

Operating Manual Number : HEC-D001 Published : December 2006 Covering Model : DT-02/04

Disintegration Tester

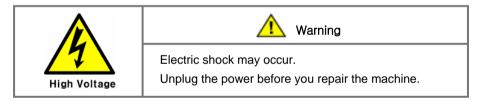


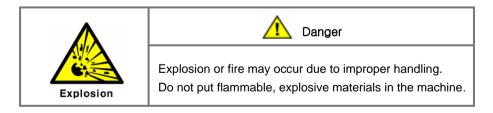
HumanLab Instrument Co.

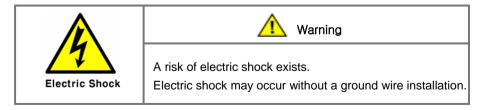
Safety Warnings

주의사항	Before operating, read and understand safety warnings thoroughly and use this equipment properly. Keep these warnings in mind for your safety.				
Safety Warnings: Danger!, Warning!, Caution!					
Danger : Failure to observe this instruction can result in a personal injury or death.					
<u>^</u> w	arning : Failure to observe this instruction may cause a fatal injury				
Ca	aution : Violation of this instruction and improper use may cause a serious injury and property damage.				







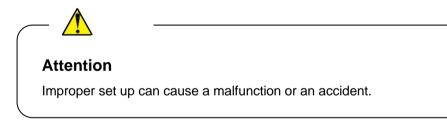


Features

This disintegration tester uses and applications has following features ;

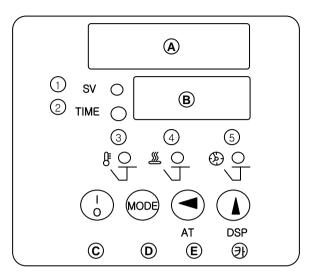
- 1) Adjustable temperature and time give you value and versatility.
- 2) Stabile up/down action, and low noise
- 3) Easy set the temperature and time, and high accuracy of the temp. control by digital PID controller.
- 4) Seamless corrosion resistant stainless steel chamber with tempered glass is easy to maintain.

Installation



- 1) Install the equipment on a firm area avoiding heat, humidity, dust and vibration.
- 2) Place it in a well ventilated area with enough space.
- 3) Install it horizontally on a firm and stable surface.

Controller

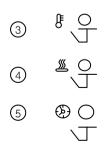


Function & Feature of the control panel

- (A) Display of current temp.& time
- B Display of set temp. & time
- 1 Lamp of SV
- 2 Lamp of Time
- 3 Lamp of start
- 4 Lamp of Heater

- (5) Lamp of Timer
- C Start/Stop Button
- D Parameter Set Button
- E Left Shift Key & Auto Tuning Button
- F Increase Value Key & Display button

Indicating Lamps



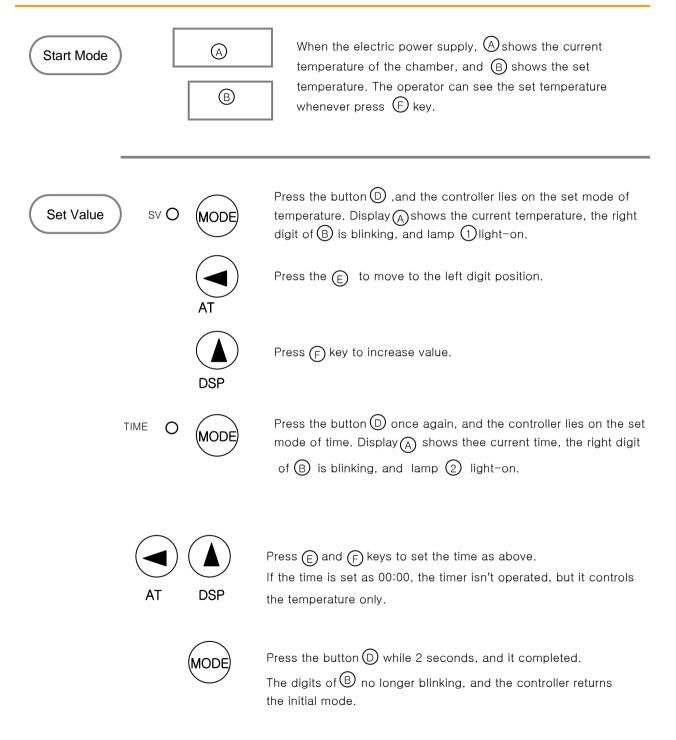
Light-on while running, and light-off when it stops running.

Light-on while the heater supply the power.

