



IL603

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.

Model	
IL603	ILE800
Operating Temperature Range	
0deg.C to 50 deg.C	0deg.C to 60 deg.C
Temp. Distribution Accuracy	
±1.0deg.C(at37deg.C)	
Internal Capacity	
159L	300L



ILE800

- input duplication or error is avoided, adopting an interactive key input system.
- 99 step programming is available. weight function guarantees the time of treatment.
- 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.

■ Specifications

	IL603	ILE800
Performance		
Circulation method	Natural convection by air jacket	
Operating temperature range	0 to 50deg.C	0 to 60deg.C
Temp. control accuracy	±0.3deg.C (when refrigerator is in the continuous operation) ±1.0deg.C (when refrigerator is in the cycle operation)	
Temp. distribution accuracy	±1.0deg.C (when refrigerator is in the continuous operation at 37deg.C)	
Components		
Interior Material	Stainless steel	
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 Manual ON/OFF, Timer operation, Cycle operation	
Heater	Iron-chrome wire heater, 800W	
Overheat prevention	Integrated electronic controller	Electronic stand alone type
Door key	1 pc	
Cable hole	50mm I.D.	
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. to 99 Hrs. 59 min. and 100 Hrs. to 999 Hrs / 1 min. or 1 Hrs.	
Operation function	Fixed temperature operation, Auto-start/Auto-stop operation	Fixed temperature operation, Auto-start/Auto-stop operation, Program operation: You can make patterns within the program memory capacity, 99 step (Repeat, Ramp operation, Quick auto-stop)
Fan	Axial fan, 14/13W (50/60 Hz)	Axial fan, 14/13W (50/60 Hz)×2
Heater circuit control	Triac zero-cross control	
Temp. sensor	Double sensor: Platinum resistance temperature detector :Pt100Ω(temperature controller), K-thermocouple (overheat preventive device)	
Safe Device		
	Self diagnosis functions (Automatic overheat prevention, Temperature sensor trouble, heater disconnection, Min relay malfunction, Refrigerator trouble, Communication trouble, Timer trouble, Triac short circuit), Circuit breaker, Alarm buzzer	
Standard		
Internal dimensions (W×D×Hmm)	600×530×500	600×530×1,000
External dimensions(W×D×Hmm)	710×645×1,008	785×650×1,765
Internal capacity	159 liters	300 liters
Shelf plate with standard load	Approx. 15 kg / piece	Approx. 15 kg / piece
Shelf rest pitch	30mm 12 steps	30mm 29 steps
Power source 50/60Hz	AC100V 14A(15A)	
weight	Approx. 90 kg	Approx. 150 kg
Accessories		
Shelf plate	Stainless steel, 3 pcs.	
Shelf bracket	6 pcs.	

■ Optional items

Remark	Description	Model No.	Product Code
○	Stand ON61	IL603	211856
	External Communication Adapter OIL24 (USB terminal PC conversion, connection cable)	IL603	213465
	External Communication Adapter ODK18 (RS-232C terminal PC conversion)	IL603	281349
	Shelf, Standard (with support 2 pcs)	IL603	212266
	Shelf, Stainless Steel Wire OIL22 (with support 2pcs)	IL603 ILE800	213464
	Drain Water Tray OIL26 (to be used together with Stand ON61) Volume: 4L	IL603	213466
	Drain Water Bottle OIL28 (to be fixed to the side of the main unit)	IL603	213467
	Shelf, Standard (with support 2 pcs)	ILE800	212839
	Temperature Output Terminal OIL12 (4-20mA)	ILE800	213460
	External Alarm Terminal OIL14	ILE800	213461
	External Communication Terminal OIL16 (RS485 terminal)	ILE800	213462
	EXternal Communication Adapter OCI48 (USB-RS486 conversion, connection cable)	ILE800	211884
	Fall Prevention Bracket OIL18 (ea.2, Φ11 anchor bolt opening x3)	ILE800	213463
	Drain Water Tray OIL26 Volume: 4L	IL800	213466

Note:

1. The item marked "●" in the column of "Remark" shall be ordered together with the main unit.
2. The transportation cost will not be required if the order is together with main unit except the item marked "○". In case you order the item marked "○" together with the main unit, please ask Yamato to obtain the correct transportation cost.