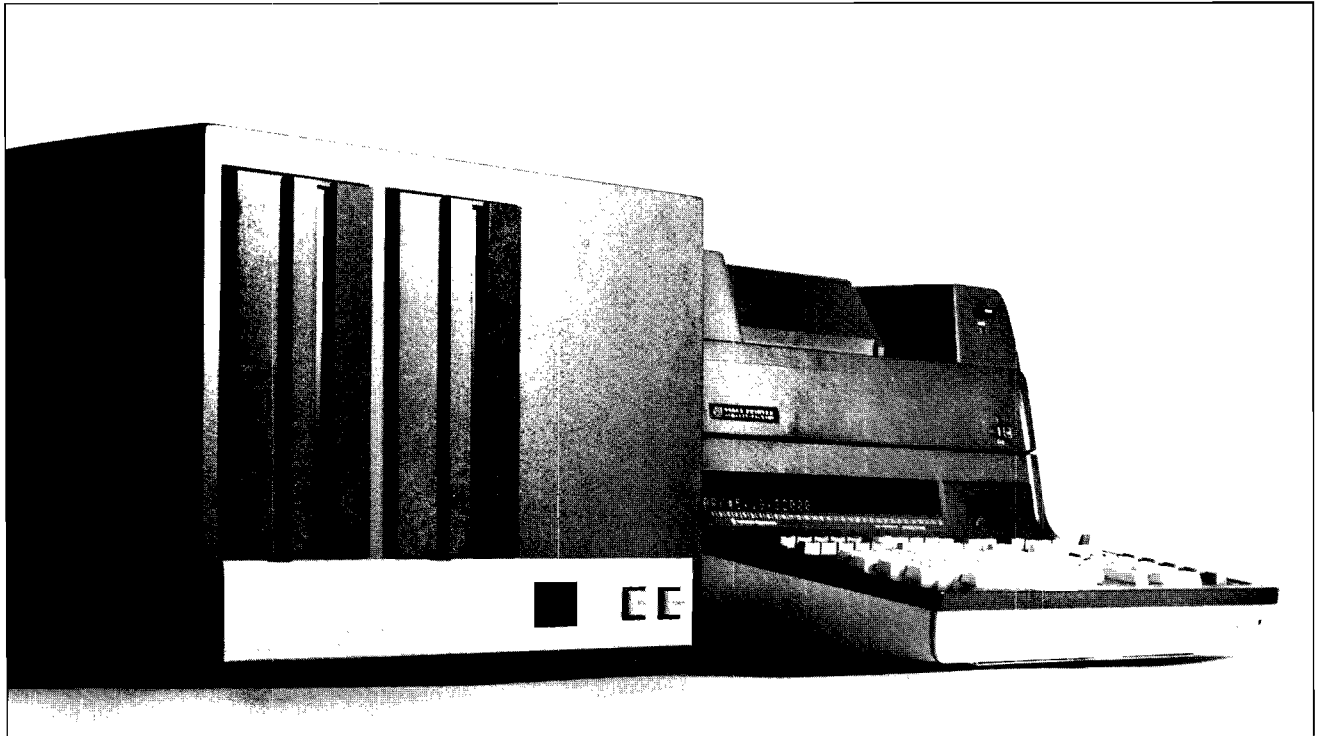


FD 9830

Floppy Disk System



- 1000 Times Faster File Search**
- 30 Times Faster Data Transfer**
- 25 Times Greater On-Line Storage**
- 5 Megabytes System Capacity**
- Stand Alone Duplication and Diagnostics**
- Adds Two I/O Slots**

The extraordinary speed and 1.25 megabyte per disk capacity of the Infotek FD 9830 Floppy Disk System makes practical and economical the application of the *HP 9830 desktop computer in data base oriented tasks. The data transfer rate is over ten times faster than the HP 9880 hard disk system and file access times are comparable. Yes, the system actually will find files some 1,000 times faster than cassette tape and yet, it is 100%

cassette syntax compatible so your existing programs will run on this floppy system without rewrite or additions of new commands.

Unlike other disk systems that put full burden on the host computer, the Infotek FD 9830 has its own processor. Duplication and verification of disks, diagnostics and file management are performed entirely by the floppy. This leaves the computer free to crunch numbers rather than service the Floppy System.

