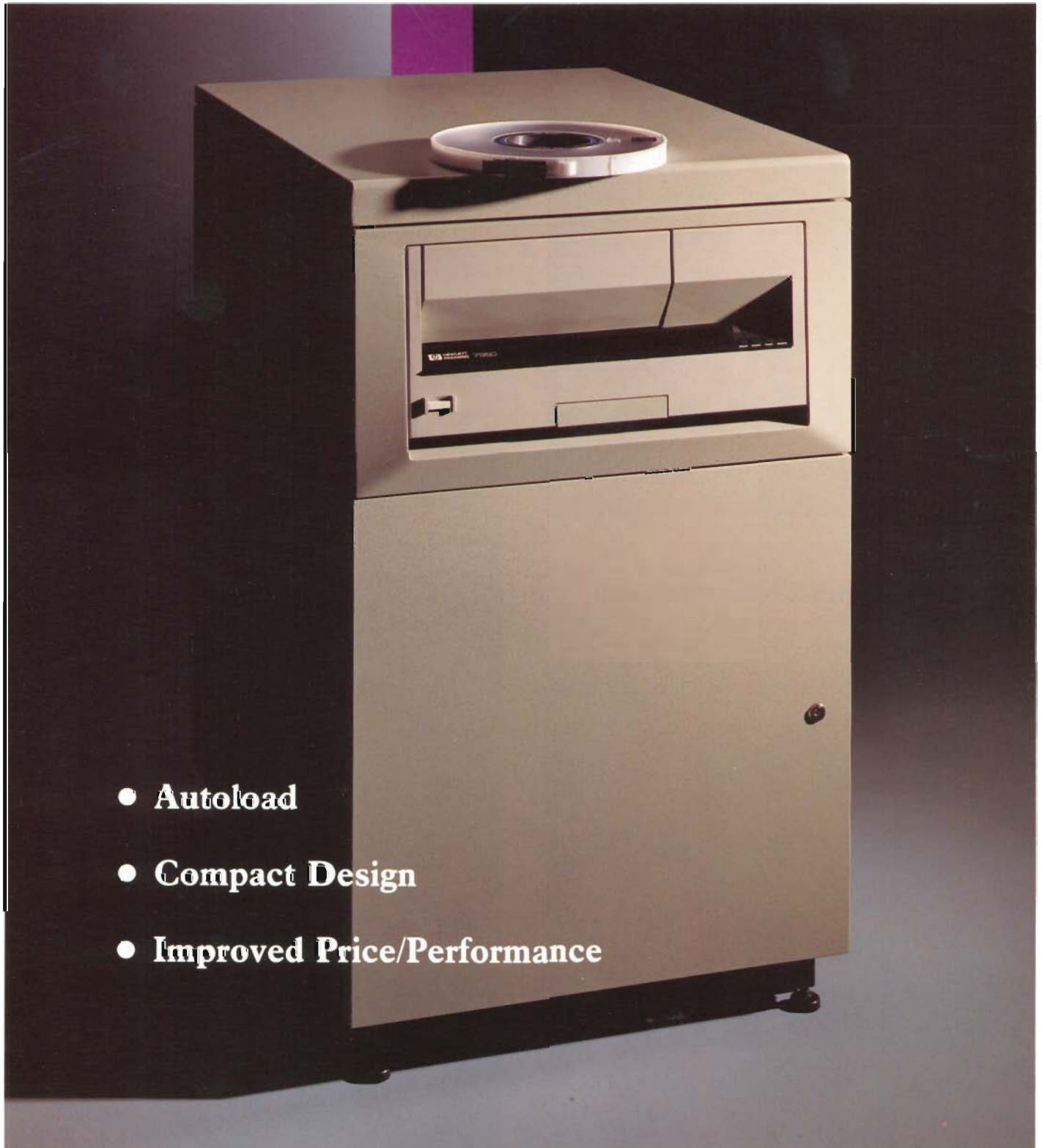


HEWLETT-PACKARD

The HP 7980A/7979A 1/2-inch Tape Drives

*Technical Data June, 1987



- Autoload
- Compact Design
- Improved Price/Performance

HP 7980A/HP 7979A PRODUCT SPECIFICATIONS

PERFORMANCE CHARACTERISTICS

	HP 7980A	HP 7979A
Burst Transfer Rate		
6250 GCR	781 Kbytes/sec max.	N/A
1600 PE	200 Kbytes/sec max.	200 Kbytes/sec max.
Speed		
Read/Write	125 ips	125 ips
Rewind	320 ips average, 400 ips max (90 seconds to rewind a 2400 ft. tape)	
DENSITY/FORMAT		
	HP 7980A	HP 7979A
Density	6250 cpi/1600 cpi	1600 cpi
Formatted		
Data Capacity	140 Mbytes, typical 40 Mbytes, typical	40 Mbytes, typical
Maximum Block Size On Tape*		
6250 GCR	256 Kbytes	N/A
1600 PE	64 Kbytes	64 Kbytes
* Block size may be limited by host operating system		
Error Rate		
	HP 7980A	HP 7979A
GCR Hard	1 in 10E11*	N/A
PE Hard	1 in 10E10*	1 in 10E10*
* At 90% statistical confidence.		

FUNCTIONAL CHARACTERISTICS

	HP 7980A	HP 7979A
Internal Buffer Size	512 Kbytes	256 Kbytes
Operating Mode	Streaming or start/stop emulation	
Interface	HP-IB (IEEE-488)	HP-IB (IEEE-488)

POWER REQUIREMENTS

	HP 7980A	HP 7979A
Line Voltage ($\pm 10\%$)	100-120 VAC 200-240 VAC	100-120 VAC 200-240 VAC
Line Frequency	50-60 Hz	50-60 Hz
Power Consumption		
Maximum	250 watts	250 watts
Standby	20 watts	20 watts
Idle	170 watts	170 watts

ENVIRONMENTAL CONDITIONS

	HP 7980A	HP 7979A
Temperature		
Operating	15 to 32°C	15 to 32°C
