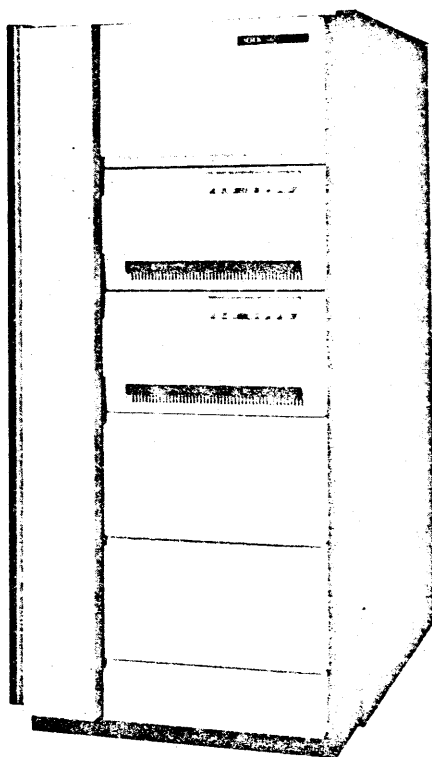# Xerox Model 3211/3214
RAD Storage System

The Xerox Model 3211/3214 Rapid Access Data (RAD) Storage System offers Xerox computer users a powerful secondary storage capability. This system is ideal for permanent storage of programming systems, and can also be used as scratch pad or working storage while processing programs. When utilized in time-sharing applications, the system can function as an extension to main memory as a swapper, in addition to its ability to store real-time and back-up programs.

A RAD system consists of one Model 3211 Rotating Storage Controller and from one to eight Model 3214 RAD storage units. The Model 3211 also serves as the controller for Xerox Models 3242 and 3243 Cartridge Disk Drives. For added flexibility, RADs and Cartridge Disks may be intermixed in any combination on a single controller to a maximum of eight units. If the eighth unit is a Cartridge Disk, access is limited to the removable cartridge only.

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Dual Access is optionally available, as is a Controller Expansion Option which is required if five or more RADs are to be supported by a single controller, or where controller-to-device maximum cable length exceeds 20 feet. Up to four RAD and/or Cartridge Disk storage units are mounted in a single cabinet. The controller is housed in the host mainframe.

Four manually set write/protect switches protect recorded data by disabling write circuitry in groups of 720,896 bytes.

Specifications
Operating Characteristics

Storage Capacity/Unit	2,883,584 bytes
Nominal Access Time*	
Average	8.5 msec.
Maximum	17 msec.
Nominal Transfer Rate	
Single Sector	755,200 bytes/sec.
Multiple Sectors	662,500 bytes/sec.
Recording Format	1024 bytes/sector
	11 sectors/track
	256 tracks/unit

Physical Dimensions

RAD Unit	
Height	10.5 in.
Width	19 in.
Depth	30 in.
Weight	95 lbs.

Cabinet (up to four units)	
Height	63.4 in.
Width	31 in.
Depth	34.7 in.

Controller
Space is provided within the host mainframe.

*Can be reduced to near-zero under special program control.
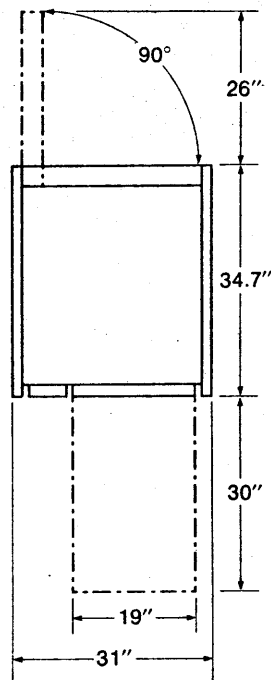
FRONT

NOTE: All dimensions are approximate.