

NAMAL DISK DRIVES

1 Single Disk Drive

3 Dual Disk Drives (vertical)

2 Single Disk Drive with PSU

4 Dual Disk Drives (horizontal)

USING
TEAC
FD55
SERIES



- 5 $\frac{1}{4}$ " floppy disk drives
- Half the height of conventional drives
- Choice of capacity from 125 KBytes to 1 MByte
- New TEAC LSIs reduce power consumption, increase reliability
- Brushless DC direct drive motor
- High-speed data access

NAMAL DISK DRIVES

The following models of the Namal Disk Drives have been released:

1. **Single Disk Drive**
available with TEAC FD55A, FD55E or FD55F
2. **Single Disk Drive with Power Supply Unit**
available with TEAC FD55A, FD55E or FD55F
3. **Dual Disk Drives (arranged vertically)**
available with TEAC FD55A, FD55E or FD55F
4. **Dual Disk Drives (arranged horizontally)**
available with TEAC FD55A, FD55E or FD55F

SPECIFICATIONS

Recording Method:

FM (single density), MFM (double density)

Motor Starting Time: 400 ms

Index: 1

MTBF: more than 10,000 hours

Error Rates

Soft Errors: 1 per 10^9 bits (up to 2 retries)

Hard Errors: 1 per 10^{12} bits

Seek Errors: 1 per 10^6 seeks

Temperature

Operating: 4° — 46°C

Transportation: -40° — 65°C

Storage: -22° — 60°

Relative Humidity

Operating: 20 — 80% (noncondensing)

Max. Wet Bulb Temperature: 29°C

Transportation: 5 — 95% (noncondensing)

Max. Wet Bulb Temperature: 45°C

Storage: 10 — 90% (noncondensing)

Max. Wet Bulb Temperature: 40°C

Power Requirements:

DC + 12 V \pm 5% 0.25 A Typ., 0.9 A Max.

DC + 5 V \pm % 0.38 A Typ., 0.6 A Max.

Power Consumption

Operating: 4.9 W

Non-Operating: 1-6 W

Component Life: 5 years

Safety Standard: Complying with UL and CSA

Dimensions	Weight
Single Disk Drive 270mm \times 52mm \times 155mm	2 kg
Single Disk Drive with PSU 245mm \times 52mm \times 155mm	2.5 kg
Dual Disk Drives (vertical) 245mm \times 92mm \times 155mm	5 kg
Dual Disk Drives (horizontal) 345mm \times 52mm \times 305mm	5 kg

		FD-55A		FD-55E		FD-55F		
		FM	MFM	FM	MFM	FM	MFM	
Transfer Rate (K bits/sec)		125	250	125	250	125	250	
Capacity (K bytes)	Unformatted	Per Track	3.125	6.25	3.125	6.25	3.125	6.25
		Per Disk	125	250	250	500	500	1,000
	Formatted (16 sectors/ track)*	Per Sector	0.128	0.256	0.128	0.256	0.128	0.256
		Per Disk	2,048	4,096	2,048	4,096	2,048	4,098
Inside Track Recording Density (bpi)		2768	5536	2788	5576	2961	5922	
Inside Track Flux Density (frpi)		5536		5576		5922		
Tracks/Disk		40		80		160		
Track Density (tpi)		48		96		96		
Track Radius (mm)	Outside	57.150		57.150		side	0 : 57.150 1 : 55.033	
	Inside	36.513		36.248		side	0 : 36.248 1 : 34.131	
Average Access Time (ms)		93		94		94		
Track Access Time (ms)		6		3		3		
Settling Time (ms)				15				
Disk Rotational Speed (rpm)		300		300		300		
				can be switched to 40 tracks		can be switched to 40 tracks		

The above specifications are subject to change without prior notice.

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