

Black Vortex MB074SP-1B

Hard Drive Temperature Test

Visit [MB074SP-1B Product Page](#)



How temperature affects your hard drive life span?

According to National Instruments -“The condition that has the biggest impact on the life of a hard drive is temperature. Heat decreases the life of the hard drive head. A 5 °C increase in temperature could reduce the life of a hard drive by up to two years.

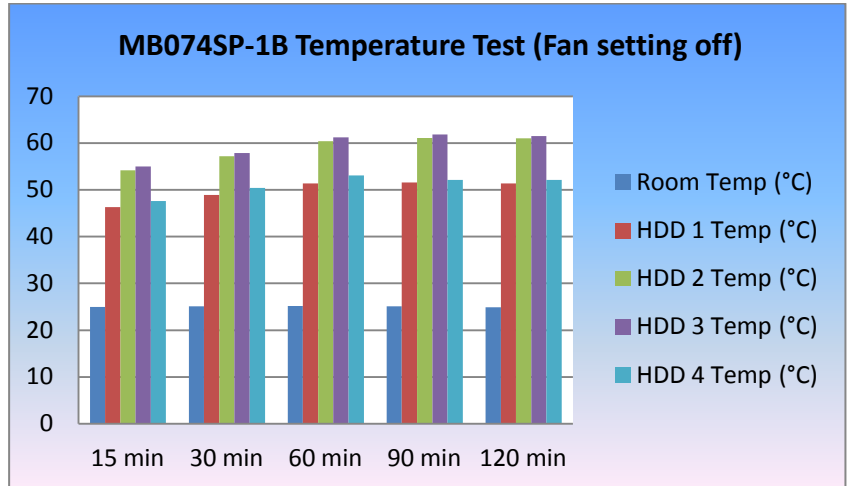
Heat also reduces the fly height of the hard drive head, which can cause the head to make contact with and damage the media. If your system will be operated in an environment with a minimum ambient temperature less than 5 °C and/or a maximum ambient temperature greater than 50 °C, you must select a hard drive with an extended operating temperature range. These hard drives include components designed for reliability in low and high temperature extremes.” – For more info please click [HERE](#)

Hard drive temperature test result is in the next page -->

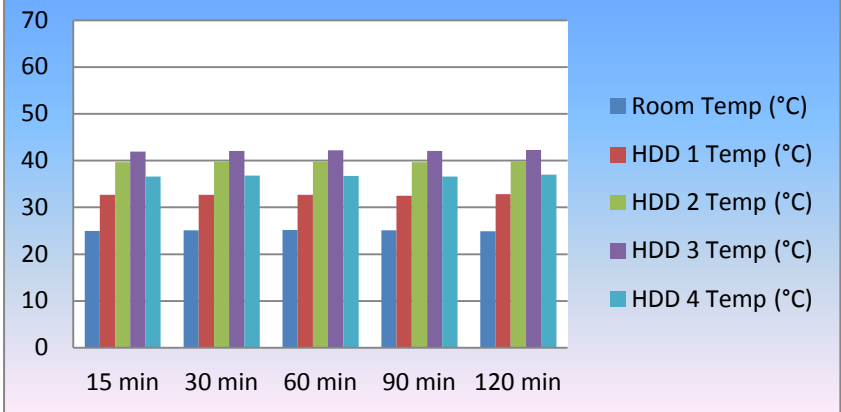
Hard drive temperature test with Black Vortex MB074SP-1B

Drive temperature test with MB074SP-1B fan setting off

The maximum drive temperature has reached 60°C. **We do not recommend turning off the fan as the ideal hard drive working temperature is below 50°C.**



MB074SP-1B Temperature Test (Fan setting low)

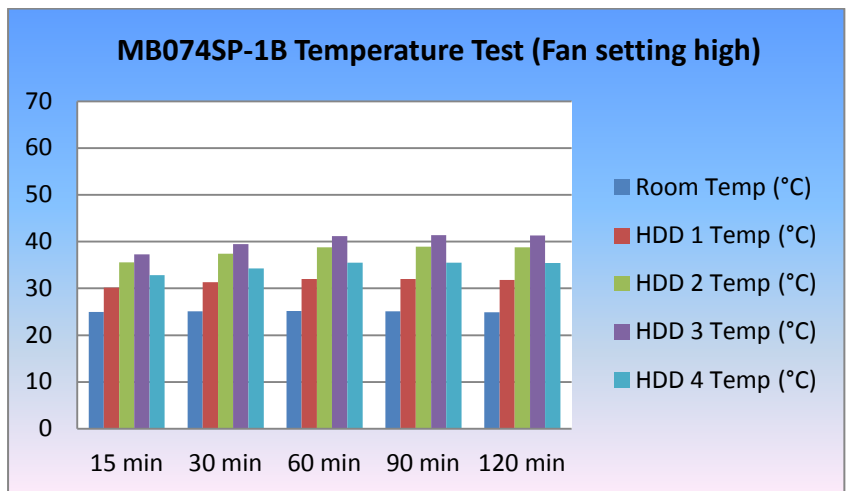


Drive temperature test with MB074SP-1B fan setting low

The MB074SP-1B keeps the drive's temperature at 40-45°C during the drive stress test. **This is the ideal setting for most of the users.**

Drive temperature test with MB074SP-1B fan setting high

The MB074SP-1B keeps the drive's temperature close to 40°C. **This is the recommended setting for faster RPM hard drives such as WD Raptor 10K RPM hard drive.**



Test Hard Drives Models

HDD 1	WD Black – WD6402AAEX 640GB
HDD 2	Seagate – ST3000DM001 3.0 TB
HDD 3	WD Black – WD2002FAEX-007BA0 2.0 TB
HDD 4	Seagate – ST32000641AS 2.0 TB