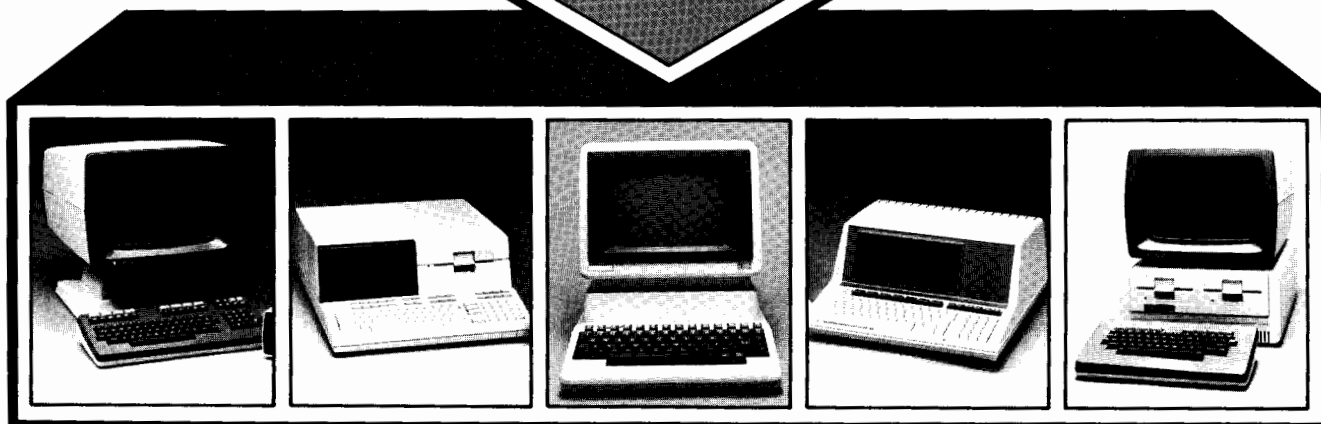
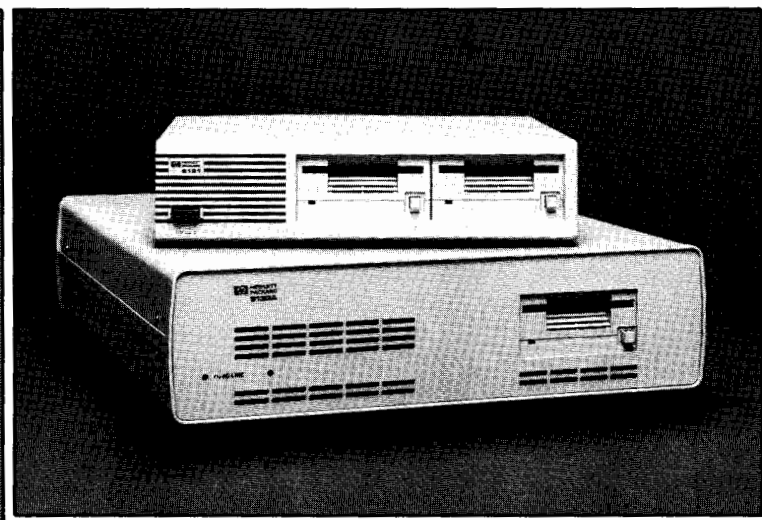
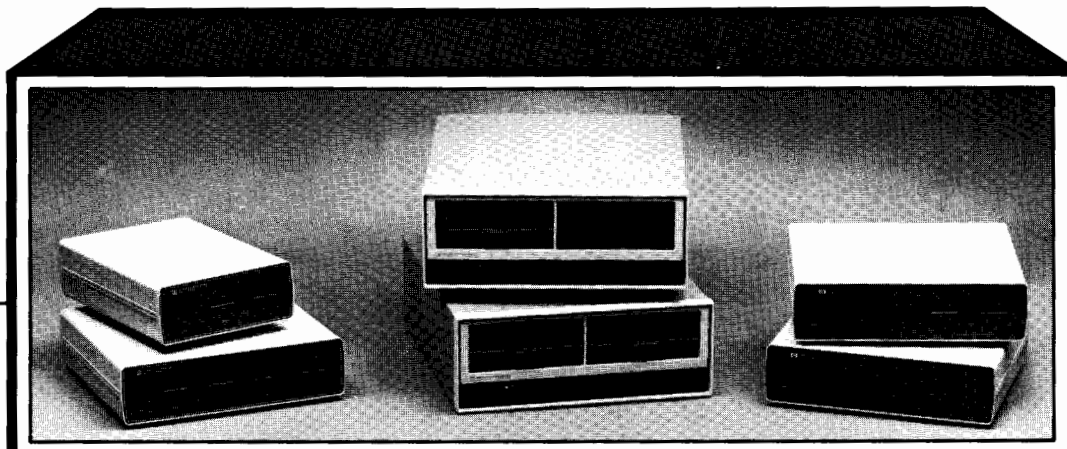