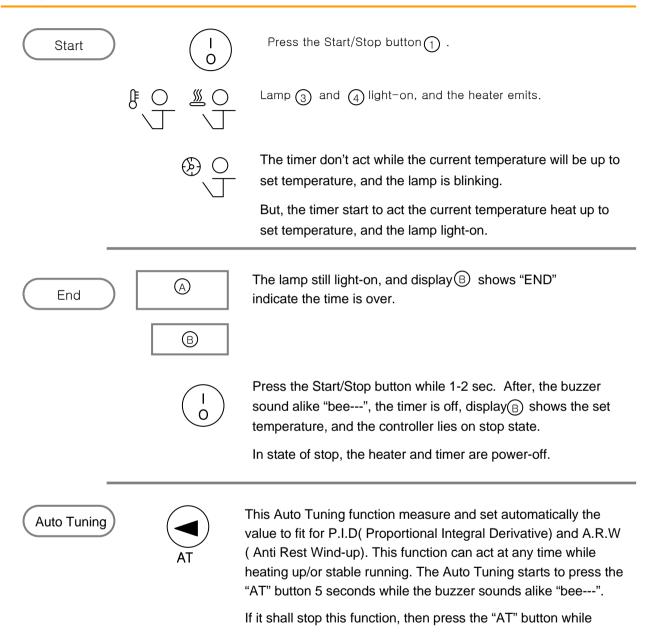
Lamp is blinking from starting up to set temperature, and light-off when the time is out.

But, the lamp don't light-on if the time set as 00:00

Before Operation



Operation Procedure



5 seconds, Then the lamp light-off, and release this function.

- ** This Auto Tuning function is preset, no need set procedure.
- ** Please try to do it in case as this function is not stabile.

Maintenance

<u> </u>		
Warning	Power off before cleaning the machine.	
Attention	Disconnect the electric plug.	
	Do not use benzene, soap, detergent and hot water	
	while cleaning. It causes the damage of parts and	
	malfunction of instruments	

- 1) Cleaning the interior
- -. Disconnect the electric plug.
- -. Remove the selves and self hangers.
- -. Clean the dirty by brush or cleaner.
- 2) Cleaning the exterior
- -. Wipe the rug or sponge wetted by neutral detergent,
- -. Polish by dried woven fabric.
- -. Do not use organic solvent.
- 3) Cleaning the electric components
- -. Use the dried woven fabric.
- 4) Stand by for a long time
- -. Disconnect the electric power source.
- -. Wipe the exterior and interior of machine
- -. Warp the machine and store it.

Trouble Shooting & Repair

Problems	Remedy & Repair	
The unit does not operate	 Make sure the power cord is plugged. Make sure the switch is on. Check a power outage. 	
Decrease of heating ability	Check the heater	
Temperature does not rise	 Check the set temperature Check the heater 	
Malfunctions of the controller	 Check whether other high voltage electric equipment is working nearby. 	

After Service

1) We guarantee 12 months in conditions of normal operation.

However, the machine or component were occurred the trouble,

then please let us know the details of as under;

- -. Detailed description of trouble and parts
- -. Machine Model.
- -. Manufacture or Purchase date.
- 2) We cannot guarantee the trouble occurred by as under;
- -. Mis-operation, unreasonable repairing and transform of machine by user.
- -. Transfer and handle roughly of the machine.
- -. Natural disaster and over current, voltage and frequency.
- -. Trouble occurred by mistake of operation.
- 3) Please let us know any furthers of this machine.

Technical data

	Range	Amb. to $37^\circ\!\!\!\!\mathrm{C}$	
Temp.	Controller	Digital PID controller	
	Sensor	PT-100 Ohm	
	Accuracy	±0.5℃	
	Range	28 -32 Rpm	
Up/Down	Stroke	53 -57mm	
	Drive	AC Motor	
	Bath	Tempered Glass	
Material	Body	Steel plate with powder coating	
	Heater	Water bath / 400W	
Control & Display		Digital PID control & LCD display	
Electric Source		220VAC, 50/60Hz	

Specification

Model	DT-2	DT-4
No. of well	2 x Dia.56.5mm	4 x Dia. 56.5mm
Working volume	50 - 100ml	100-250ml
In Size (W×D×H)mm	500×300×200	600×300×250
Out Size (W×D×H)mm	670×340×250	770×340×300
Weight (Kg)	30	45



HumanLab Instrument Co.

B-401,Jaeun Bldg,#417-33, Younghwa-dong,Jangan-gu, Suwon-si 440821, Korea

Tel : +82-31-256 3403 Fax : +82-31-256 3404 Email : sales@humanlab.co.kr www.humanlab.co.kr

Made in Korea

RECYCLABLE

2005-7A