Non-operating	0 to 55°C	0 to 55°C
Storage	-40 to 70°C	-40 to 70°C
Rate of Change	20°C per hour	20°C per hour
Relative Humidity		
Operating	Media limited to 20% to 80% at <20°C maximum wetbulb temperature.	
Storage/Shipment	Media limited to 90% at 40°C maximum wetbulb temperature.	
Altitude		
Operating	3000m (10,000 ft)	3000m (10,000 ft)
Non-operating	15,300m (50,000 ft)	15,300m (50,000 ft)
Shock		
Trapezoidal Wave	168ips, min 30g	168ips, min 30g
Half Sine Wave	4 inch tilt drop test, 4 edges	
Vibration		
Operating Random (~0.21 g rms)	5-500 Hz	5-500 Hz
Non-operating Random (~2 g rms)	5-500 Hz	5-500 Hz
Non-operating Swept Sine (0.5 g peak)	5-500 Hz	5-500 Hz
Audible Noise (A weighted sound power)		
Read/Write		
Operation	6.6 Bels A	6.6 Bels A
Tape-loading		
Operation	7.2 Bels A	7.2 Bels A

PHYSICAL SPECIFICATIONS

	HP 7980A	HP 7979A
Mechanism		
Height	222mm (8.75 in)	222mm (8.75 in)
Width	483mm (19.0 in)	483mm (19.0 in)
Depth	673mm (26.5 in)	673mm (26.5 in)
Weight	38.5kg (85 lbs)	38.5kg (85 lbs)
Rack-mounted		
Height	1000mm (39.37 in)	1000mm (39.37 in)
Width	600mm (23.62 in)	600mm (23.62 in)
Depth	800mm (31.5 in)	800mm (31.5 in)
Weight	136.5kg (300 lbs)	136.5kg (300 lbs)
Shipping Weight	177.25kg (390 lbs)	177.25kg (390 lbs)

MAGNETIC TAPE

	HP 7980A	HP 7979A
Width	12.7mm (0.5 in)	Tape media should meet or exceed the following ANSI standards:
Thickness	.038 mm (1.5 mils)	ANSI X3.40-1976.

