

# Stoelting Co. **instruction MANUAL**

Rodent Warmer  
Product Number 53800M, 53800R, 53800C



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## Stoelting Rodent Warmer

### Product Numbers 53800M, 53800R, 53800C

Stoelting's Rodent Warmer is designed for use before, during and after surgical procedures to improve surgical outcome and overall longevity. Monitor and maintain animal temperature with three operational settings: animal specific, timer or use with a thermal probe. Available with mouse, rat or home-cage heating pad.

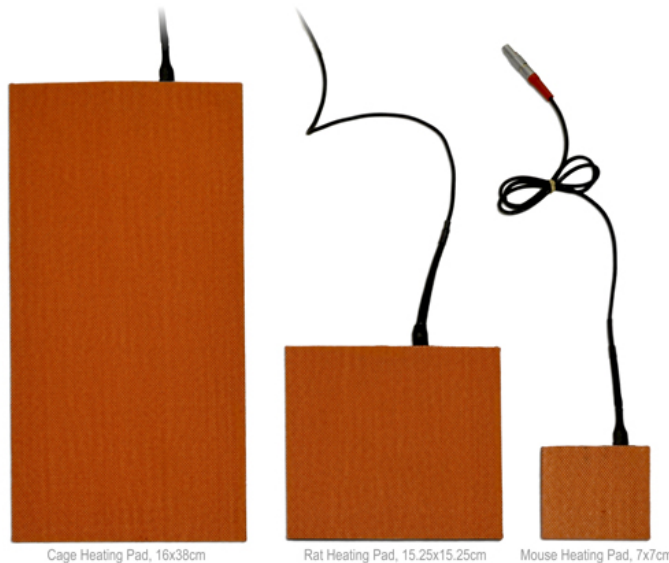


### Stoelting Rodent Warmer Features:

- Easy to use dial control
- Preprogrammed animal temperatures
- Use with or without rectal probe
- Light-weight, small footprint
- Heating Pad included (mouse, rat or home cage)



Shown with 53810  
Mouse Heating Pad, 7x7cm



Cage Heating Pad, 16x38cm

Rat Heating Pad, 15.25x15.25cm

Mouse Heating Pad, 7x7cm

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## Instructions for Use

### Start Guide

This guide will serve as a start-up guide for introducing the basic parts of the system. Please note: Connect a pad (included) and rectal probe (purchased separately) BEFORE turning the power “on.”

1. Connect the power supply to the control box
2. Connect the warming pad to the control box
3. Connect the rectal probe to the control box (optional)
4. Turn power switch ON



#### Power Switch

Turn Rodent Warmer ON or OFF

#### Start Button

Press “Start” to advance to the next screen. Press down and hold for 2 seconds to return to Home screen.

## Operational Settings (Action)

1. After selecting “START,” you will be prompted to select a setting (action).
2. Stoelting’s Rodent Warmer has three operational settings (action):
  - a. Animal Select
  - b. Countdown Timer
  - c. Thermal Probe
3. Use the control dial to scroll through the settings (action).
4. Once the appropriate setting (action) is highlighted, press down on the control dial or press the “START” button to select.



### Control Dial

Use the control dial to scroll through actions. Once the appropriate action is highlighted, either press down on the control dial or press the “START” button to select.



## Animal Select

1. Animal select contains default body temperatures for various species:

- a. Mouse – 37.2°C
- b. Rat – 37.5°C
- c. Hamster – 37.5°C
- d. Guinea Pig – 39.5°C
- e. Rabbit – 37.7°C
- f. Neonatal – 37.3°C
- g. Ferret – 37.5°C
- h. Other – 37.2°C



Note: Default temperatures are based on AALAC values and do not reflect temperature variations between individual animals

2. Use control dial to scroll to preferred animal
3. Select animal by pressing control dial or “START”
4. After the animal is selected, the following screen will appear



### Screen Options:

- SETPOINT – Desired temperature
- PAD TEMP – Temperature of heating pad
- PROBE TEMP – Temperature of thermal probe (optional)
- SET TIME - Timer

5. To change temperature in “Animal Select” mode:
  - a. With “SET” point highlighted, use the control dial to change the temperature
  - b. Turn the knob clockwise to increase temperature; Turn the knob counterclockwise to decrease temperature
  - c. Once the desired temperature is achieved, press down on control dial
  - e. The maximum temperature is 45°C
6. “Animal Select” contains a default Set Time of 1:00:00
7. To change Set Time in “Animal Select” mode:
  - a. Press “START” button
  - b. When “SET” time is highlighted, use control dial to adjust time setting
  - c. Turn the knob clockwise to increase temperature; Turn the knob counterclockwise to decrease temperature
  - d. Once the desired time is achieved, press “START” to initiate warming.