The HP Family of Personal Mass Storage Systems



★Technical Data February, 1983



Hewlett-Packard provides a family of low-cost, random access disc drives, designed to match the power of HP's wide range of computers and your varying application needs.

Featuring HP-IB** interfacing, the HP Family of low-cost 3½", 5¼" and 8" flexible disc drives, and the 5¼" Winchester disc drives, provide fast random access to volumes of information on HP personal, desktop and micro-computers.

The range of disc drives covers the various price, capacity and performance needs of entry-level, data exchange and heavy-usage mass storage applications.

** Hewlett-Packard Interface Bus: Not just IEEE-488, but the hardware, documentation and support that delivers the shortest path to a computer system.

ENTRY-LEVEL

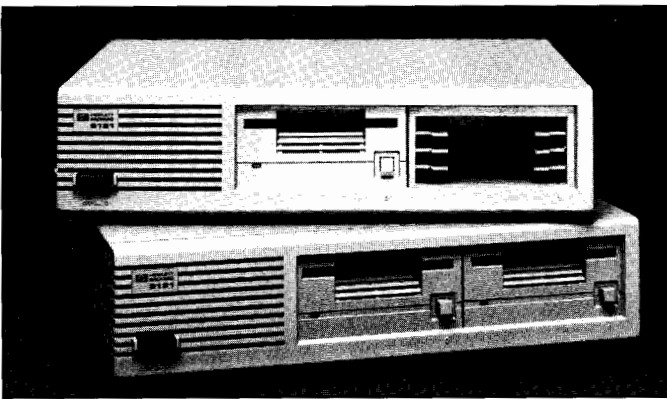
Flexible disc systems combine the speed of random access with low-cost, removable media. These features are ideal for applications which require low-cost, reliable, on-line access, including small business and professional applications such as VisiCalc®, graphics presentations and word processing.

HP's entry-level flexible mass storage systems consist of both a 3½" and a 5¼" family.

3½" FLEXIBLE DISC DRIVES:

9121D DUAL-DRIVE — 540 KBYTES

9121S SINGLE-DRIVE — 270 KBYTES



For use with HP:

- * Personal Computers — Series 80, Series 100
- * Personal Technical Computers — Series 200 (9816, 9826, 9836)
- * Micro-computers — HP 1000 Series A & L

The 3½" flexible disc drives offer a compact entry-level solution with the single drive providing 270 KBytes and the dual drive 540 KBytes of information storage.

The HP 9121D (Dual) and HP 9121S (Single) Flexible Mass Memory peripherals measures only 12.8 inches by 11.2 inches by 3 inches; about the size of an IN-basket. The package fits neatly under the new HP 120 business computer and the new HP Series 200 Model 16 technical computer, making for very compact, integrated desktop system. The floppy will also fit nicely into your shirt pocket.

The 9121D/S offers a unique "Media Protection System" which includes a protective hard cover housing, a contamination shield over the read/write gap, a hard centered disc for precise head placement, and a media monitor for optimum disc life.

Flexible disc life is maximized with HP's exclusive new Media Monitor. The Media Monitor helps eliminate data loss by tracking the disc's age and telling you when to replace it.

