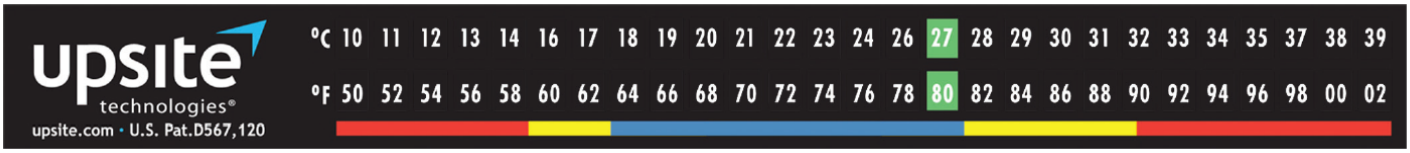
TEMPERATURE STRIP



HotLok Temperature Strip is made from liquid crystal material. The temperature strip shows temperatures in ranges of green, brown, and blue. The actual temperature is indicated when the liquid crystal material is green. If green is not visible on the Temperature Strip, the actual temperature will be the number between the brown and blue colors.

The colored range indicators denote the following:

- Blue: Optimal Operating Range based on recommendations as updated in ASHRAE's 2008 Environmental Guidelines for Datacom Equipment
- Yellow: Acceptable Operating Range based on equipment manufacturers' recommendations for Class 1 IT equipment
- Red: Outside acceptable operating range—indicates a definite hotspot above 90°F (32°C) or potential for condensation below 59°F (15°C), either of which may result in equipment failure

Part No.	Description
GLHL10009CP	Overall size 10"L x 1"W; Adhesive
GLHL10125P	Overall size 10.6"L x 1.1"W x 0.4"H; magnetic

Each product comes in a case pack of 10

FEATURES

- Range in both Celsius and Fahrenheit temperature scales
- Fahrenheit Scale: 50°F to 102°F in increments of 2°F
- Celsius Scale: 10°C to 39°C in increments of 1°C
- Accurate to within +/- 1°C.
- Calibrated in accordance with the American Society for Testing and Materials (ASTM) Standard E 1061-94 using equipment

BENIFITS

- Identifies hot and cold spots within minutes of application and at a glance thereafter
- Improves uptime by early identification of trouble areas
- Color-code based on ASHRAE standards indicates potential hot spots in a glance
- Supports airflow management practices resulting in improved capacity and reduced operating expenses
- Attachs using non-permanent mounting methods for reuse in other locations

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Adhesive


Magnetic

INSTRUCTIONS FOR USE

HotLok® Temperature Strips most accurately show IT air intake temperatures when placed as close to IT equipment air intakes as possible. Place them in any location desired, but not in a location that will impede airflow to the IT equipment. IT equipment intake temperatures will be most consistent if airflow management (AFM) best practices are followed. The most important AFM practices that relate to cabinets are: all open spaces in cabinets filled with blanking panels, all spaces between mounting rails and cabinet sides sealed and all spaces under the cabinet are sealed.

- The highest IT equipment intake air temperatures are often found at the tops of cabinets and adjacent to open spaces in cabinets. Occasionally high intake air temperatures are also found at the bottom of cabinets when hot exhaust air is being drawn under the cabinet. Placing a HotLok Temperature Strip in these problematic areas will help to identify the highest intake air temperatures.
- Cold spots are most often found at the bottom of cabinets. If conditioned supply air temperatures are colder than the lower limit for intake air temperatures then cold spots are likely. Intake temperatures at the bottom of cabinets should be checked for cold spots.
- To get the most accurate reading for Part No. 10009, peel the paper to reveal the adhesive on the ends of the temperature strip. Apply the strip so it bends slightly with the middle section not touching any surface. (See Image 1) For Part No. 10125, adhere the magnetized airflow platform(s) to one or more locations on the cabinet. (See Image 2)
- The box around temperature number on the HotLok® Temperature Strip will turn green, brown, and blue. The actual temperature is indicated when the liquid crystal material is green. If green is not visible on the strip, the actual temperature will be the number between the brown and blue.
- Any intake air temperature greater than 27° C or 80.6° F is considered a hot spot. Steps should be taken to provide more conditioned air to this location to increase IT equipment reliability.
- Any intake air temperature lower than 18° C or 64° F is considered a cold spot. Steps should be taken to increase air intake temperatures to improve equipment reliability.

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