



# Tech Info Library

## Macintosh 400K Disk Drive: Specifications (Discontinued)

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### I. Capacity

A. Unformatted disk space	437.5 K bytes
B. Formatted disk space	409.6 K bytes
C. Burst TRANSFER RATE	489.6 K bits per second

### II. Access time

milliseconds

A. Track to track	15
B. Average*	415
C. Settling time	15
D. Head load time	60
E. Average latency	50

\* Average access time =  $1/3 \times (\text{Track Nos.}) \times (\text{Track to track}) + (\text{Settling Time})$

### III. Functional

A. Rotational speed(s)	394, 429, 472, 525, 590 RPM
B. Recording density (inside track)	7610 BPI
C. Track density	135 TPI
D. Cylinders	80
E. Tracks	80
F. R/W heads	1
G. Encoding method	APPLE GCR
H. Component life	5 years
I. Media life	over 3 million passes track
H. Diskette Interchange	20,000 times minimum
J. Soft Read Error	1 per billion bits read
K. Hard Read Error	1 per trillion bits read
L. Seek Error	1 per billion seeks

### IV. Heat Dissipation

A. Operating mode (head load)	7.5 W
B. Standby mode	3.3 W

### V. Physical Dimensions

inches millimeters

A. Height	2.0	51
B. Width	4.0	102
C. Depth	5.1	130

pounds grams

D. Weight	1.5	65
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#### VI. Power requirements

A. +12 Volts DC +/-5%	0.1V p-p	Max Ripple 0.1 V (max)
B. +5 Volts DC +/-5%	0.05V p-p	Max Ripple 0.1 V (max)

#### VII. Environmental limits (Operating)

	degrees	
	Fahrenheit	Celsius

A. Temperature	40-140	5-45
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B. Humidity	20% to 80% relative humidity (no condensation)	
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