The SPERRY UNIVAC™ 8433 Disc Storage Subsystem is the largest capacity Sperry Univac removable direct-access storage subsystem. It provides large database storage for teleprocessing and management-information systems. An average head positioning time of 30 milliseconds provides the speed necessary for future throughput requirements.

The complete subsystem consists of a SPERRY UNIVAC 5039 Control Unit and from two to sixteen SPERRY UNIVAC 8433 and/or 8430 Disc Storage drives intermixed in the subsystem (16-drive expansion feature required to address the second group of eight drives). In addition to the removable disc storage drives, the 5039 Control Unit can attach the 8405 Fixed-Head Disc (FHD) Drive (via F2076 8405 capability). The maximum configuration with FHD is from one to eight 8405 FHD drives and from two to eight 8433 and/or 8430 Disc Storage drives. Each 8433 consists of a single spindle mounted in a slim-line cabinet which permits simplified subsystem expansion to multiple spindle configurations with minimal floor-space requirements. The convenient waist-high disc-pack loading facilitates easy load/unload operations.

The SPERRY UNIVAC 8433 Disc Storage drive accepts the industry-standard disc pack which stores 200 million bytes or 34,388,460 36-bit words. Thus, depending on specific requirements, it is possible to have up to 3.2 billion bytes or 550,215,680 36-bit words of storage per subsystem.

A data-transfer rate of 806,000 bytes per second allows for improved systems performance capability. Simultaneous read/read, read/write or write/write operations can be performed on any two disc drives via a second control unit and appropriate features.

Error correction codes (ECC) and improved diagnostics are provided as standard features in the 8433 subsystem. Error correction codes are used to detect and correct data errors, thereby increasing reliability.

With the addition of the 8433, Sperry Univac adds another high-performance device to its line of mass storage devices. Contact your local Sperry Univac representative for further details.
**FUNCTIONAL CHARACTERISTICS (PER DRIVE)**

**Data Capacity** (8-bit bytes, one record per track, Free Format)
- 200,036,560 bytes

**Disc Drive**
- 3,200,584,960 bytes

**Controller** (16 disc drives)
- 13,030 bytes

**Track** (one record per track)
- 112 word record format

**Disc Drive**
- 34,388,480 words

**Controller** (16 disc drives)
- 550,215,680 words

**Track**
- (20 records per track)
- 2,240 words

**Transfer Rate**
- 806,000 bytes/sec.

**Data Heads**
- 19 per disc drive

**Tracks**
- 19 per cylinder
- 15,485 per disc drive
- (includes 133 spares)

**Cylinders**
- 815 per disc drive
- (includes 7 spares)

**Head Positioning Time**
- 10 ms minimum
- 30 ms average
- 55 ms maximum

**Rotational Latency**
- 8.33 ms average
- 16.67 ms maximum

**Rotational Speed**
- 3,600 RPM

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**PHYSICAL CHARACTERISTICS (PER DISC STORAGE UNIT)**

- **Width:** 22 inches
- **Height:** 40 inches
- **Depth:** 32 inches
- **Weight:** 500 pounds

**ENVIRONMENTAL CHARACTERISTICS**

**Shipping and Storage Range** (Up to 72 hours)
- Temperature: -40°F to +140°F
- Humidity: 5% to 90%

**72 hours to 6 months**
- Temperature: 50°F to 110°F
- Humidity: 8% to 85%

**Working Range:**
- Temperature: 60°F to 90°F
- Humidity: 20% to 80% with maximum wet bulb temperature not to exceed 78°F

**Heat Dissipated**
- 5,500 BTU

**POWER REQUIREMENTS**

**Nominal Voltage:** 208/230 volts

**Nominal Frequency:** 60 Hz

**Frequency Tolerance:** +1.0 Hz

**Phases and Lines:**
- Three phase, 4 wire

**Nominal Load:** 1.8 KVA

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1. This is the color repertoire: Definition of these colors is given in Color Selection Brochure U5329, which your Sperry Univac representative has available.

2. End panel color selections not available on all systems. Consult your Sperry Univac representative for details.

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Specifications Subject to Change without Prior Notice.