From the "OEM Manual"

From the "service manual"

1.1.1 Performance Specifications Capacity Unformatted per disk 109.4K bytes 3125 bytes per track Formatted (Reference Section 7.0) Soft Sectoring Hard Sectoring 80.6K bytes 72.03K bytes per disk 2304 bytes 2058 bytes per track 128 bytes per sector 128 bytes sectors per track 18 16 125.0K bits/sec. Transfer Rate 100 ms Latency (average) Access Time track to track 40 ms average 463 ms settling time 10 ms Head Load Time 75 ms Disc Motor Start Time 1 sec. 1.1.2 Functional Specifications 300 RPM Rotational Speed **Recording Density** 2581 BPI (inside track) 5162 FCI Flux Density Track Density **48 TPI** Tracks 35

1.542 in. (3.916 cm)

2.250 in. (5.715 cm)

(Hard Sectored)

SA104 minidiskette (Soft Sectored)

SA 105 or SA107 minidisket

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FM

Inside Track Radius

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Outside Track Radius

1.8 TRACKS

The SA 400 Minifloppy drive is capable of recording up to 35 tracks of data. The tracks are numbered 0-34. Each track is made available to the read/write head by accessing the head with a stepper motor and carriage assembly. Track 00 is the outer most track with track 34 being the intermost track. Track accessing will be covered in Section 3.

Basic Track Characteristics:

No. bits/track	25,000 bits
Bit per inch (inside)	2,581 BPI
Tracks per inch	48 TPI
Access time	40 msec

1.9 TRACK FORMAT

Tracks may be formatted in numerous ways and is dependent on the using system. The SA 400 can use hard sector recording with SA105 and SA107 media or soft-sectoring using SA104 media.

1.10 HARD SECTOR RECORDING FORMAT

In this Format, the using system may record up to 10 or 16 sectors (records) per track. Each track is started by a physical index pulse and each sector is started by a physical sector pulse. This type of recording is called hard sectoring. Figure 6 shows some typical Sector Recording Formats. The using system must do the sector separation. For additional information on sector separation and formatting requirements. Refer to the SA 400 OEM Manual.

1.11 SOFT SECTOR RECORDING FORMAT

In this Format, the using system may record one long record or several smaller records. Each track is started by a physical index pulse and then each record is preceded by a unique recorded identifier. This type of recording is called soft sectoring. Figure 7 shows the soft sector format for 18 sectors and 128 bytes. Refer to the SA 400 OEM Manual for further formatting information.