

QumeTrak 242



Half-Height, Double-Sided 8 Inch Floppy Disk Drive From Qume

The QumeTrak 242 delivers 1.6M Bytes of unformatted storage in a half height floppy disk drive. It is designed for the user requiring high capacity while maintaining compatibility with double-sided 8 inch media. The QumeTrak 242 is a remarkably well engineered advancement in 8 inch floppy disk drives.

Floppy Disk Drives by Qume offer the quality, reliability, performance and human engineering that users have come to depend on for their word processing and small computer applications. Data reliability is enhanced through two independently flexured trigimball-head assemblies loaded by an electronically dampened head load solenoid.

Additionally highlighted features include a highly reliable

DC drive motor and a bezel designed to facilitate operator loading and unloading of diskettes.

Best of all, it is a Qume drive from the recognized leader in quality.

KEY FEATURES

- Double-sided, 8 inch media with capacity of 1.6M Bytes
- Half-height size
- DC motor
- Operator-oriented bezel
- Qume quality

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A Subsidiary of ITT

Design Benefits

8 Inch Double-Sided Media

- 1.6M Bytes capacity
- Backward compatibility in both media and software

Half Height 8 Inch Size

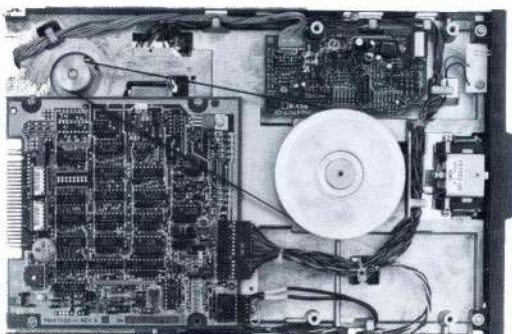
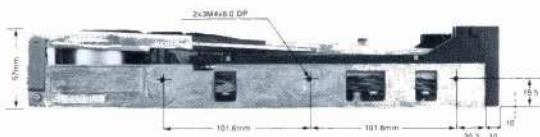
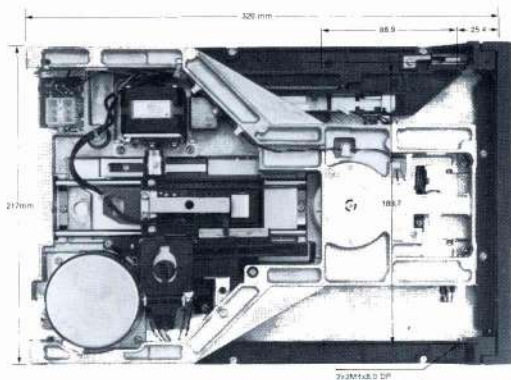
- Two double sided 8 inch drives can be located in the same space as one full size 8 inch drive
- Reduced shipping weight and volume

DC Motor

- Simplified power requirements
- No requirement to adjust to different country AC power sources

Superior Media Wear Reduction

- Dual independently flexured trigim-balled head assemblies
- Dampened head load solenoid
- Contoured ceramic high resolution read/write tunnel erase heads



Product Specifications

Performance Specifications

	Single Density	Double Density
Capacity		
Unformatted	0.8M Bytes	1.6M Bytes
Qume formatted	0.56M Bytes	1.2M Bytes
Recording density	3408 BPI	6816 BPI
Track density	48 TPI	48 TPI
Cylinders	77	77
Tracks	154	154
Recording method	FM	MFM
Rotational speed	360 RPM	360 RPM
Transfer rate	250K Bits/sec	500K Bits/sec
Latency (avg.)	83 ms	83 ms
Access Time		
Average	91 ms	91 ms
Track-to-track	3 ms	3 ms
Settling	15 ms	15 ms
Head Load Time	50 ms	50 ms
Motor Start Time	2 sec	2 sec

Installation Requirements

DC Power	+ 24 VDC \pm 10%, 1.0A MAX. 0.5A TYP.
Requirements	+ 5 VDC \pm 5%, 1.3A MAX. 0.9A TYP.
Power dissipation	30W below, 17W TYP.
Operating Environment	
Temperature	5°C to 43° (41°F to 110°F)
Relative humidity	20% to 80% RH
Max. wet bulb	29°C (84°F)
Mechanical dimensions	
Width	217 mm (8.55 in.)
Height	57 mm (2.25 in.)
Depth	320 mm (12.60 in.)
Weight	3.5 Kg (7.7 lbs.)

Maintenance and Reliability

MTBF	10000 POH
MTTR	.5H
PM	2 year
Error rate	
Soft read error	1/10 ⁹ bits read
Hard read error	1/10 ¹² bits read
Seek error	1/10 ⁶ seeks
Design life	15000H or 5 years

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