Use of 1 mil tape is supported for these tape drives with strict operating limitations. For more details refer to the Users Guide, P/N 07980-90000.

Media quality has direct impact on drive performance.

ORDERING INFORMATION

Note: Contact your local HP Sales Representative to verify current host system support before ordering.

6250/1600 cpi 1/2-inch streaming tape drive	HP 7980A
Tape drive ships in 19"-wide, 1 meter high cabinet. One tape or disc may be added in each cabinet.	
Delete cabinet (does not include rackmount hardware or HP installation)	
HP 7980A opt. 135	
Add-on tape drive for installation in 1 meter cabinet with one HP 7980A or HP 7979A already installed	
HP 7980A opt. 133	
Changes cabinet to allow adding HP 7936/37 disc drive (Disc drive and HP 19512A rack mounting kit ordered separately.)	
HP 7980A opt. 137	
Discount for trade-in of HP 7976A	
HP 7980A opt. 676	
Discount for trade-in of HP 7978A/B	
HP 7978AN	
Discount for trade-in of HP 7970E	
HP 7970EN	
Discount for trade-in of HP 7974A	
HP 7974AN	
1600 cpi 1/2-inch streaming tape drive	HP 7979A
Tape drive ships in 19"-wide, 1 meter high cabinet. One tape or disc may be added in each cabinet.	
Delete cabinet (does not include rackmount hardware or HP installation)	
HP 7979A opt. 135	
Add-on tape drive for installation in 1 meter cabinet with one HP 7980A or HP 7979A already installed	
HP 7979A opt. 133	
Changes cabinet to allow adding HP 7936/37 disc drive (Disc drive and HP 19512A rack mounting kit ordered separately.)	
HP 7979A opt. 137	
HP 7979A-to-HP 7980 Field Upgrade Kit	HP 88703A
HP Magnetic Tape	600 ft. reels (Box of 10) HP 92150D
	1200 ft. reels (Box of 10) HP 92150E
	2400 ft. reels (Box of 10) HP 92150F

ACCESSORIES and SUPPLIES INCLUDED

2 meter shielded HP-IB cable	Foam swabs
Magnetic tape, 2400 ft. reel	User's guide
Tape head cleaner	Tape seal holder

REGULATORY AGENCY COMPLIANCE

SAFETY

Underwriters Laboratories
UL 478, 5th edition (UL listed)
Canadian Standards Association
C22.2 No. 154-M1983 (CSA certified)
International Electrotechnical Commission
IEC 380, 435 (complies)

EMISSIONS

Federal Communications Commission
FCC-A
FTZ 1046/84 (with Level B Controller) VDE-B

WARRANTY & SERVICE

HP tape products are warranted against defects in material and workmanship for 90 days following date of installation. HP will repair or replace products which prove to be defective during the warranty period. 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 and a choice of response time. Current 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 the warranty or service agreement any repairs for damage to HP products which HP reasonably determines or believes were caused by the use of non-HP media or cleaning supplies. Hewlett-Packard will, upon request, repair such damage on a time and material basis.

* The information and specifications presented in this data sheet are subject to change without notice.

For assistance call the HP regional office nearest you: Eastern 301/670-4300, Midwest 312/255-9800, Southern 404/955-1500, Western 818/509-2300, Canadian 416/678-9430. Or write to Hewlett-Packard 700 71st Ave. Greeley, CO 80634; in Europe, Hewlett-Packard, S.A., 150

Route du Nant-D'Avril, CH-1217 MEYRIN 2 (Geneva) Switzerland; elsewhere in the world, Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, California 94304.

