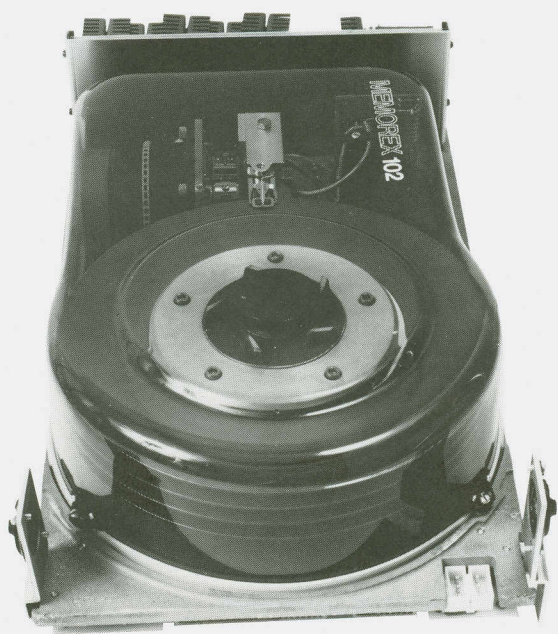


**102 OEM Disc Storage Drive
Future Product Information**

Committed to supporting the OEM market with the highest quality products, Memorex is continually researching and updating its products to incorporate the latest technology. Although the Memorex 101 OEM Disc Storage Drive is the standard of value in the eight inch disc drive marketplace, we are improving that design even further. The larger capacity Memorex 102 disc drive will soon be available through your Memorex representative.

A lightweight, compact, disc storage drive, the Memorex 102 has 23.4 megabytes of capacity. It is intended for a broad range of applications requiring a cost-effective, highly reliable, low maintenance unit.

The third in the Memorex family of eight inch fixed disc drives, the 102 features four fixed discs and eight read/write heads. A sealed Head Disc Assembly (HDA), that is manufactured in a clean room environment insures drive reliability that sets a standard of value for the industry.



MEMOREX

**102 OEM Disc Storage Drive
Future Product Information**



**102 Disc Storage Drive
Advantages****Sealed Environment**

A carefully designed sealed environment protects the head, media, actuator, and spindle from contamination and utilizes an absolute filtration system inside the enclosure.

Disc Coating Characteristics

Oxide particles in the coating are circumferentially aligned to provide high signal output and high resolution. Memorex 100X coating surface shield extends the useful disc life over 100 times the life of discs not coated.

Easy Serviceability

By integrating the drive motor with the hub, we have eliminated belts and lowered parts count which increases reliability and saves valuable space. The electronics package mounts to the bottom of the head/disc assembly (HDA) for easy field service access even while the drive is running.

Data Separator

The 102 disc drive receives write data in NRZ code and also transmits read data in NRZ code. NRZ data is MFM encoded and decoded to and from the media by a phase locked data separator in the drive.

Low Power Consumption

Minimal power is required to operate the Memorex 102 which lowers system costs. What's more, only DC power is necessary allowing for international versatility.

**102 Disc Storage Drive
Future Product Specifications****Capacity (Unformatted)**

Drive: 23.4 MB
Per Surface: 2.9 MB
Per Track: 12,000 Bytes

Data Retrieval Times

Track-to-Track Access Time: 19 MS
Average Access Time: 70 MS
Maximum Access Time: 120 MS
Average Latency: 10.1 MS
Transfer Rate: 592.8 K bytes/sec.

Densities

Recording: 6100 Bits per inch
Track: 195 tracks per inch

Dimensions

Width: 8.55 inches
Height: 4.38 inches
Depth: 14.0 inches
Weight: 13 lbs.

Power Requirements

Voltage: +24 VDC \pm 10% @3.5 A
+ 5 VDC \pm 5% @2.5 A
- 5 VDC \pm 5% @250 MA

Environment

Ambient Temperature: 50° to 110°F
Relative Humidity: 10% to 90%

Specifications

Rotational Speed: 2964 RPM
Cylinders: 244
Heads: 8
Physical Sectors
Encoding Method MFM
Index: 1
Sectors: Selectable up to maximum of 4096 bytes/sector
Interface: Low cost, small system compatible

Reliability Specifications

Fixed Disc
MTBF: 8000 hrs.
MTTR: 30 min.
Error Rate
Soft Read Error: 1 per 10¹⁰
Hard Read Error: 1 per 10¹²
Seek Error: 1 per 10⁶

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