## Countdown Timer

1. To change Set Time in “Countdown Timer” mode:
  - a. Press “START” button
  - b. When “SET” time is highlighted, use control dial to adjust time setting
  - c. Turn the knob clockwise to increase temperature; Turn the knob counterclockwise to decrease temperature
  - d. Once the desired time is achieved, press “START” to initiate warming.

## Thermal Probes

The Rodent Warmer has 2 feedback systems:

1. Pad Sensor (Heating Pad)
2. Probe Sensor (Rectal Probe)

These sensors provide real time feedback of the heating pad and rectal probe.

\*Note: Using a rectal probe is optional and is not necessary for the Rodent Warmer to function.



## Using the Rodent Warmer Without Rectal Probe

When the rectal probe is not being used, the thermal probe is not connected and the Rodent Warmer will maintain the Setpoint temperature.

## Using the Rodent Warmer With Rectal Probe

1. Connect the Rectal Probe to the Probe Connection
2. Set the Setpoint Temperature
3. Set Timer



Probe Connection



With the rectal thermal probe connected, the heating pad will heat the animal until the rectal probe (animal) reaches SETPOINT. Once achieved, the heating pad will cool down to 2°C below SETPOINT, but will maintain that temperature. If the animal cools to Setpoint -2°C, the heating pad will heat back up to SETPOINT temperature.

## Product Specifications

Temperature control range: 24-45°C

Temperature resolution: 1%

Warming pad connector: 4-pin locking DIN

Warming control box power: 24VDC @ 3A max

Power requirements: 120/240VAC (switchable, 50/60Hz, 75VA)

Control box dimensions:

Heating pad dimensions: Varies based on model number

Rectal thermal probe: Tip: 0.62in/1.6mm; Total Length: 27.5in/70cm

## Ordering Information

Product Number	Description
53800M	Stoelting Rodent Warmer with Mouse Heating Pad
53800R	Stoelting Rodent Warmer with Rat Heating Pad
53800C	Stoelting Rodent Warmer with Cage Heating Pad

## Accessories

Product Number	Description
53801	Stoelting Rodent Warmer Control Unit
53810	Mouse Heating Pad, 7x7cm for 53801
53812	Rat Heating Pad, 15.25x15.25cm for 53801
53814	Cage Heating Pad, 16x38cm for 53801

\*Custom pad size available upon request. Please contact Stoelting at 1-800-860-9775.

## Cleaning

The warming pads can be cleaned using alcohol or other common sterilizing agents. Do not immerse the pads in water.

Servicing

For servicing, the control box, temperature pad and power cord should be returned to Stoelting headquarters located in Wood Dale, IL, USA. The minimum cost for servicing is \$100.00; however, additional costs may be incurred depending on the condition of the equipment. Upon receipt, the instrument will be evaluated and a final estimate provided prior to initiation of any repairs. The approximate time to complete repairs is 7-10 business days. Please contact [Returns@StoeltingCo.com](mailto>Returns@StoeltingCo.com) to request a Return Materials Authorization (RMA) prior to returning any equipment to Stoelting Co. All items returned without an RMA will be returned to sender.

Warranty

Stoelting warrants its products against defects in materials and workmanship according to the following schedule:

ITEM	WARRANTY PERIOD	
	Materials	Labor
ELECTRONIC CIRCUITRY (microprocessors, resistors transistors, integrated circuits, etc.)	1 YEAR	1 YEAR
MECHANICAL AND ELECTROMECHANICAL PARTS (meters, switches, etc.)	1 YEAR	1 YEAR
ELECTRODES, FILAMENTS, CABLES, AND ALL OTHER ACCESSORIES	30 DAYS	30 DAYS

Stoelting will, at its option, repair or replace defective items within the specified warranty period. Modifying or tampering with the instrument or non-factory authorized service during the warranty period will invalidate the warranty. Shipping costs both to and from the Stoelting Repair Department will be borne by the customer.

**THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. STOELTING SHALL NOT IN ANY EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OR MISUSE OF ITS PRODUCTS.**

## Contact Information



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