



Kane Poly Heat Mats **How They Function With & Without Controls**

The Kane PHM (Poly Heat Mat), all sizes, **with or without a Kane cover or control**, in an unheated enclosure provides sufficient warmth for your pet taking the following into consideration. The mat will run 37° above ambient temperature. If it is 0°F in the enclosure the mat will run up to 37° with or without the Kane cover and “no” pet on the mat. Where the pet lies on the mat, the temperature will rise where the body covers the mat and will continue to rise until the pet moves. We need to make sure the pet is able to move off the mat in the event it gets too warm. IE: You rest on a heating pad for an extended period of time and after a while it becomes uncomfortable so we get up off the pad. Nothing wrong with either you or the pad but eventually relief from the constant unmanaged heat may be necessary. After a while you go back to the heating pad. Same concept applies with the poly heat mat. Keep in mind that the surface area of the mat which the pet is not lying on will be cooler and the pet will move to different areas of the mat similar to you being warm in the spot you are lying in bed and move to where the sheets are cooler.

The HMR300 Rheostat works similar to a dimmer switch. At the low setting on the HMR300 the power provided to the mat is 65 volts which causes the mat to run 22-23° F above ambient temperature. The results from using the rheostat set on low is that the mat will not heat up as fast allowing the pet to lay on the mat for a longer period of time before it may need to move.

The RP235 thermostat, with **external sensor**, will provide the ability to set the mat temperature between 68° and 95°. The external probe will read the ambient air temperature, if not attached to the mat and provides some ability to manage the heat mat surface temperature. Applying the sensor, most often with duct tape, to hold it in place and the addition of the Kane cover works well also to keep the probe out of the pet’s site, reach and provides a more effective management tool as the probe is reading mat surface temperature not ambient air.

“Best Management Option”

The HMT-350 Electronic Temperature Controller, with **sensor installed inside the heat mat**, is a thermostatic control device designed for safe and effective heat mat surface temperature management. The control allows users to select and maintain the ideal temperature for various species of Animals/Pets. This state of art controller will maintain any pre-selected temperature between 40°F and 105 °F.

The HMT-350 thermostat incorporates several unique self-activated safety mechanisms as well. One unique safety mechanism is our high limit setting that self-activates and is relative to the set point of 105°F.

NOTE: A control is highly recommended when the ambient temperature of the area a mat is installed is 40° constant or above.