

320 SuperMinifloppy

DEC 3 1982

The DRIVETEC 320 SuperMinifloppy™ provides 3.3 megabyte storage capacity and 3 millisecond track-to-track performance in a compact, low cost, half-height 5¼" minifloppy format. Downward compatibility is maintained with existing minidiskettes by utilizing a 192 tpi double-sided recording format. A proprietary track following servo system ensures accurate, on-track read/write head positioning.

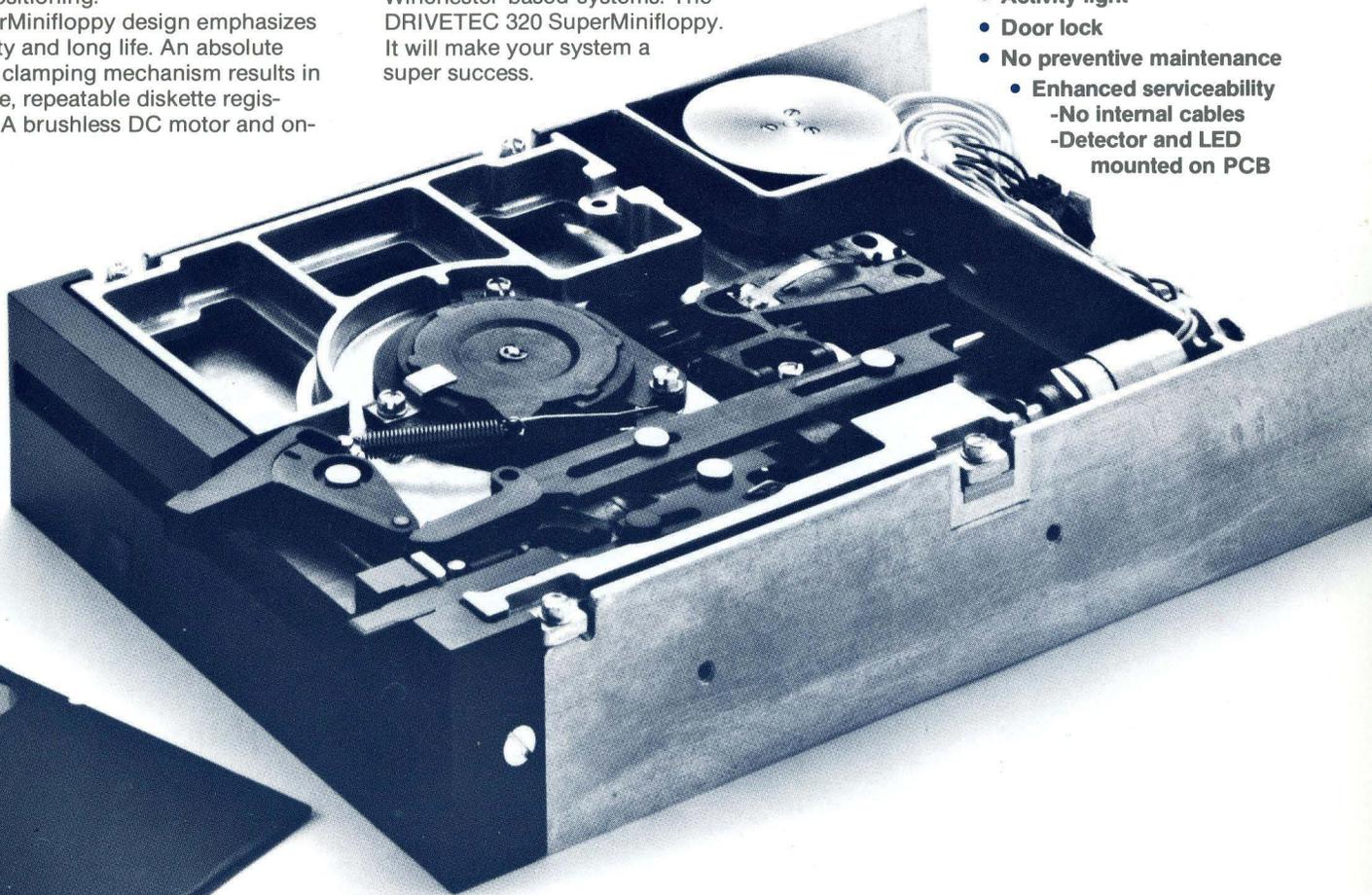
SuperMinifloppy design emphasizes reliability and long life. An absolute vertical clamping mechanism results in accurate, repeatable diskette registration. A brushless DC motor and on-

board microprocessor provide enhanced performance as well as reliable operation. No preventive maintenance is required for the DRIVETEC 320.

The 320's compact size, high performance and 500 Kbit/sec transfer rate make it the perfect selection for a super floppy-based-system upgrade. As well, its very high storage capability provides excellent back-up for Winchester-based-systems. The DRIVETEC 320 SuperMinifloppy. It will make your system a super success.

KEY FEATURES

- Proprietary track following servo system
- Downward compatibility with 48tpi minidiskettes
- Utilizes two stepper motors (coarse and fine)
- On-board microprocessor
- Brushless DC motor
 - Activity light
 - Door lock
 - No preventive maintenance
 - Enhanced serviceability
 - No internal cables
 - Detector and LED mounted on PCB



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320 SuperMinifloppy Specifications

PERFORMANCE SPECIFICATIONS

• Capacity	Formatted	Unformatted
- Per Disk	2.62 MBytes	3.33 MBytes
- Per surface	1.31 MBytes	1.67 MBytes
- Per track	8192 Bytes	10416 Bytes
- Per sector	256 Bytes	
• Transfer rate	500 Kbits/sec.	
• Access time		
- Track to track	3 msec.	
- Settling	15 msec.	
- Average	160 msec.	
- Average latency	83 msec.	

