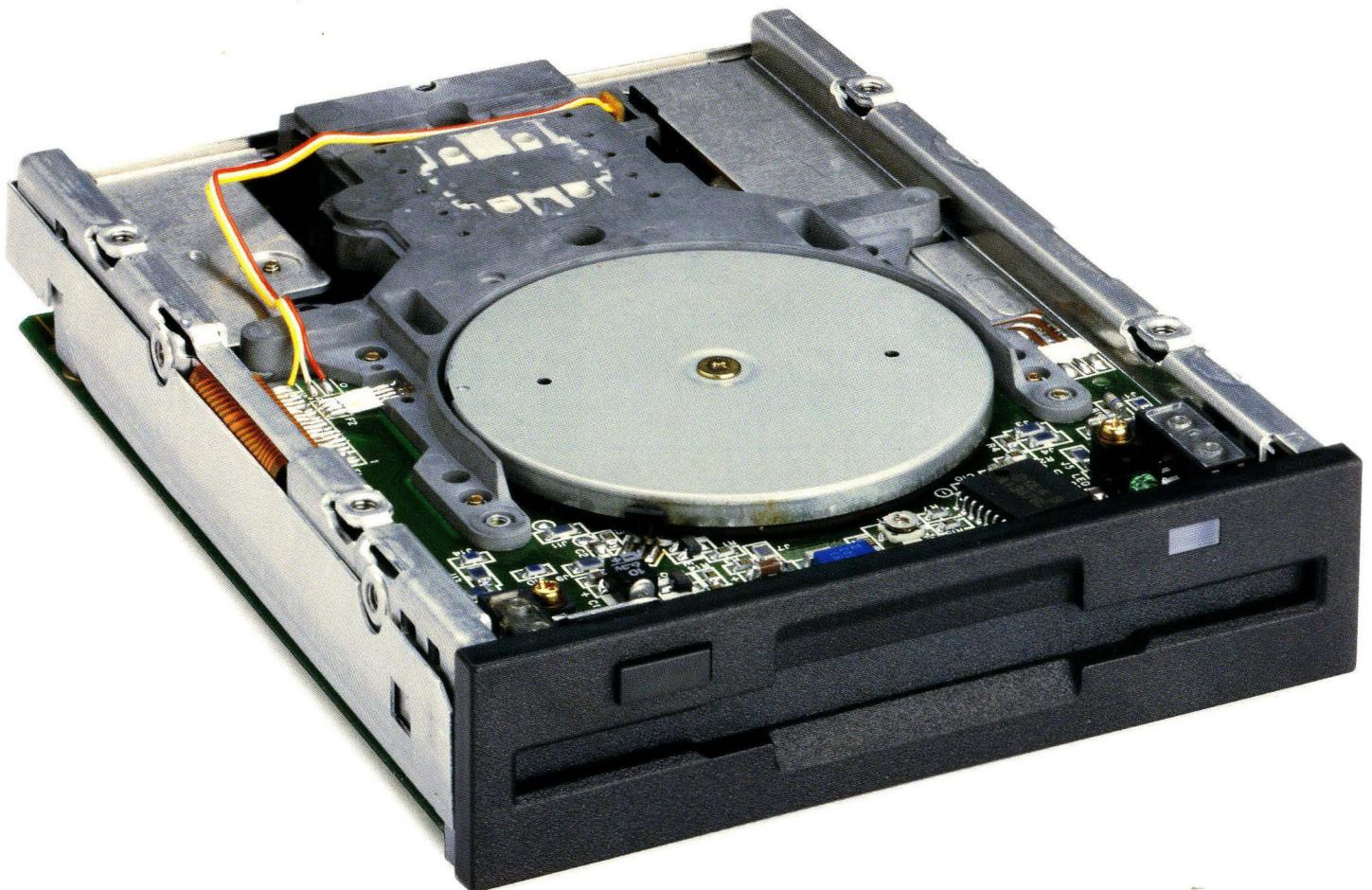


NEC FD1335H 3 1/2-Inch High-Capacity Floppy Disk Drive

Large removable data storage —
designed for small computers.

FEB 4 1992

- 10.18-MB storage on a single 3 1/2-inch diskette
- Weighs less than 14 oz
- Measures only 1-inch high
- Combination MIG & ferrite R/W head
- Standard floppy disk drive interface
- Read/write compatible with 720-KB and 1.44-MB drives
- 30,000 HR MTBF



NEC

NEC's FD1335H offers 10 MB of formatted storage on a single 3 1/2-inch diskette. The FD1335H solves storage problems for applications such as desktop publishing, image processing, computer-aided design, and software distribution.

A closed-loop sector-servo system that uses preformatted metal-film media increases the FD1335H track density to 431 tpi. Utilizing a combination metal-in-gap (MIG) and ferrite read/write head, the linear density is increased to

36,595 bits per inch (bpi) in 10-MB mode. Full compatibility is also ensured with conventional 720-KB and 1.44-MB diskettes.

The drive uses the standard floppy disk drive interface. An added density control signal controls reading and writing in 10-MB mode. A 1.25-Mb/s data rate is required to read and write in 10-MB mode.

The FD1335H uses the field proven, linear stepper motor developed by NEC.

The motor technology has demonstrated higher reliability and greater accuracy than standard floppy drive stepper motors. It is also lighter and quieter than the others.

The FD1335H packs high-capacity storage into a 3 1/2-inch form factor that is only 1-inch high. This high-performance drive continues the NEC tradition of quality and reliability.

FD1335H Disk Specifications

	720-KB Mode	1.44-MB Mode	10-MB Mode
Unformatted Capacity	1 MB	2 MB	13.3 MB
Formatted Capacity	720 KB	1.44 MB	10.18 MB
Data Transfer Rate (Kb/sec)	250	500	1250
Rotational Speed (rpm)	300	300	360
Recording Density			
Bit density (bpi)	8,717	17,434	36,595
Track density (tpi)	135	135	431
Number of tracks	160	160	510
Seek Time			
Track-to-track	3 ms	3 ms	3 ms
Settling Time	15 ms	15 ms	100 ms
DC Power Requirements	+5V, +12V	+5V, +12V	+5V, +12V
Power Dissipation (watts)			
Read/Write mode	3.4 W	3.4 W	3.4 W
Stand-by mode	.6 W	.6 W	.6 W
Environmental Requirements			
Operating temperature	39° to 115°F (4° to 46°C)	39° to 115°F (4° to 46°C)	39° to 115°F (4° to 46°C)
Non-operating temperature	-4° to 140°F (-22° to 60°C)	-4° to 140°F (-22° to 60°C)	-4° to 140°F (-22° to 60°C)
Operating humidity	20% to 80%	20% to 80%	20% to 80%
Non-operating humidity	10% to 90%	10% to 90%	10% to 90%
Dimensions			
Height	1.0 in. (25.4 mm)	1.0 in. (25.4 mm)	1.0 in. (25.4 mm)
Width	4.0 in. (101.6 mm)	4.0 in. (101.6 mm)	4.0 in. (101.6 mm)
Depth	5.25 in. (130 mm)	5.25 in. (130 mm)	5.25 in. (130 mm)
Weight	.87 lb (380 g)	.87 lb (380 g)	.87 lb (380 g)
Reliability			
MTBF	30,000 POH	30,000 POH	30,000 POH
MTTR	< 30 minutes	< 30 minutes	< 30 minutes
Device life	15,000 POH or 5 years	15,000 POH or 5 years	15,000 POH or 5 years