

BLOOD PRESSURE

RESTRAINTERS

CATHETERS

ANALGESIA

BEHAVIORAL ACTIVITY

ANIMAL RESPIRATORS

SYRINGE PUMPS

TEMPERATURE PROBES

**Only system available with ramping temperature.**

IITC Life Science developed the only unit in the world capable of truly assessing pharmacological modulation of thermonociception. Used on latency and threshold based nociception for both conventional and non conventional analgesics a safe and humane way of testing.

As published in the British Journal of Pharmacology-

Almasi et al: Effect of resiniferatoxin on the noxious heat threshold temperature in the rat: A novel heat allodynia model sensitive to analgesics. 139(1):49-58, 2003, British Journal of Pharmacology

IITC's Incremental Hot Cold Plate is used to measure the nociceptive threshold of analgesic compounds in mice and rats. Conventional constant temperature hot plate tests only measure latencies of stronger narcotic agents.

IITC Incremental Hot/Cold Plate widens the range of analgesia research to new levels. The unit is microprocessor controlled and can be used for both incremental heating and cooling from any starting temperature from 0 deg. C. to 70 deg. C in 0.1 degrees C increments. The microprocessor monitors and controls the rate of heating/cooling which can be set from 1 to 10 deg C per minute. The front panel display shows all test results including length of test in .01 sec. increments, starting temperature and stopping temperature. The plate is uniformly heated/cooled at an adjustable rate and has automatic upper/lower cut-off limits. All parameters are entered via front panel keypad. i.e. rate of temperature increase/decrease, maximum/minimum temperature, date/time and animal number.

The unit can also double as a constant temperature hot plate. Temperature stability is .1 deg. C.

Upon reaction of either the hind or forepaw (whichever is chosen) the heating/cooling of the unit is reversed to the standby temperature within minutes. The data includes the date, animal number, temperature and time of day. The readout updates the controlled parameters.

Supplied with a clear animal enclosure. Plate size 4" x 8".

Two year warranty  
120/240V  
CE



**Features**

- Cold/Hot 0 - 70 degrees Celsius
- Ramping** temperature for threshold & latency results
- Rapid increase or decrease in temperature
- Precise Programmable digital control
- Print out of data
- Temperature stability is .1 deg. C.
- USB and RS232 Standard
- Printer output standard
- Footswitch standard
- Software for data collection (optional)
- Thermal printer (optional)

Part #	Description
PE34	Incremental Hot/Cold Plate for mice and rats
Series 8	Software
PE34E	Animal Enclosure