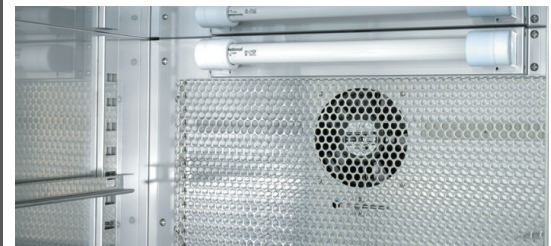


Stainless punched metal



Stainless wire

Interior Light



IN604W/804W

Optional items

Description	Product code	Model	Applicable units
Stand	211856	ON61	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
External communication function (RS422)*	281166	--	All
External communication adapter (RS232C)*	281167	--	All
Temperature output terminal*	281168	--	All
External alarm terminal*	281169	--	All
Time up output terminal*	281170	--	All
Seismic mat for 600 models	296902	--	All
Shaker setting stage with slide rail	211318	--	IN604W
Drain water tray	211318	--	All
Shaker table with slide rail for 600 models	211318	--	All

* Please specify when ordering main unit.

Dimensions (mm)

