

HEWLETT-PACKARD

3.5-inch Internal Flexible Disc Drive

Data sheet

Hewlett-Packard now offers a 3.5-inch internal flexible disc drive (HP 45813A) that can be used as a second flexible drive on HP Vectra Personal Computer systems. HP Vectra PC family users can enjoy the benefits of this drive and media:

- It is the ideal second drive for users wanting to standardize on 5.25-inch media while maintaining a bridge to 3.5-inch media.
- The media offers unprecedented reliability for data in a small, high-capacity disc.
- With the 3.5-inch drive, users can easily exchange information with the HP Portable Vectra PC's, the HP Touchscreens, and the IBM PS/2 systems.

You would install the 3.5-inch drive into your Vectra PC just as you would a standard 5.25-inch flexible disc drive. The standard floppy disc controller and cables included with your Vectra PC support the 3.5-inch drive with no hardware changes required. A SETUP program and special software drivers are included that enable all Vectra systems to take full advantage of the drive's multi-format capabilities.

System Requirements

System Hardware

All the models of the HP Vectra PC family support the 3.5-inch flexible disc drive. In addition, the 3.5-inch flexible disc drive comes standard with the HP Portable Vectra CS PC.

Operating System

The most recent Vectra MS-DOS 3.2 (B.01.02) is required to support the high-capacity (1.44 Mbyte) format. Previous versions of Vectra MS-DOS 3.2 (B.01.01) will support the drive but only in a lower capacity mode (720 Kbyte). The following matrix outlines the Vectra MS-DOS support levels for the Vectra 3.5-inch flexible disc drive.

Vectra DOS and 3.5" Format Support

Vectra MS-DOS/Version	710K/720Kbyte Support?	1.44 Mbyte Support?
Vectra MS-DOS 3.1, All versions	NO	NO
Vectra MS-DOS 3.2, Version B.01.01 (US only)	YES	NO
Vectra MS-DOS 3.2, Version B.01.02 and later	YES	YES

SETUP Program

To enable HP Vectra PCs to use 3.5-inch internal flexible disc drives, a recent SETUP program version, which includes 3.5-inch support, is shipped with the drive. This program is used when installing the drive in early Vectra machines which did not include a 3.5-inch setup option.

When the drive is purchased with a new Vectra system, the SETUP program included with the system should be used for installing the product.

3.5-Inch Media

The Vectra 3.5-inch flexible disc drive operates at two different capacities: 1.0 Mbyte unformatted (710 Kbyte or 720 Kbyte formatted) and 2.0 Mbyte unformatted (1.44 Mbyte formatted). Two different types of flexible disc media are required to support these capacities. It is essential that the correct media be used for the chosen capacity (1.0 Mbyte media formatted to 710 Kbyte or 720 Kbyte and 2.0 Mbyte media formatted to the 1.44 Mbyte). The following table outlines the interchange capabilities of the drive.

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Interchange Capabilities

Source/ Destination System (Drive Type)	Read From	Write To	Create Format	Disc Capacities Interchanged
HP Vectra Family PCs (High Density)	YES	YES	YES	HP 710 Kbyte, IBM 720 Kbyte, IBM 1.44 Mbyte
HP Touchscreen (Double-Sided)	YES	YES	YES	HP 710 Kbyte, IBM 720 Kbyte
HP Portable HP Portable + (Double-Sided)	YES	YES	NO	HP 710 Kbyte
IBM PC/XT/AT IBM PS/2 (Double-Sided)	YES	YES	YES	IBM 720 Kbyte
IBM PS/2 (High Density)	YES	YES	YES	IBM 720 Kbyte, IBM 1.44 Mbyte

Specifications

Physical Characteristics

Dimensions	6.7 in. wide x 8.1 in. deep x 1.6 in. high (17.0 cm x 20.6 cm x 4.1 cm)
Weight	2.1 pounds (0.95 kg)

Performance

	1.0 Mbyte	2.0 Mbyte
Operating System	Vectra MS-DOS 3.2, Ver. B.01.01 or later	Vectra MS-DOS 3.2, Ver. B.01.02 or later
Storage Format	80 tracks per side, 9 sectors per track	80 tracks per side, 18 sectors per track
Data Transfer Rate	250 Kbits per sec	500 Kbits per sec
Access Time	6 ms (track to track)	3 ms (track to track)

Interface

- Standard Vectra PC Internal Flexible Disc Controller

Power Requirements

- +5 V, 6.5 W (maximum)
- +12 V, 0.7 W (maximum)

Regulatory Compliance

- UL Listed

Environmental Conditions

- Operating Temperature: 41° to 104° F (5° to 40° C)
- Non-operating Temperature: -40° to 149° F (-40° to 65° C)
- Operating humidity: 20% to 80% (noncondensing)
- Non-operating humidity: 5% to 95% (noncondensing)

Note: Operating temperature and humidity range may vary with data storage media.

Ordering Information

Product Number	Description
45813A	Vectra 3.5-inch Internal Flexible Disc Drive. Includes 3.5-inch mechanism mounted on an adapter tray, utility software, SETUP program on 5.25 inch flexible discs, and Installation documentation.
45813A Opt. 001	Vectra MS-DOS 3.2 Upgrade Kit, version B.01.01 to version B.01.02. Required only for version B.01.01 users. Includes MS-DOS 3.2 version B.01.02 discs on 5.25-inch media, and new effective pages of manual. (Option 001 is available only when purchased with the drive.)
92192A	Box of ten, 3.5-inch, Double-sided, autoshutter, 1.0 Mbyte unformatted discs. (Formats to 710 Kbytes or 720 Kbytes.)
92192X	Box of ten, 3.5-inch, High Density, Double-sided, autoshutter, 2.0 Mbyte unformatted discs. (Formats to 1.44 Mbytes.)