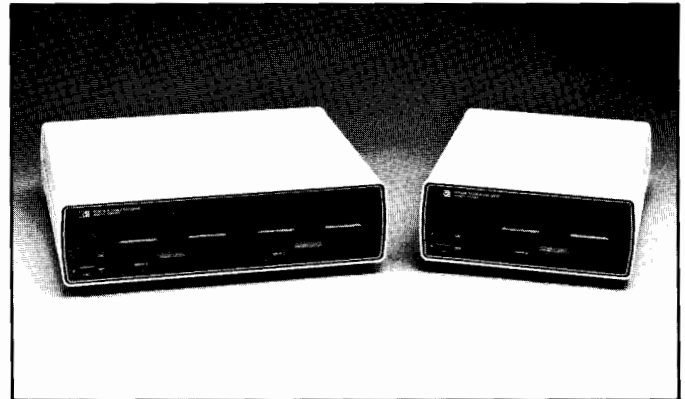
The 9121D and 9121S rotate at 600 RPM and are capable of a sustained transfer rate of 17 KBytes (system dependent).

The 3½" floppy mass storage device is available in both single and dual configurations, with the dual drive providing a convenient low-cost backup device, all in the same unit.

5¼" Flexible Disc Drives

82901M DUAL-DRIVE, 540 KBYTES

82902M SINGLE-DRIVE, 270 KBYTES



For use with HP:

- * Personal Computers — Series 80, Series 100
- * Personal Technical Computers — Series 200 (9816, 9826, 9836)

The 82901M and 82902M, 5¼" mass memory unit is the answer for 5¼" compatibility. The capacity is identical to the 9121, with the 82902M (single-drive) providing 270 KBytes of storage and the 82901M (dual-drive) providing 540 KBytes of storage.

These HP 5¼" drives read and write double-sided, double-density format, and provide 187 ms average access time.

The 82901M dual-drive configuration provides vital backup of critical data all in the same unit so you can easily copy discs without the expense of an additional backup device.

* VisiCalc® is a trade mark of VisiCorp.

9130A SINGLE-DRIVE 270 KBYTES



For use with HP:

* Personal Computer — HP 86.

The 9130A Flexible Disc Drive provides random access mass storage for the HP 86 personal computer. Each removable 5¼" disc can store approximately 270 KBytes of user data. A total of 2 units can be added onto the HP 86 in order to provide additional storage and backup.

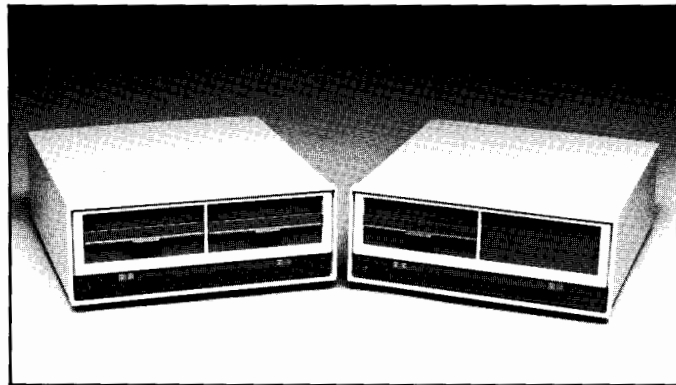
The power and controller functions for the 9130A are resident in the HP 86 enabling HP to provide its lowest cost solution. This HP 5¼" drive is double-sided and double-density.

DATA EXCHANGE

8" Flexible Disc Drives

9895A DUAL-DRIVE, 2.3M BYTES

9895A OPT. 010, SINGLE-DRIVE, 1.15M BYTES



For use with HP:

- * Personal Computers — Series 80, Series 100
- * Personal Technical Computers — Series 200 (9816, 9826, 9836)
- * Desktop Computers — 9825T, 9835, 9845B/C
- * Micro-computers — HP 1000 Series A, L, E, F

The HP 8" flexible disc drives, available in single and dual drives, provide 8" flexible disc media for large file back-up or data exchange, CP/M® standard software or other media-format specific needs.

The 9895A dual-drive provides 2.3M bytes of removable mass storage plus back-up capability all in the same unit. The single-drive, 9895A Opt. 010, is available with 1.15M byte capacity.