FUNCTIONAL SPECIFICATIONS

• Rotational speed	360 rpm
• Recording density	9908 bpi
• Flux density	9908 fci
• Track density	192 tpi
• Cylinders	160
• Tracks	320
• R/W heads	2
• Index	Not required
• Encoding method	MFM

RELIABILITY SPECIFICATIONS

• MTBF	10000
• MTTR	15 min.
• PM	Not required
• Component life	5 yrs.
• Error rates	
- Soft read errors	1 per 10 ⁹ bits read
- Hard read errors	1 per 10 ¹² bits read
- Seek errors	1 per 10 ⁶ bits read
• Media life	
- Passes per track	3.5 × 10 ⁶
- Media insertions	30,000 +

PHYSICAL SPECIFICATIONS

ENVIRONMENTAL LIMITS

Environmental limits

Ambient temp: 50°F to 115°F (10°C to 46°C)
Relative humidity: 20% - 80%
Max. wet bulb: 78°F (25.6°C)
non-condensing

DC voltage requirements

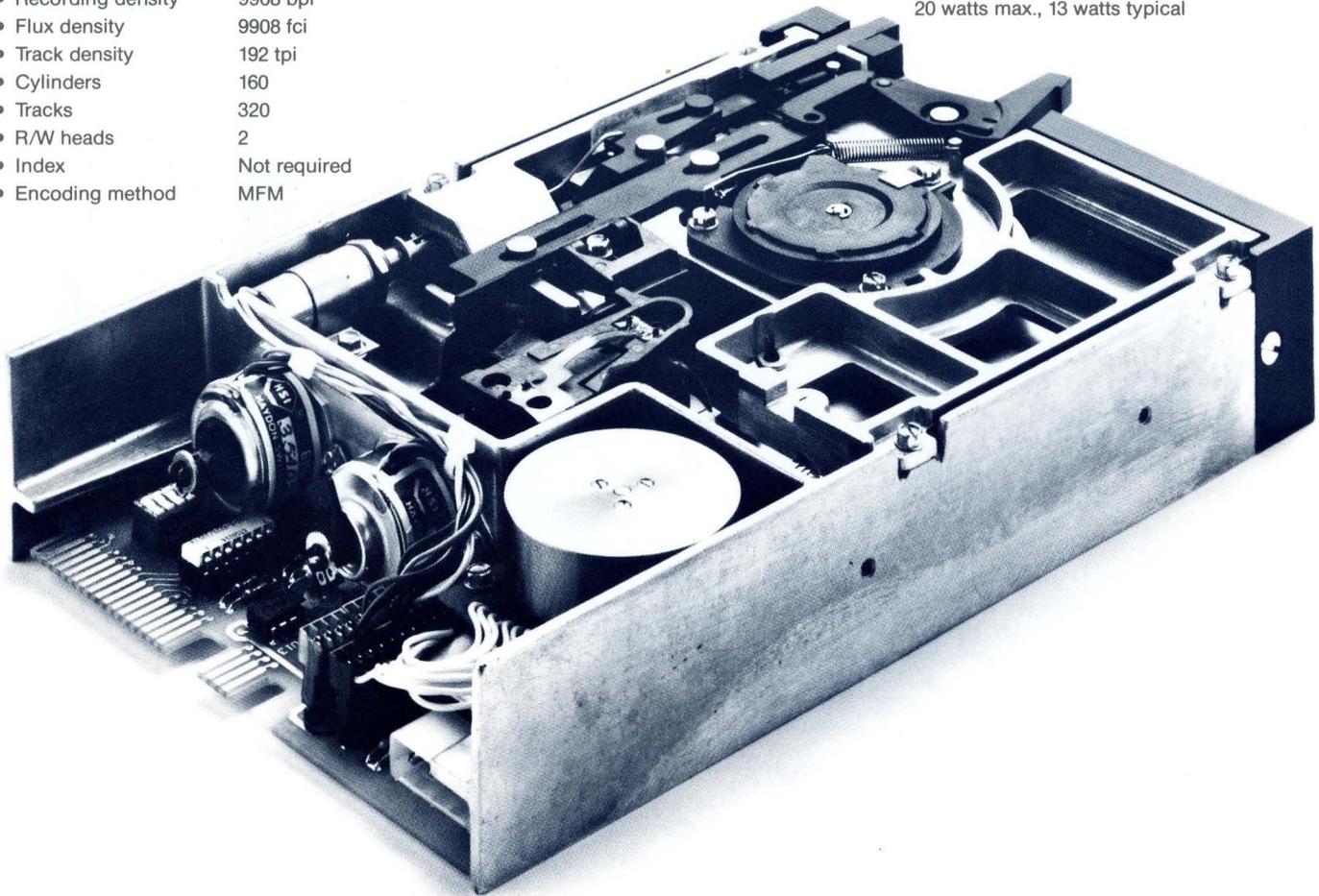
+5VDC ± 5% @ .41 A typical, 42 A max
+12VDC ± 5% @ .9 A typical, 1.4 A max

Mechanical dimensions

Height	1.62 in. (41.3 mm)
Width	5.75 in. (146.1 mm)
Depth	8.62 in. (218.9 mm)
Weight	2.0 lbs. (.9 kg)

Heat dissipation

20 watts max., 13 watts typical



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