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Apple 500MB Hard Drive: Specifications (3/93)

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TOPIC -----

What are the technical specifications of the internal 500MB hard disk for the Macintosh.

DISCUSSION -----

The specifications for the 500MB Hard Drive are as follows:

Capacity

Formatted Data Capacity:	500 MB
Data Surfaces:	4
Heads:	8
Block Size:	512 bytes

Performance

Average Seek Time:	12 ms NOC (Nominal Operating Conditions)
	15 ms WOC (Worst Operating Conditions)
Data Transfer Rate:	Up to 10.0 MB/sec (Asynchronous)
	Up to 5.0 MB/sec (Synchronous)
Startup:	20 sec WOC
Spindown:	25 sec WOC

Must operate equally well in any orientation

Physical

Form Factor:	3.5 inch
Weight:	1.5 lb
Dimensions:	150 x 102 x 25.4 mm

50 Pin SCSI Connector

Environmental

Temperature

- Operating 5 degrees C to 55 degrees C
- Non-operating -40 degrees C to 65 degrees C

Relative Humidity: 10 to 90%, operating, non-condensing
5 to 95%. non-operating, non-condensing

Altitude

- Operating 0 feet to 10,000 ft
- Non-operating 0 feet to 10,000 ft

Vibration peak levels:

- Operating 1.0 g 5 to 300 Hz, with no errors
- Non-operating 2.0 g 5 to 500 Hz, with no damage allowed

Shock levels

- Operating 10 g with no errors
- Non-operating 60 g & 60 ips

Power Requirements

Voltage 5V DC with tolerance of +/-5%
12V DC with tolerance of +10%/-8%

Power Draw:

- Startup 13.0 watts (avg.)
- Idle 8.0 watts (avg.)

- Access 10.0 watts (avg.) during combination duty cycle of
40% W/R, 40% seek, 20% standby.
- Peak Current <.7 amps on 5V, <1.75 amps on 12V

Termination power is provided through pin 26 of the 50 pin SCSI connector.

Article Change History:

22 July 1993 - Reviewed for technical accuracy.
19 March 1993 - Updated to include additional specifications.
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