The 9895A reads and writes double-sided, double-density format on HP media. Fast access of 179 ms and transfer speeds up to 25K bytes/sec improve system performance in most applications.

Data exchange with other HP and non-HP systems is possible through the 9895A as it can read and write industry-standard IBM 3740 single-sided, single-density format for those mainframes with IBM utility software.

*CP/M is a registered trademark of Digital Research Inc.

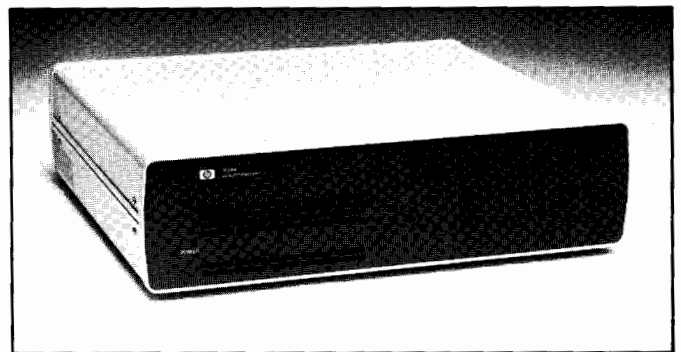
HEAVY-USAGE

5¼" Winchester Disc Drives

On-line, heavy usage applications need the high-speed transfer rates, fast random access and large capacities of the HP 5¼" Winchester Mass Storage Systems.

These Mass Storage Systems provide 4.6 Mbytes, 4.8 Mbytes or 9.6 Mbytes of formatted capacity to HP computer systems, along with transfer rates of up to 50 Kbytes per second (computer dependent), a drive that is sealed from most contaminants and a product design that can survive noisy line voltages and high vibration environments. The HP 5¼" Winchesters can satisfy the mass storage needs often found in manufacturing, production and other industrial applications.

9134A WINCHESTER



9134A — 4.6 Mbytes (formatted as four 1.15 Mbyte volumes)

For use with HP:

- * Personal Computers — Series 80, Series 100
- * Personal Technical Computers — Series 200 (9816, 9826, 9836)
- * Desktop Computers — 9825T, 9835, 9845B/C
- * Micro-computers — HP 1000 Series A & L

9134A Opt. 010 — 4.8 Mbytes (formatted as one 4.8 Mbyte volume)

For use with HP:

- * Personal Computers — HP 86, 87
- * Personal Technical Computers — Series 200 (9816, 9826, 9836) (requires Basic Extensions 2.0 or Pascal 2.0)

9134B — 9.6 Mbytes (formatted as one 9.6 Mbyte volume)

For use with HP:

* Personal Technical Computers — Series 200 (9816, 9826, 9836)
(requires Basic Extensions 2.0 or Pascal 2.0)

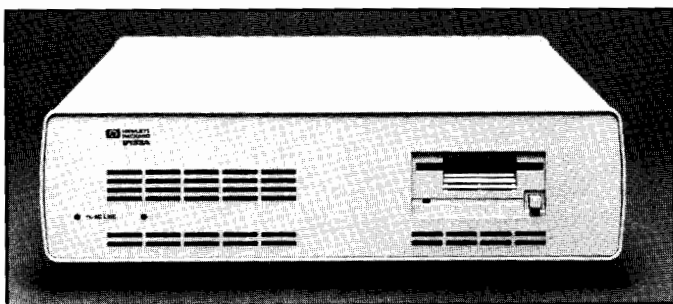
The 9134 Winchester Drives provide large capacity, high performance and heavy duty usage to the broad range of HP's Personal, Technical and Micro computers.

The standard 9134A is designed to emulate an HP 9895A 8" flexible disc so that most HP computers that support the 9895 can also use the Winchester without changing mass storage ROMs, drivers or software.

The 9134A Opt. 010 does not emulate a 9895 and thus provides 4.8 Mbytes in one volume for applications requiring on-line access to large data files.

The 9134B doubles the capacity to provide 9.6 Mbytes of on-line heavy duty mass storage capability for HP's Series 200 line of Personal Technical Computers.

