

## Product specification: Helix Radiant Heat Panels

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**Product Operation:** Low-profile, non-light emitting, infrared heat panels have one non-porous radiating surface and they are designed to be mounted to the underside of the cage roof or behind a perch or shelf and there are provisions for hanging the panel also. These high grade panels provide a uniform heat over a larger area without a focused hot spot as with heat lamps or ceramic emitters. Helix Panels are suitable for indoor, as well as outdoor use.

Infrared heaters heat objects with mass more than air temperature, however the panel's radiant surface and other resulting heated objects, will heat the air in enclosed environments. The radiant surface at an approximate distance 15" to 22" allows reptile basking conditions 85-95F in an enclosed cage with 72 degree F. ambient temperature. Helix Panels are designed to out-perform and out-last all other heat sources by many times. Having the panel mounted inside the enclosure, 100% of the heat produced is kept inside the environment offering more efficient use of power.

**Note:** Helix Panels have a safe, limited, surface temperature, however, they are un-regulated heating devices. We recommend using a high quality thermostat, especially if the panel is to be used in an enclosed environment. A Helix Proportional Thermostat, such as the DBS-1000 will ensure the proper temperatures are always maintained, and to also prolong the life of any and all resistive heat sources they control.

**Panel description:** A white high-impact styrene shell and a non-porous high-temperature fiberglass radiant surface are bonded together, and sealed, producing a water resistant product that can be bleached or even power washed. (Always unplug before cleaning). The heating element inside every Helix Panel is a very reliable, and an extremely long lasting (40-50 yr) industrial product. The panel's surface temperature at full power is limited to approx. 190 -212 degrees F and will not burn you or your animal on short term contact. All panels have a 16 gauge, two conductor power cord (no metal parts requiring a ground). The AC Plug \*\*\* is detachable, so that the power cord can be passed through a small hole drilled into the cage's wall or ceiling, before the AC plug is attached.

(4) Size's are currently available:

Mini, 11" x 11" x 1.5", 28 watts, 121 sq in area. \*\*(NEW)\*\*

Small, 11" x 16" x 1.5", 53 watts, 176 sq in area.

Medium, 11" x 30" x 1.5", 109 watts, 330 sq in area.

Large, 11" x 40" x 1.5", 162 watts, 440 sq in area.

\*\*Wattages are approx. within 2% or so.

**Note:** After weeks or months at approximately 80-100% of full power, the panel's radiant surface can be expected to "golden-up" in color. This is normal and will not affect the performance, safety or integrity of the product. Adding supplemental heat under the tank, or interior shelve so that the desired temperature is maintained with less power to the panel will help prevent discoloration. \*\* Each panel is 100% tested and run for a few hours at full power before shipment. Depending on the freshness of materials used, there may still be a "out-gassing of resin fumes".

**Suggestion:** Run the panel face up or out, at 100% power, outside or with a fan blowing on it, to complete out-gassing process prior to installation and / or adding animals.

\*Available with HD Cord and water-proof strain-relief and molded plug.

\*\*\*A separate High Quality, UL listed (#351B), CSA Listed (LR2081) "Snap-On Super Plug" is supplied, along with some panel mounting hardware. Complete instructions are included.

**Power requirements:** 110-125 Volt AC, 50-60 Hz. \*\*Special 220 Volt Euro-model's available for Europe only. 01-2010