- ALB64
- ALB128
- ALB6400

Operating Manual

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- ▲ CAUTION-Before attempting to operate the unit, read this instruction manual carefully
- **△** CAUTION-HIGH TEMPERATURE

"Don't touch the block while it is in operation and until the temperature of the block goes down after turning it off"



CHARACTERISTICS

- P.I.D temperature controller Easy to control and check setting temp.
- FINEPCR Blocks are much ticker than others
 - Prevent current temp. from sudden down when a tube is put into a tube hole.
- Do not need put water or mineral oil into the gab between hole and tube. The shape of hole is same with tubes.
- Temperature Calibration
 - Able to calibrate the different temperature between setting and current temp.
- Safe device.
 - A. Electrical fuse
 - B. If current temp. does not reach the setting temp. for 2hours ALM Lamp on temperature controller would be brink.
 - C. This books are used in up to 150 C(ALB 64, 128), 95(ALB 6400) C. If the current temp. is over 150.5 C(ALB64, 128), 95.5(ALB 6400) C, ALM lamp would be brink
 - D. If the current temp. keep over 150 C continually, the heater would be turned out automatically.

Thermo Bath



ALB 64 (Ambient +5 ~150 °C)

One block

(Dimension - external: W148XD230XH155)



ALB 128 (Ambient +5 ~150°C) Two blocks

(Dimension - external: W238XD230XH155)

COOL BLOCK



ALB6400 (0 ~ 95°C)

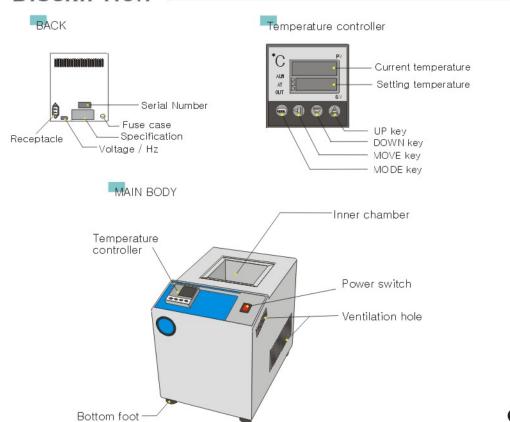
One block

(Dimension - external: W190XD278XH230)

SPECIFICATION

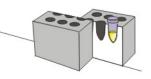
SPECIFICATION				
	ALB64	ALB128	ALB 6400(Cool Block)	
Temp. range	Ambient +5°C ~ 150°C		0°C∼95°C	
Temp. accuracy	±0.5°C			
Cooling method			Peltier heat pump	
Heating method	Cartridge Heater 120W - 2ea	Cartridge Heater 120W - 4ea	Cartridge Heater 120W - 2ea	
Material	Energy plate and sample block : Aluminum			
	Inside and insulating side : stainless steel			
Dimension(mm)	W148XD230XH155	W238XD230XH155	W190XD278XH230	
Wattage	250W	490W	300W	
Weight	4kg without block	7kg without blocks	8kg without block	
Power	AC 110V / 220V / 230V~, 50/60Hz			

DISCRIPTION



USER CONSIDERATION

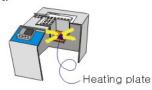
- Do not need put water or mineral oil into the gab between holes and tubes because the shape of hole and tube is same.
 - * never use PEG with this instrument, PEG could peel off the paint of main body.



During use this instrument, Please do not touch the block. Hand could be burnt.

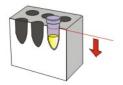


For stable temperature, the heating plate and the bottom of block should be clean. Please check the heating plate and the bottom of the block whether it is clean before using the instrument.



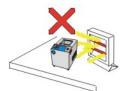
When you move this instruments, Please be careful not to drop.
Because it is designed by very senstive parts. Some impact could be cause fatal defects.

For precise test, Do not fill up reagent in the tube, keep the line inside the hole.



Do not place this instruments beside sunny place or heater. If the main body is higher than room temperature, It could affects the inside setting temperature.





