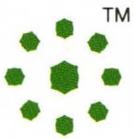


NOV 14 1989

Born to run

5.25 inch Half-Height DISK DRIVES

FIELD PROVEN MTBF 140,000 *ph*



TM

Microscience TM

HH-1050, most reliable, high performance disk drive in its class!

MICROSCIENCE gets it all together with greater reliability, more capacity, high speed and lower power consumption.

We designed and manufactured the *first* Half-Height 5.25 inch Winchester Disk Drive and we *still* build them to *last*.

- Voice Coil Technology
- 5ms track to track seek time
- Automatic carriage lock
- Dynamic spindle brake
- Closed loop dedicated servo
- Dedicated head landing zone
- ST506 Interface
- 44 Mbytes-formatted capacity
65 Mbytes-RLL
- 28ms average positioning time



**NOW BACKED BY A
2 YEAR WARRANTY**



Microscience™ 5.25 inch Half-Height High Performance Winchester Disk Drive Specifications

Model No.	HH-1050	HH-1060	Model No.
Capacity Unformatted	53.3 Mbytes	80.0 Mbytes	Capacity Unformatted
Capacity Formatted Per sector Sectors per track	44.6 Mbytes 512 bytes 17	65.5 Mbytes 512 bytes 26	Capacity Formatted Per sector Sectors per track
Data Transfer Rate	5 Mb/s	7.5 Mb/s	Data Transfer Rate
Seek Time (incl. settling) Track to track Average Maximum	5 ms 28 ms 60 ms	5 ms 28 ms 60 ms	Seek Time (incl. settling) Track to track Average Maximum
Functional Specifications Recording density Track density Cylinders per surface Platters Read write heads Servo heads Recording code Typical power dissipation	9,957 bpi 960 tpi 1,024 3 5 1 MFM 14 watts	14,936 bpi 960 tpi 1,024 3 5 1 RLL (2,7) 14 watts	Functional Specifications Recording density Track density Cylinders per surface Platters Read write heads Servo heads Recording code Typical power dissipation
Interface	ST506/412	ST506/412	Interface

GENERAL SPECIFICATIONS:

Reliability Specifications

MTBF (typical usage)	140,000 poh
Preventive maintenance	none
Component life	5 years
Error rates:	
Soft read errors	1 in 10 ¹⁰ bit read
Hard read errors	1 in 10 ¹² bit read
Seek errors	1 in 10 ⁶ seeks

Environmental limits (operating)

Ambient temperature	50° to 122°F (10° to 50°C)
Relative humidity	8% to 80% non-condensing
Wet bulb, maximum	78°F non-condensing (25.5°C)
Altitude	0 to 10,000 ft.
Vibration	5 to 13.77 Hz, .036 in. p-p 13.77 to 500 Hz, .35 G pk
Shock	10G, 11 ms

Mechanical Dimensions

Height	1.625 in.
Width	5.750 in.
Length	8.000 in.
Weight	4.6 lb.

Power Requirements

DC voltage	+ 12 volts ± 5% @ 0.7A typical 2.3A starting + 5 volts ± 5% @ 0.5A typical
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Environmental Limits (non-operating)

Ambient temperature	-40° to 140°F (-40° to 60°C)
Relative humidity	8% to 80% non-condensing
Wet bulb, maximum	78°F non-condensing (25.5°C)
Altitude	0 to 10,000 ft.
Vibration	5 to 14.77 Hz, .047 in p-p 14.77 to 500 Hz, 5 G pk
Shock	40 G, 11 ms

Safety Approvals

UL, CSA, TUV

Average Latency 8.33 ms

DISTRIBUTOR:

MICROSCIENCE INTERNATIONAL CORPORATION

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