

CONTROL DATA® 9740/9741 DISK STORAGE UNITS

DESIGNED FOR ORIGINAL EQUIPMENT MANUFACTURERS

CONTROL DATA
CORPORATION

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#19.5K



CONTROL DATA 9740 and 9741 Disk Storage Units are large-capacity, random-access storage devices. Both units use the 11-high, removable CDC® 873 Disk Pack, which provides 475×10^6 bits of stored information on nineteen oxide-coated surfaces.

The basic disk storage unit includes a spindle and associated drive motor, head-positioning mechanism, logic chassis, power supply and cabinet enclosure. Head positioning is performed by a closed-loop, proportional-servo

system. The carriage is driven by a voice-coil linear actuator, which provides 35 ms average access time.

These storage units are available in single-channel (9740), or dual-channel (9741) models. Both models obtain head-positioning information from a specially recorded track of the 873 Disk Pack. Disk Packs written on 9740/9741 Disk Storage Units are mechanically interchangeable and magnetically compatible with any other CONTROL DATA 9740/9741 unit having the same recording format.

SPECIFICATIONS

Capacity (full track mode):

62,500 bits/track (normal)
1.2 x 10⁶ bits/cylinder
475 x 10⁶ bits/spindle (normal)

Recording Mode: Double frequency

Recording Density: 1530 bpi, outer track
2200 bpi, inner track

Tracks per Surface: 400 (plus 6 spares)

Normal Bit Rate: 2.5 MHz

Spindle Speed: 2400 rpm

Accessing Time (direct seek, on track):

Full Stroke—70 milliseconds
Average—35 milliseconds
One Track—7 milliseconds

DISK PACK

Type: CDC 873 or equivalent

Number of Disks: 11

Usable Surfaces: 19

Diameter: 14 inches

Coating: Magnetic oxide

RECORDING HEADS PER SPINDLE

Type: Standard CDC

Total Number: 20 (19 read/write heads
and 1 servo head)

Read/Write to Erase Gap: 0.045-inch, nominal

Track Spacing: 0.005-inch, nominal

OPERATOR CONTROLS

Switch/Indicators: Start/Stop
Logic Number (interchangeable
plug)
Fault

Indicator Only: Unit Number
Maintenance

INTERFACE

Transmission Level/s:

Logical "0" = zero volts differential
Logical "1" = 1.4 volts differential

Rise and Fall Time: 25 nanoseconds (nominal)

Transmission Line: Balanced, twisted pair,
terminated in 56 ohms to ground.

POWER

Power Source: Two legs of 208 VAC, 3 phase, 60 Hz

Current: 7.0 amps (disks in motion)
3.0 amps (disks at rest)

PHYSICAL

Height: 38 inches *Depth:* 37½ inches

Width: 27½ inches *Weight:* 600 pounds

ENVIRONMENTAL

Operating Temperature: 60 to 90°F.

Operating Humidity: 10 to 80 percent R.H.
(noncondensing)

Nonoperating Temperature: minus 30 to plus 150°F.

Nonoperating Humidity: 5 to 95 percent R.H.
(noncondensing)

Specifications subject to change without notice.

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