Beyond optimizing number crunching capability for the host 9830, the use of an on-board processor in the floppy system makes possible a number of powerful extra features that go far beyond just storing and retrieving data. These features make the FD 9830 Floppy Disk System an incredible enhancement to the 9830 computer itself. First, the FD 9830 Floppy duplicates and verifies disks, performs numerous diagnostics including media certification, all without taking up any more computer time than it takes to execute a single command.



Infotek Systems

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

FD9830 FLOPPY DISK SYSTEM

Also, the FD 9830 Floppy System self adapts to the single density 305K byte disks used in the Infotek FD-30 Floppy Systems. This allows 100% automatic compatibility between existing disks and the new double density double sided 1.25M byte disks used by the FD 9830. Indeed the FD 9830 will even duplicate from single to double density, single to single and double to double. . .all automatically because the processor looks at the source and destination disks and configures the duplication for you accordingly. A duplication only takes 45 seconds and in the meantime your 9830 computer is available for other tasks.

Still another feature of this new floppy system is its built in I/O Expander. Three standard HP I/O cables may be plugged into the back of the FD 9830 in the same manner as a HP 9868 I/O Expander, so if you're already short on I/O slots, using the FD 9830 will give you a net increase of two for other applications.

The FD 9830 Floppy System comes with a disk of utility programs one of which is a binary routine that automatically inserts into each cassette related statement of an existing program a specified select code. This automatically edited program is then stored on the source or any other select code.

Another utility program dumps a full HP 9880 hard disk to two floppy diskettes for backup and archiving. This is a great reduction in media cost and the process is much faster than a hard disk dup. Moreover, the utility will dump data, programs or both at user discretion. The utility stores the name and location with the programs and data for future transfer back to the hard disk.

The FD 9830 Floppy Disk System is completely compatible with any configuration of the HP 9830 Desktop Computer. It functions by emulating the cassette tape system while providing 1.25 megabyte capacity per diskette. An optional second drive is available in the FD 9830 for a total 2.5 megabytes in a single package. Also, a slave drive unit, the FD 9830S with one or two drives is also available. This allows the use of from one to four drives for a total capacity of from 1.25 to 5 megabytes. The FD 9830 system requires only one select code regardless of the number of drives from one to four. The diskettes, equal to about 25 cassettes each, are selected by the use of a write statement to the assigned select code of the floppy. To shift operation from Disk 0 to Disk 1 on a floppy assigned select code 5, one simply executes:

WRITE (5, X) "UNIT" 1

All other special commands to the floppy for operations like duplication or media verification are issued in the same way, a simple write statement with a straight-forward command in a quote field. Simplicity itself, very fast and convenient.

The storage density and powerful special features of the FD 9830 are complemented by extraordinary speed. The transfer rate for a standard HP 9830 is 10,000 bytes per second. For the Infotek Fast Processor equipped 9830, the transfer speed increases to 30,000 bytes per second. And, file finding covers the disk at an astounding megabyte per second. That's like searching a full cassette in a twentieth of a second.

Listed below are the salient characteristics of the FD 9830 Floppy Disk System.

CAPACITY:

	DISK DENSITY	
	Double	Single
Sides/disk	2	1
Tracks/disk	154	77
Sector/track	32	32
Bytes/sector	256	128
Sectors reserved	6	77

SPEED:

Track-to-track access:	38 milliseconds
Track 0 to track 154:	267 milliseconds
Disk rotation:	360 RPM
Transfer rates:	
10k bytes/sec.	max, standard 9830
30K bytes/sec.	max, FP-30

Find Speed:

1 megabyte/sec	standard 9830
1 megabyte/sec	FP-30

SPECIFICATIONS:

Input power:	60Hz units; 110V; 70VA. (110VA for Dual Drive) 50Hz units; 220V; 70VA. (110VA for Dual Drive)
Temperature:	45° to 110°F (7° to 43°C) operating. 0° to 125°F (-18° to 52°C) storage.
Humidity:	95% relative, non-condensing.
Weight:	44 lbs. (20.0 kg) Single drive. 57 lbs. (25.9 kg) Dual Drive.
Warranty:	Fully warranted for 90 days.
Service:	Service agreement following warranty period is available.
Dimension:	12.5" (31.75 cm) x 17" (43.18 cm). x 21" (53.34 cm).

*HP 9830 is a product of Hewlett-Packard

DATA SHEET WP5M808 PRINTED IN U.S.A.



Infotek Systems

1400 NORTH BAXTER STREET • ANAHEIM, CALIFORNIA 92608 • (714) 956-9300 • TELEX 182283