



The SPERRY UNIVAC 8480 Disk Subsystem provides large scale users of the SPERRY UNIVAC 1100/90, 1100/80 and 1100/60 systems with high capacity disk technology and compact design.

Each 8480 Disk Storage Unit can accommodate 501,760,000 words (36-bits). This is four times the capacity of the 8470 Disk Storage System, yet the new subsystem occupies 33 percent less floor space than the older 8470.

The basic 8480 subsystem consists of two SPERRY UNIVAC 5056 microprogrammable control units and two dual access disk storage units. Six additional units can be attached, providing a total of 4 billion words of storage.

With optional features, each 5056

control unit can provide a four channel interface and the means to attach 8470, 8450, 8433 and 8430 disk storage units.

The dual access feature provides a second path for data should a control unit or channel be lost because of a malfunction. This improves data accessibility and improved availability.

The 8480 subsystem provides read/write heads and disks integrated into Head/Disk Assemblies (H/DA). Each 8480 contains four H/DAs that are separately addressed. Each H/DA has a capacity of 125,440,000 words when a 448 word prep is used.

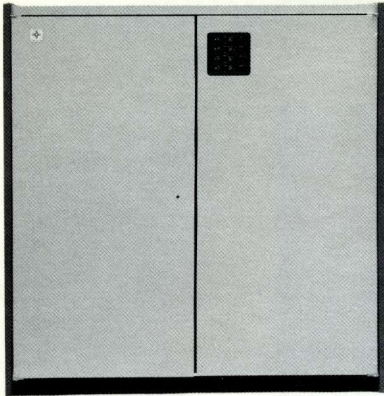
The H/DA contains two read/write heads per surface that sweep the

disk in unison. At any one time, 32 tracks are under the read/write heads. This constitutes a cylinder of data for an average 23 milliseconds needed for data to be located. Average head latency is 8.3 milliseconds.

When compared to the equivalent 8470 storage system, the 8480 packaging reduces electric power by 18 percent.

The 8480 is also available with the SPERRY UNIVAC buffered Cache//Disk system, providing you with the combined benefits of the 8480 and cache/disk. This combination can help you gain faster access to data residing on mass storage. For more information on the new 8480 Disk Storage Subsystem, contact your local Sperry Univac representative.





**SPERRY UNIVAC 8480  
Disk Subsystem**

**COLORS**

**Standard Colors**

Frame..... Black  
Front..... Persimmon Red  
Top/Rear..... Pearl Gray  
End Panels..... Charcoal Brown

**PHYSICAL CHARACTERISTICS**

**8480 Disk Drive**

Depth: 31.5 in./80 cm  
Height: 64.2 in./163 cm  
Width: 55.5 in./141 cm  
Weight: 1300 lbs/590 kg

**5056 Control**

Depth: 31.5 in./80 cm  
Height: 64.2 in./163 cm  
Width: 55.5 in./141 cm  
Weight: 749.6 lbs/340 kg

**POWER REQUIREMENTS**

**8480 Disk Drive**

Voltage: Supplied from the  
Control.  
Load: 4.4 KVA nominal  
and 5.0 KVA maximum

**5056 Control**

Voltage: 200/208/230/240 VAC  
Load: 2.0 KVA Maximum  
50 Hz models available

**FUNCTIONAL  
CHARACTERISTICS**

Data capacity per disk drive in  
1100 Series Software supported  
prep formats.

**28 Words Per Record**

Track: 2,044 Words  
Cylinder: 65,408 Words  
H/DA: 40,880,000 Words  
Total: 163,520,000 Words

**56 Words Per Record**

Track: 3,248 Words  
Cylinder: 103,936 Words  
H/DA: 64,960,000 Words  
Total: 259,840,000 Words

**112 Words Per Record**

Track: 4,480 Words  
Cylinder: 143,360 Words  
H/DA: 89,600,000 Words  
Total: 358,400,000 Words

**448 Words Per Record**

Track: 6,272 Words  
Cylinder: 200,704 Words  
H/DA: 125,440,000 Words  
Total: 501,760,000 Words

**Tracks Per**

Cylinder: 32  
H/DA: 20,000 prime +  
160 alternate

**Cylinders Per**

H/DA: 625 Prime + 5 alternate

**Head Positioning Time (H/DA)**

Minimum: 4 MS  
Average: 23 MS  
Maximum: 46 MS

**Rotational Latency (H/DA)**

Average: 8.3 MS  
Maximum: 16.7 MS

**Transfer Rate**

2.1M Bytes/Second

**ENVIRONMENTAL  
CHARACTERISTICS**

**8480 Disk Drive**

**Shipping and Storage:**

Temperature: 50°F (10°C) to  
110°F (43°C)

Humidity: 8% to 85% with  
no condensation

**Operating**

Temperature: 50°F (10°C) to  
94°F (34°C)

Humidity: 20% to 80% with  
no condensation

**5056 Control**

**Shipping and Storage:**

Temperature: -40°F (-40°C) to  
144°F (62°C)

Humidity: 1% to 95%

**Operating**

Temperature: 50°F (10°C) to  
93°F (34°C)

Humidity: 20% to 85% with  
no condensation

**Heat Dissipation**

**8480:** Nominal—12,000 BTU/Hour  
Maximum—14,000 BTU/Hour

**5056:** Maximum—6300 BTU/Hour