Be careful not to drop any chemical liquid or water into the hole for blocks, because it could be reason of causing unstable setting temperature.

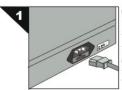


Environmental conditions

- Indoor use.
- Temperature 5°C to 40°C.
- Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.
- Mains supply voltage fluctuations not to exceed ±10% of the nominal voltage.
- Other supply voltage fluctuations as stated by the manufacturer.
- Transient overvoltages according to installation categories.

USER OPERATION

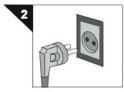
This section summarizes operation procedures for FINEPCR's Heat Block & Cool Block controlling the temperature.



Check the name rating plate for the correct voltage, then plug the power cord into the receptacle on back of the instrument.



Place setting temp. using 'up-down'key



Plug the power cord into the wall receptacle.



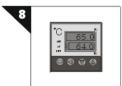
Put a block to the hole

⚠ Caution

Before place a block check the bottom of block and inside heating plate clean.



Press 'mode'key for confirming setting temp.

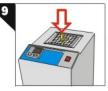


⚠ Caution

Temprature calibration.
(If there are some
difference between
current temp. and
setting temp. Please
refer the section for
calibrating Temperature)



Turn the power on/off control button to position 'ON'



When the setting and current temp. are same, Put tubes to the holes into the block.



(Temperature setting)
Press 'mode'key on
the temperature
controller.

* LED for setting temp. Will be brinked.



Put the block on the

MAINTENANCE AND CLEANING

- ⚠ Always unplug the instrument before you start cleaning it.
- ⚠ Never immerse the appliance in water.
- ⚠ Never use the instrument if the plug, the cord or the instrument itself is damaged.
- This equipment is maintance-free

Clean the surfaces of the heated bath at regular interval

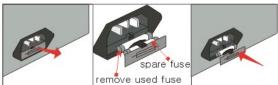
- water containing a surfactant detergent additive.
- Isopropyl alcohol

FAULTY RUNNING

- 1. The current temperature could not reach to setting temperature.
 - Room temperature could affect on controlling inside temp. In this case, the unit need 'AUTO TUNING' (see the 'AUTO TUNING' section of technical specification).
- 2. The current and setting temperature is different
 - Temperature bar may not be corrected, After testing the inside temperatures with several temp. bars at the same time, you could calibrate by referring calibrating temperature section of technical specification.
- 3. After turning on the power switch, The LED of the temperature controller could not display current temp.

 In this case, the electronic fuse is broken. You see the back of the incubator, the fuse box could be seen. After detaching the box as the pictures, change the fuse.

Be able to find a fuse box on the back of the instrument, after departing the fuse box, It could be very easy to change the fuse with new one.



If the equipment have other defects, It should be informed to an authorised servicing agent.

ACCESSORIES

- ♣ NON-STANDARDS CAN BE MADE BY ORDER
- * DIMENSION (mm): W90 X D90 X H60













AB90-0.2

Test tube 0.2ml: 64holes

AB90-0.5

Test tube 0.5ml: 49holes

AB90-1.5

Test tube 0.5ml: 36holes













AB90-12

Test tube 120 : 36holes

AB90-13

Test tube 13 0: 25holes

AB90-15

Test tube 15 ♦: 25holes









AB90-16.5

Test tube 16.5ϕ : 20holes

AB90-18

Test tube 18 0: 20 holes









AB90-C15

Conical tube 15ml: 9holes

AB90-C50

Conical tube 50ml: 5holes



GB-90(Ball bath)





JD-90





CV64-80 / CV128-80







1 YEAR WARRANTY

Limited Warranty:

This equipment has been tested all the functions and parts for proper operation before shipment.

Please read this manual carefully. If you have any questions or problems, check with your dealer or write us direct. This equipment is warranted for a period of 1year from date of purchase against defects in workmanship and material only. If a system component should ever fail to work perfectly, It can be repaired and replaced by our after-sales service without difficulty.

Model#:	
Serial# :	
Date Purchased:	
Dealer Name:	
City and Country:	



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