8407 Diskette Subsystem

Automatic loading, operational flexibility and uncompromising performance—these features mark the caliber of the SPERRY UNIVAC 8407 Diskette Subsystem.

The 8407 can feed up to 12 diskettes per minute* and automatically senses whether recording is on one or both sides, single or double density. Once these determinations are made, the 8407 configures the subsystem, communicates that configuration to the host interface and then is ready to write, read or move the diskette on command.

If the 8407 moves the diskette, it can place the diskette in its output bin, which holds 20 diskettes. The input bin holds 20 diskettes also, giving the 8407 an unattended minimum capacity of 5MB, when using single-sided, single density diskettes. Maximum capacity is 20MB when double-sided, double-density diskettes are used. You can intermix different types of diskettes for almost any capacity in between.

The 8407 Diskette Subsystem also enables you to record in a Spiral Format. In this mode, each logical track in a succession of contiguous tracks is time-offset from its adjacent tracks. This provides a nearly continuous sector stream as the read/write head steps from one track to the next. This technique can significantly increase the track transfer rate for some sequential operations since it avoids the full rotation latency inherent in standard recording.

The 8407 has a number of features that help it deliver long hours of trouble free, productive operation. These include the combination of logical track seeking, automatic read/write retry and data set label analysis with resident diagnostics and constant error checking throughout the logical circuits of the machine.

For more information, examine the reverse side and contact your local Sperry Univac representative.

*This time does not include data transfers.

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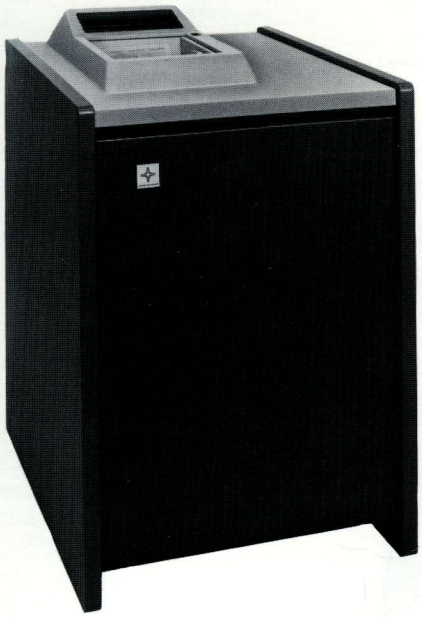

COLORS

Front: Persimon Red
Sides: Charcoal
Back: Pearl Gray
Top: Ivory

PHYSICAL CHARACTERISTICS

Height: 38.0 in. (96.5 cm)
Width: 26.5 in. (67.3 cm)
Depth: 31.0 in. (78.7 cm)
Weight: 200 lb. (90.8 kg)

ENVIRONMENTAL CHARACTERISTICS

Temperature: 50°F to 93°F (10°C to 34°C)
Humidity: 20% to 80%
Heat Contribution: 2200 BTU/hr. (554 kg cal/hr.)

POWER REQUIREMENTS

200/208/240 Vac 60 Hz
200/220/240 Vac 50 Hz
.8 KVA

FUNCTIONAL CHARACTERISTICS

Input Hopper: 20 Diskettes
Output Hopper: 20 Diskettes
Diskette Drive: 1 Diskette
Load/Unload time per diskette:
- 60 Hz: 5 Seconds
- 50 Hz: 6 Seconds

Access Time (loaded diskette):
- Minimum: 18 ms
- Average: 175 ms
- Maximum: 327 ms

Head Motion Time:
- Track to track: 3 ms
- Settling: 15 ms
- Loading: 50 ms

Diskette Rotation:
- Rate: 360 rpm
- Latency:
  - Average: 83 ms
  - Maximum: 167 ms

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- Rate: 360 rpm
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Recording Formats:*
- Tracks: 74 usable (2 spares) per side all formats
- Single-sided, single-density: 128, 256 or 512 bytes/sector
- Single-sided, double-density: 256 or 512 bytes/sector
- Double-sided, single-density: 128, 256 or 512 bytes/sector
- Double-sided, double density: 256 or 512 bytes/sector

Data transfer rate:
- Single-density: 31.25 KB/sec. burst
- Double-density: 62.5 KB/sec. burst

*Acceptable formats include Sperry Univac standard, Sperry Univac spiral, and IBM 5280—compatible BDE and H formats.

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