



Molecule to Man Imaging

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Product Definition:

Stand alone temperature regulation system

Animal body temperature is extremely important for the well being of the animal before during and after experimentation. The stand alone temperature regulator is specifically designed to regulate the animal's temperature before, during and after imaging experiments. This product allows regulation of animal temperature through a heating mat placed under the animal. Selecting a preset heat from heater mat controller, the heater will pass small amounts of current through the heater mat to gently warm the animal. Once the desired temperature has been reached, the heater will automatically switch off and turn on automatically when the surface temperature of the mat drops below the set point. *This device is not intended for human use.*

Customers may also wish to use this product in conjunction with our animal handling solutions and BioVet physiological monitoring system – further information is available on our website www.m2mimaging.com.

Inclusions

- Heater Mat Controller
- Medical grade power supply
- 2 x heating pad (suitable for rat and mouse)
- Interface cables
- Manual

Product Overview

The stand alone temperature regulation unit is controlled through the heater mat controller. Figure 1 shows the heater mat controller unit and large heater mat (suitable for rats). Set temperature and actual temperature are displayed on the LCD screen.

This product is suitable for many preclinical imaging environments for use during acquisition within the field of view.



Figure 1: Heater mat controller and large heater mat



Product Hardware Specifications

	Parameter	Specifications
LCD Display	LCD display characteristics	Top line Set Point, Mat temperature
		Bottom line: Control display for Temperature and Temperature Scale (°C, °F, °K) setting.
Temperature control (Heater Mat Controller)	Set points	26°C, 28°C, 30°C, 32°C, 34°C, 36°C, 38°C, 40°C
	Accuracy Range	+/- 0.5°C on all set points 26-40°C
	Heating element (2 included)	Mouse Heater 30.5mm x 92.7 mm. Rat Heater 73.7mm x 146.0mm.
Power (supplied - designed for medical applications)	EMI	FCC Class B, EN55011 Class B
	Output	Output 12 Volts, 30 Watts.
	Safety	UL2601-1, IEC60601-1, CSA22.2 No. 601.1
	Input frequency	47 to 63 Hz
	Input voltage	83 to 264 VAC

Table 1: Hardware specifications



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Contact

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m2m Imaging Corp is an ISO9001 and ISO13485 certified manufacturer.



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