

## CD12/14 DISK STORAGE SYSTEM

*CalComp's CD12/14 Disk Storage System is plug-to-plug interchangeable with the 2314-1, 2314-A Series, or 2314B/2319B Direct Access Storage Facility, depending on the number of CD12 Disk Drives connected.*

*The CalComp CD14 Controller operates with one or more CD12 Disk Drives to provide an on-line, random access mass storage system for the System 360, Models 30 and above.*

*A single CD12 Disk Drive is capable of storing up to 29,176,000 eight-bit bytes, with an average access time of 35 milliseconds. As many as nine CD12 Disk*

*Drives can be connected to one CD14 Controller, this configuration provides you with a total of 233,408,000 bytes of on-line storage plus one spare spindle.*

*An optional Two-Channel Switch feature permits the CD14 Controller to operate on one of any two IBM I/O channels (either two I/O channels on the same computer or I/O channels on two computers). The Two-Channel Switch feature is identical to that provided by IBM as a special feature on the IBM 2314.*

*The CD12/14 Disk Drive System is functionally interchangeable and program compatible with the corresponding IBM system.*



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# CD12/14 DISK DRIVE SYSTEM SPECIFICATIONS

## TRANSFER RATE

312,000 bytes per second

## ROTATIONAL SPEED

2400 rpm (25 milliseconds per revolution)

## ACCESS TIME

Track-to-track — 12 milliseconds

Average — 35 milliseconds

Maximum — 65 milliseconds

## START/STOP TIMES

Start-Up Time — 22 seconds

Stop Time — 12 seconds

## COMPATIBILITY

IBM 2314-1, 2314-A Series, or 2314B/2319B Direct Access Storage Facility

IBM 2316 Disk Pack or equivalent

CalComp CD22 and CD22S Disk Drives (with CD14 Controller)

IBM 360/30 Systems (and above) and 370 Systems (selector channel)

## POWER REQUIREMENTS

208v or 230v as ( $\pm 10\%$ ) 3-phase; 60,  $\pm 0.5$  Hz (50  $\pm 0.5$  Hz available)

CD14 Run Current: 2.2 amps rms

CD12 Run Current: 3.5 amps rms

CD12 Start Current: 20 amps rms, 7 sec.

## OPERATING ENVIRONMENT

Temperature: 60° to 90°F. Maximum rate of change 15° per hour.

Relative Humidity: 10 to 80 percent. Rate of change shall not cause condensation.

## HEAT DISSIPATION

CD14: 1250 BTU/hour

CD12: 2050 BTU/hour

## DIMENSIONS

CD12 — 30-in. wide; 24-in. deep; 40-in. high

Floor space required: 5.0 sq. ft.

CD14 — 30-in. wide; 32-in. deep; 60-in. high.

Floor space required: 6.67 sq. ft.

Required total floor space for a CD14 Controller and nine CD12 Drives: 51.67 sq. ft.

## SHIPPING WEIGHT

CD12 — 450 lb. shipping; 350 lb. operating

CD14 — 525 lb. shipping; 425 lb. operating



CALIFORNIA COMPUTER PRODUCTS, INC.  
2411 West La Palma Anaheim, California 92801  
Tel. (714) 821-2011 TWX 910-591-1154