Programmable Refrigerated Eco Incubator



Energy savings

Forced Air Convection

INE800-115V / INE800-220V



Temp. distribution accuracy

±0.5°C (at 37°C during continuous operation) Internal capacity

Upgraded inverter control improved refrigeration efficiency, reduced frost significantly and minimized wasted power during refrigeration.

Inverter control

44% power savings compared to previous models

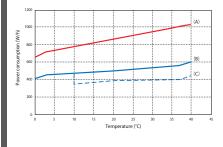
286L

- Controller upgraded for easier viewing and operability
- Temperature distribution accuracy improved for better incubation
- Standard equipped with program operation, auto-stop, auto-start, self-diagnostic, timer, calibration off-set, memory, and electricity & CO₂ emission monitor

Specifications

Model	INE800-115V	INE800-220V				
System	Forced air convection					
Operating temperature range	0~+60°C					
Setting temperature range	-5~+65°C					
Temperature adjustment accuracy	±0.2°C (at 37°C during continuous operation), ±0.5°C (at 37°C cycle o	peration)				
Temperature fluctuation	±0.3°C (at 37°C during continuous operation), ±1.0°C (at 37°C cycle operation)					
Temperature distribution accuracy	±0.5°C (at 37°C during continuous operation)					
Temperature gradient	2.0°C (at 37°C during continuous operation)					
Max. temperature reaching time	20~60°C 35min.					
Min. temperature reaching time	20~0°C 50min.					
Cooling Mechanism	Continuous operation, Cycle operation, Cooling-stop operation					
Interior	Stainless steel					
Exterior	Chromate-free electrogalvanized steel plate Baked chemical resistant	finish				
Heat insulator	Styrene foam (non-freon)					
Freezer	200W Rotary Unit					
Cooling Medium	R134a 350g					
Operation range of freezer	Below 40°C					
Defrosting mechanism	Hot Gas Bypass Method, Manual (random) Defrost / Auto (time) Defrost					
Blower fan	DC Axial flow fan 4-Step, Equipped with Error Signal when stopped					
Heater	Iron-chrome wire heater : 750W					
Sensor	Double sensor: Platinum resistance temperature detector: Pt100Ω (temperature controller), K-thermocouple (overheat preventation device)					
Cable port	I.D.: 50 mm (right side of main unit)					
Temperature controller	PID control by microprocesser					
Temperature Display	Setting Temp. Display : 5-digit orange LED digital display, Actual Temp. Display : 4-digit green LED digital display					
Timer / timer resolution	0~99hr. 59min. / 1min.					
Operation function	Fixed temperature, Auto start, Auto stop, Quick auto stop, Program (99 steps, 99 patterns)					
Additional function	Timer, Calibration off-set, Electricity & CO ₂ Emission Monitor, Voltage Recovery Optional, User Setting saving/readout, Calendar timer (24 hours)					
Safety device	Self diagnostic function (temp. sensor error, heater disconnection, SSR short-circuit, main relay error, automatic overheat prevention), Key lock, Overcurrent electric leakage breaker, Overheat preventation device, Fan malfunction detector, Cooling high-pressure detector, Inverter malfunction detector					
External dimensions	W710 x D645 x H1730mm					
Internal dimensions	W600 x D477 x H1000 (effective 800) mm					
Internal capacity	286L					
Shelf load capacity	15 kg/pc.					
Shelf rest step number / pitch	23 steps / 30mm					
Power supply (50/60 Hz)	AC115V 8.7A (with plug) AC220V 4.5A (no plug, round terminal)					
Weight	~135kg					
Included accessories	Stainless steel punched metal 5 pcs. shelf / 10pcs. brackets, 2 keys, s	ilicon stopper for cable hole 1 pc				

Power Consumption Comparison



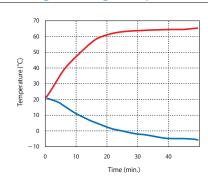
				Unit: Wh
	0°C	3°C	20°C	37°C
IN804	648	712	864	1007
INE800	409	446	498	560
Reduction Rate	37%	37%	42%	44%

Comparison with IN804

1. Condition : AC115V/50Hz, Room Temp 23°C, 5 shelves, no load 2. Data was taken when each setting was stable

CO₂ emissions reduced by approx 1,269 kg (Calculated for 1 year operation with 37°C setting)

Falling / Rising Temp. Curve

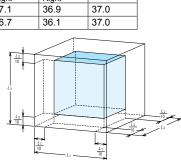


9 Point Temperature Distribution

	Upper Front	Upper Back	Upper Front	Upper Back	Lower Front	Lower Back	Lower Front	Lower Back	Center Side	(°C)
	Left	Left	Right	Right	Left	Left	Right	Right	Center Side	l` ´
No load	37.1	36.2	37.2	36.9	36.8	36.8	37.1	36.9	37.0	
Loaded	37.1	36.3	37.0	36.9	36.5	35.9	36.7	36.1	37.0	

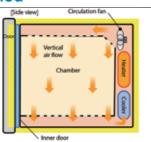
Condition

- 1. Above 9 measurement points were taken from the effective internal capacity down-scale by 10% (as the image on the right) 2. Room Temp. 23°C, AC115V, 50Hz, Average temperature during stable
- setting temp. set at 37°C
- 3. No Load condition: 5 shelves
- 4. Loaded condition: each of the 12 shelves were loaded with 20 Petri Dishes (Total: 240 Petri Dishes)





Method



External Output Terminal (Top: optional Bottom: standard)

FETEELE EFFECT

Control Panel



Cable Port (I.D.Ф50mm standard)

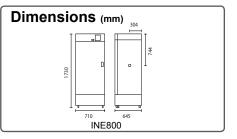


Overheat Prevention Device



Shelf & Bracket Set





Optional items

Description	Product code			
(1) Stainless steel punched metal shelf up to 15kg	211221			
(2) Stainless steel wire shelf up to 20kg	212918			
(3) External alarm terminal*	211881			
(4) Time-up output terminal*	211882			
(5) Earthquake resistant fixture 211883				
* (3) and (4) please specify when ordering main unit				

BRO-INE-202202