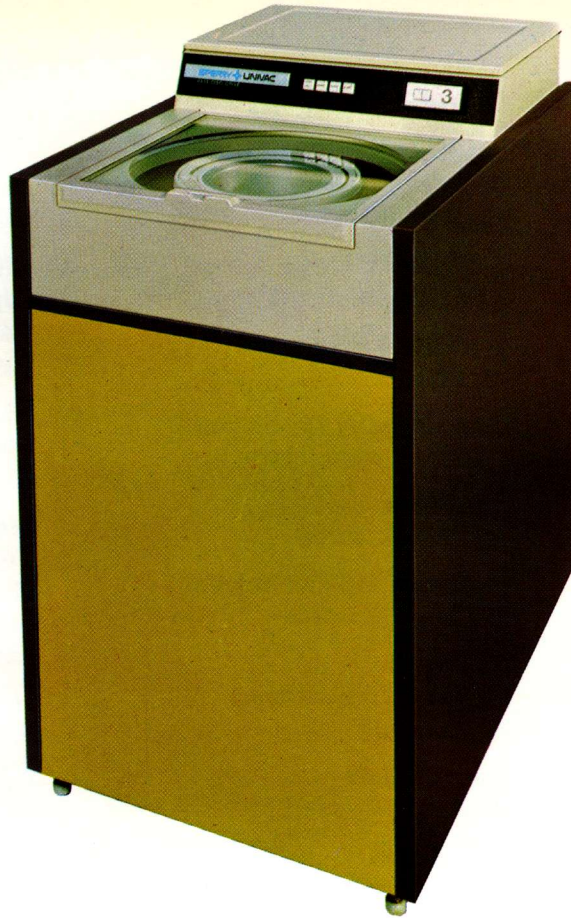


## 8433 Disc Storage Subsystem



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 34,388,480 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.

SPERRY UNIVAC





**8433 Disc Storage Subsystem**

**COLORS<sup>1</sup>**

**Standard Colors**

Frame ..... slate gray  
 Front/rear ..... pale gray

**Customer Color Selection<sup>2</sup>**

End panels ..... dark green  
    slate gray  
    twilight blue  
    earth brown  
    grayish blue

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

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

**FUNCTIONAL CHARACTERISTICS (PER DRIVE)**

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

**Disc Drive**  
 200,036,560 bytes

**Controller** (16 disc drives)  
 3,200,584,960 bytes

**Track** (one record per track)  
 13,030 bytes

**Data Capacity** (36-bit words) (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

**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<sup>3</sup>

**Frequency Tolerance** + 1.0 Hz

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

**Nominal Load:** 1.8 KVA

<sup>3</sup>50 Hz models available.

Above information provided for reference purposes only. Consult your Sperry Univac representative for additional information, delivery dates and further specifications.