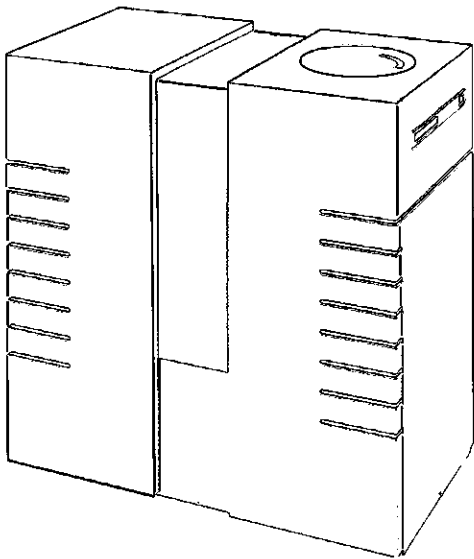


HP SureStore Optical 80fx/160fx/200fx Jukeboxes



- 80/160/200 GB capacities
- Simple, rugged and reliable robotic design
- Outstanding reliability



The HP SureStore Optical 80fx/160fx/200fx Jukeboxes provide immediate access to large volumes of information that are traditionally stored on paper or microfiche.

Superb Performance

Up to four independent drives means fewer disk swaps and more data under-the-head. Online drive replacement allows a drive to be replaced while other drives continue to read and write data, greatly reducing jukebox downtime.

Choice in Numbers of Drives and Optical Disks

80fx: 32 disk capacity, 2 drives
160fx: 64 disk capacity, 4 drives
200fx: 76 disk capacity, 2 drives

Expandability

The Model 80fx is expandable to a Model 160fx or 200fx with upgrade kits, installable on-site.

Solutions Available

HP works closely with leading software providers to offer a full line of integrated software solutions.

Safe and Secure Industry Standard Optical Disks

Widely-accepted 5.25-inch magneto-optical disks are rugged, removable, and provide more than 100 years of archival life, warranted for the life of the media.

Technical Information

Description

Models

200fx 197.6 GB magneto-optical disk jukebox (76 slots, 2 drives)

160fx 166.4 GB magneto-optical disk jukebox (64 slots, 4 drives)

80fx 83.2 GB magneto-optical disk jukebox (32 slots, 2 drives)

Design Characteristics

Jukebox

Average Disk Exchange Time 10 s
(The time it takes to stop reading data on a disk, exchange disks, and begin reading data on another disk.)

HP Optical Drive

2.6 GB Disks

Average Seek	25 ms
Short Seek (across 2.2 MB)	6 ms
Average Latency	10 ms
Average Access Time	35 ms
Effective Access Time*	14.5 ms
Rotational Speed	3000 rpm
Data Transfer Rate (software/system dependent)	
Reads (max. sustained)	3.4 MB/s
Writes (max. sustained)	1.7 MB/s
Burst (synchronous)	5 MB/s
Burst (asynchronous)	3 MB/s
Read/Write Error Rate	<1 per 10 ¹⁴ bytes
Disk Load/Unload Time	
Load (w/spin-up)	5.5 s (avg)
Unload(w/spin-down)	3.0 s (avg)
Buffer Size	1 MB
Read Buffering	Read aheads
Write Buffering	Immed. reporting Write Re-ordering

* Results of 1/3 stroke plus latency over 50 MB-bandwidth.

HP 5.25-inch Magneto-Optical Disks

HP optical disks are engineered to meet and surpass the most stringent industry standards, resulting in the highest levels of data integrity. The type of disks supported depends on operating system and software requirements. Disks listed below are 2.6 GB disks. This product also supports 1.3 GB (read/write) and 650 MB disks (read only).

	Bytes/sector 1024	Bytes/sector 512
Formatted Capacity	2.6 GB (1.3/side)	2.3 GB (1.15/side)
Sectors per logical track	17	31
Logical tracks per surface	75,732	73,077
Order No. - Rewritable Disks (pkg. of 8)	C2589F	C2588F
ISO/IEC 14517 Type R/W		
Order No. - Write-Once Disks (pkg. of 8)	C2591F	C2590F
ISO/IEC 14517 Type WO		

Dimensions

Height	914 mm (36.0 in.)
Width	863 mm (33.9 in.)
Depth	482 mm (19.0 in.)
Weight (Net)	100 Kg (220 lbs.)
Weight (Shipping)	127 Kg (280 lbs.)

Product Certification

Safety	UL 1950, CSA 950, TUV IEC 950
Emissions	FCC Class "A", CISPR 22, Class "A"
Laser	CDRH, IEC 825

Reliability and Service

MSBF (robotics)	2 million swaps
MSBF (drive)	600,000 swaps
MTBF* (robotics)	100,000 hours
MTBF* (drive)	100,000 hours
Mean Time to Repair	30 minutes
Preventative maint.	None required

Environmental Specifications

Temperature

Operating	10° to 40° C
*Non-Operating	-40° to 60° C
Gradient	10° C per hour
*Transportation (<14 consecutive days)	-30° to 60° C

Humidity

Operating	10% to 90% RH
*Non-Operating	5% to 95% RH

Shock

(Non-Operating)	10 cm tilt, drop test
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Vibration (5 to 500 Hz)

Operating	0.21 g rms
Non-Operating (random)	2.1 g rms
Non-Operating (swept-sine)	0.5 g (0 to peak)

Power Requirements

Line Voltage	100 to 240 VAC
Line Frequency	50 to 60 Hz
Power Consumption	210/240 W typical. 250/275 W maximum
Energy-saving mode	Power savings when robotics is inactive

Interface

SCSI-2	Single-ended or differential (user-selectable)
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LUN Converter

* without media

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Data subject to change.

Access HP on the Internet Web:
www.hp.com/go/optical

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