9133 COMBINATION MASS STORAGE SYSTEMS



9133A — 4.6 Mbytes (formatted as four 1.15 Mbyte volumes) plus a 3½" microfloppy with 270 Kbytes of removable storage.

For use with HP:

* Personal Computers — Series 80, Series 100
* Personal Technical Computers — Series 200 (9816, 9826, 9836)
* Micro-computers — HP 1000 Series A & L

9133A Opt. 010 — 4.8 Mbytes (formatted as one 4.8 Mbyte volume) plus a 3½" microfloppy with 270 Kbytes of removable storage.

For use with HP:

* Personal Computers — HP 86, 87
* Personal Technical Computers — Series 200 (9816, 9826, 9836)
(requires Basic Extensions 2.0 or Pascal 2.0)

9133B — 9.6 Mbytes (formatted as one 9.6 Mbyte volume plus a 3½" microfloppy with 270 Kbytes of removable storage.

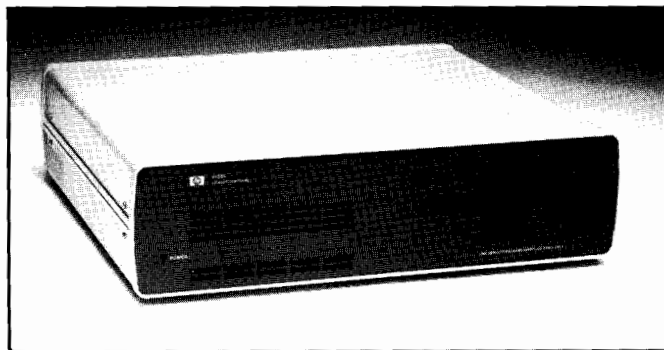
For use with HP:

* Personal Technical Computers — Series 200 (9816, 9826, 9836)
(requires Basic Extensions 2.0 or Pascal 2.0)

The 9133 Mass Storage Systems combine the performance of the 9134 Winchester with a 3½" microfloppy. The Winchester provides high speed, large capacity, heavy duty usage while the microfloppy provides removable storage for loading operating systems, exchanging data among computers and selective file back-up. These units are compatible with our 9121D and S mass storage units.

The new 3½" microfloppy media is small enough to slip into your shirt pocket. A hard plastic housing protects your data from dust and dirt and reduces wear from frequent handling.

9135A COMBINATION MASS STORAGE SYSTEMS



9135A — 4.6 Mbytes (formatted as four 1.15 Mbyte volumes) plus a 5¼" floppy with 270 Kbytes of removable storage.

For use with HP

* Personal Computers — Series 80, Series 100
* Personal Technical Computers — Series 200 (9816, 9826, 9836)

9135A Opt. 010 — 4.8 Mbytes (formatted as one 4.8 Mbyte volume) plus a 5¼" floppy with 270 Kbytes of removable storage.

For use with:

* Personal Technical Computers — Series 200 (9816, 9826, 9836)
(requires Basic Extensions 2.0 or Pascal 2.0)

The 9135A Combination Mass Storage Systems combine the high performance and large capacity of the 9134A Winchester with a 5¼" floppy to provide removable media that is compatible with other HP 5¼" floppy drives.



Ordering Information

3½" FLEXIBLE DISCS

Dual-Drive Master, 540K bytes 9121D
Single-Drive Master, 270K bytes 9121S
Media, HP..... 92191A, Box of 10 discs

Accessories Supplied

9121D, 9121S
Power cord, operator's manual, two fuses, two flexible discs.

5¼" FLEXIBLE DISCS

Dual-Drive Master, 540K bytes 82901M
Single-Drive Master, 270K bytes 82902M
Media, HP..... 92190A, Box of 10 discs

Accessories Supplied

82901M, 82902M
Power cord, one flexible disc per drive, operator's manual,
two fuses.

