



Low Temperature Incubators

Yamato

Natural Convection

Model IL601 / 701

Model

601

701

Operating Temperature Range

4°C~50°C

0°C~50°C

Temp. Distribution Accuracy

±1.0°C (at 37°C)

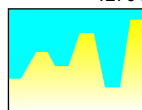
Internal Capacity

159ℓ

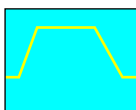
● Control panel ●



IL701

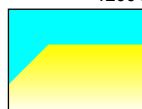


Programming operation



Automatic start & stop

IL601



Fixed temp. operation

● Interior ●



Air-jacket method is adopted that media are hard to dry.

Low temperature incubators equipped with an interactive thermoregulator aiming at improvement of operability, performance and safety, coping with the regulation of specific Freon.

- Input duplication or error is avoided, adopting an interactive key input system.
- 16-segment programming is available. weight function guarantees the time of treatment, (Model IL701 only)
- The R134a is adopted as a medium for freezer, coping with the regulation of specific Freon.
- Safety measures are enriched, including self diagnosis function.
- Possible to bring a cable into the incubator.

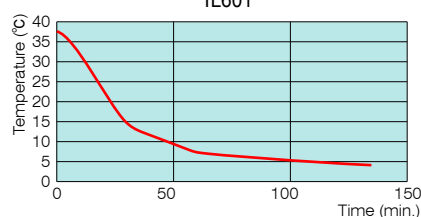


IL601

IL701

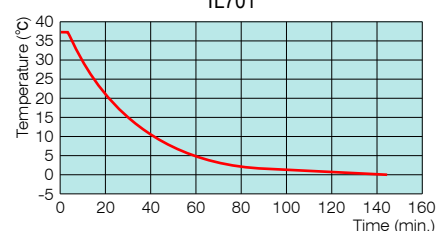
● Characteristic Curve

IL601



Refrigerator is in the continuous operation
Temp. setting 37°C→4°C

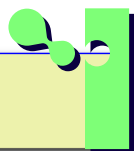
IL701



Refrigerator is in the continuous operation
Temp. setting 37°C→4°C

HFC
OZONE SAFETY

Yamato



Low Temperature Incubators



Natural Convection

Specifications

Model	IL601	IL701
■ Performance		
Circulation method	Natural convection by air jacket	
Operating temperature range	4~50℃	0~50℃
Temp. control accuracy	±0.3℃ (when refrigerator is in the continuous operation) ±1.0℃ (when refrigerator is in the cycle operation)	
Temp. distribution accuracy	±1.0℃ (when refrigerator is in the continuous operation at 37℃)	
■ Components		
Interior Material	Stainless steel SUS 304	
Exterior Material	Cold rolled steel plate with baked-on melamine resin finish	
Inner door	5mm thick reinforced glass	
Heat insulating material	Styro-form (non-freon)	
Refrigerator (medium : R-134a)	Air cooling enclose type, 300W	
Defrosting mechanism	Hot gas bypass system	
Heater	Iron-chrome wire heater, 800W	
Cable hole	32mm I.D. (left side)	
■ Controller		
Temp. controller	PID control by micro processor	
Temp. setting method	Digital setting with ▲▼ key	
Temp display method	Digital display green LED	
Timer / Min. division	1 min.~99 Hrs. 59 min. and 100 Hrs.~999 Hrs / 1 min. or 1 Hrs.	
Operation function	Fixed temperature operation (IL601/701), Quick auto-stop (IL701 only), Program operation, Max.16 segments/pattarn (IL701 only)	
Additional function	Temperature preset function, Calibration-off set function, Integrating time function (up to 49,999 hours)	
Heater circuit control	Triac zero-cross control	Triac zero-cross control
Temp. sensor	Thermistor	Platinum resistance bulb
■ Safe Device		
Safety countermeasures	Self diagnosis functions (temperature sensor abnormal, heater disconnection, triac short circuit), Electric leakage breaker, Resume function (IL601 only)	
■ Standard		
Internal dimensions(W×D×Hmm)	600×530×500	
External dimensions(W×D×Hmm)	710×645×1,008	
Internal capacity	159 liters	
Shelf plate with standard load	Approx. 15 kg / piece	
Shelf rest pitch	35 mm	
Power source 50/60Hz	100V/230V, single phase, 13.5/6.0A	
Weight	Approx. 89 kg	
■ Accessories		
Shelf plate	Stainless steel, 3 pcs.	
Shelf bracket	6 pcs.	
■ Optional Accessories		
Stand / Additional shelf plate / External communication terminal(RS422A) / Temp. output terminal / External communication adaptor(RC23) / Printer (IL701) / Independent overheating prevention etc.		