Accessories Available

Padded Carrying Case 1540-0685
Rack Mount (82901M) 88136F

5¼" WINCHESTER DISCS

4.6M byte Winchester (4-1.15M byte volumes) 9134A
1-4.8M byte volume Opt. 010
9.6M byte Winchester (1-9.6M byte volume) 9134B
4.6M byte Winchester (4-1.5M byte volumes) with 3½"
Flexible Disc Drive Combination 9133A
1-4.8M byte volume on Winchester Opt. 010
9.6M byte Winchester (1-9.6M byte volume) with 3½" Flexible
Disc Drive Combination 9133B
4.6M byte Winchester with 5¼" Flexible Disc Drive
Combination 9135A
1-4.8M byte volume on Winchester Opt. 010

Accessories Supplied

9133A/B, 9134A/B, 9135A
Power cord, operator's manual, two fuses.

9133A/B, 9135A
One flexible disc per drive.

Accessories Available

Rack Mount (9133A/B, 9134A/B, 9135A)..... 88136F

8" FLEXIBLE DISCS

Dual Disc Drive Master
(with Control Board), 2.3M bytes 9895A
Must order appropriate option below for
use with the following mainframes:

HP 9825T Opt. 025
HP 9816/26/36 Opt.026
HP 9835A/B Opt. 035
HP 9845B/C Opt. 045
Series 80 Opt. 085
Series 100 Opt. 125
HP 1000 (E, F, A&L) Opt. 100

Single Disc Drive Master
(with Control Board), 1.15M bytes 9895A, Opt. 010
(Must order appropriate Mainframe Option above.)
HP 3000 (30,33,40,44,64) Opt. 333
50 Hz Line Frequency Opt. 001
Rack Mount (eliminates outer case) Opt. 002
(for mounting on HP rack systems, also
order 30" racking support rails) 12679B
Media (20 8" double-sided flexible discs) Opt. 068
System Software
Utility Software for IBM 3740 Format
data exchange with HP mainframes:
9835/9895 Opt. 135
9845/9895 Opt. 145
HP 85/9895 Opt. 185

Accessories Supplied

Power Cord (1) depends on origin of sale
Users Manual (1) 09895-90000
Flexible Disc (2)
(1 ea — 9895A Opt. 010) see accessories available

Accessories Available

HP-IB Interface Cable 2 m (1) 8120-2718
Drive Accessory (to upgrade a 1 drive
unit to a 2 drive unit) 60Hz ++ 98952A
Drive Accessory (to upgrade a 1 drive
unit to a 2 drive unit) 50Hz ++ 98952A Opt. 001
Rack Mount Kit † 09895-88022
Disc Kit containing 10 double-sided, double-density flexible
discs 92195A

++ In order to insure proper operating performance, these kits should be
installed by a Hewlett-Packard Customer Engineer. For installation by HP
specify Opt. 101.

† For mounting in HP rack systems also order 30" racking support rails —
12679B

Purchase Plans

Contact one of the Hewlett-Packard worldwide sales and
service offices for specific prices and plans in your area.

Warranty & Service

HP peripheral disc products are warranted against defects in material and workmanship for 90 days following date of delivery. HP will repair or replace products which prove to be defective during the warranty period either on-site or at the service center, depending on the computer system with which the product was sold. A copy of the complete warranty statement is available upon request.

HP offers complete service and maintenance worldwide. Maintenance agreements are available for all HP peripheral products. Advantages of these agreements to the customer include a fixed annual cost, individualized cost-effective contracts, a choice of response time, and the option of either on-site or service center repair. Current U.S. rates can be determined by contacting your local HP Sales Office.

The selection and use of media, supplies and consumables is the customer's responsibility. Hewlett Packard reserves the right to exclude from this agreement any repairs for damage to HP products which HP reasonably determines or believes was caused by use of non-HP media. Hewlett Packard will, upon request, repair such damage on a time and material basis.

★ The information and specification presented in this data sheet are subject to change without notice.

For assistance call the HP regional office nearest you: Eastern 301/258-2000, Midwest 312/255-9800, Southern 404/955-1500, Western 213/877-1282, Canadian 416/678-9430. Or write to Hewlett-Packard 3404 East Harmony Road, Fort Collins, Colorado 80525; in Europe, Hewlett-Packard, S.A. 7, Rue Du Bois-Du-Lan, P.O. Box CH-1217 MEYRIN 2 (Geneva) Switzerland; elsewhere in the world, Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, California 94304.