

# 3690-2

MEMMOREX

Get the reliable, high-performance disk storage you need for your System/38 with the Memorex® 3690-2.

After a successful history in IBM 4300 environments, the 3690-2 is available for the first time for your System/38.

Its most important feature is reliability—built in with advanced manufacturing techniques and extensive use of LSI circuitry in the drive and controller electronics. The 3690-2 requires no scheduled preventive maintenance.

Each 3690-2 contains a single spindle with a vertically mounted head disk assembly (HDA), providing 729.8 Mb of data storage accessed by two independently addressable actuators. Each actuator accesses 364.9 Mb of data in fixed block architecture (FBA) format. A seek operation can overlap a concurrent read/write operation within a drive, improving your system's productivity.

### 3690-2 Compatibility

The 3690-2 is fully plug compatible with your IBM CPU. It can replace or complement

IBM 3370 drives with no impact on your operation. A Memorex 3693-2 String Controller and Disk Drive is equivalent to an IBM 3370 model A12. A Memorex 3690-2 Disk Drive is equivalent to an IBM 3370 model B12.

### Automatic Error Detection/Correction

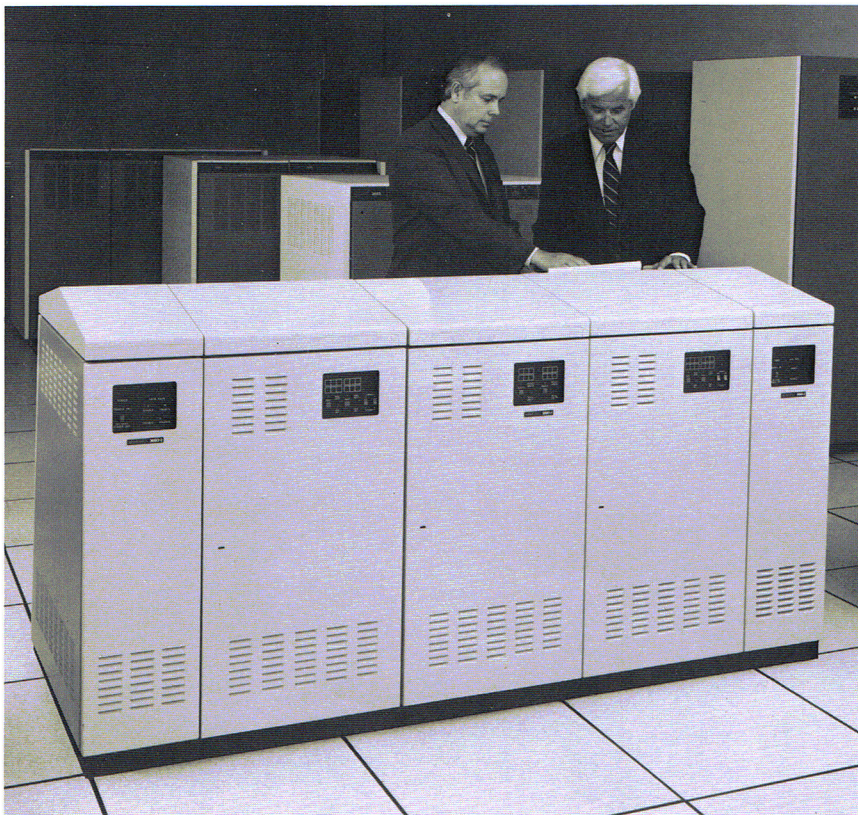
- Detects and corrects all data errors up to 9 bits long
- Reports errors up to 16 bits long

### Drive Availability Improves Productivity

- Automatic position sensing
- Allows logical disconnection during periods of rotational delay
- Greater drive availability

### Read-Only Switch

- Can be set by operator to prevent writing on a selected actuator



System/38 Compatible  
Disk Storage

# The Memorex 3690-2 Disk Storage Specifications

## Capacity

- Capacity Per Spindle: 729.8 Mb
- Actuators Per Spindle: 2
- Capacity Per Actuator: 364.9 Mb
- Cylinders Per Actuator: 958
- Tracks Per Cylinder: 12
- Blocks Per Track: 62
- Capacity Per Block: 512 bytes
- Bit Density (bpi): 12,128
- Track Density (TPI): 810

## Processor Attachment

- System/38, models 6, 200, or 400: One 3693-2 and up to three 3690-2
- System/38, models 8, 18, 20, 40, 400, 600, or 700: Up to two full strings each consisting of one 3693-2 and up to three 3690-2.

## Data Transfer Rate

- 1.859 Mb/sec  $\pm$  3%

## Average Rotational Delay

- Average Latency: 10.1 msec
- Rotational Speed: 2,965 rpm nominal

## Actuator Positioning Time

- Minimum Seek Time: 5 msec
- Average Seek Time: 19 msec
- Maximum Seek Time: 40 msec

## Authorized Memorex Distributor

## Dimensions

- 3693-2:  
Height: 43 in. (109.3 cm)  
Width: 30.5 in. (77.5 cm)  
Depth: 32 in. (81.3 cm)  
Weight: 660 lb (300 kg)
- 3690-2:  
Height: 43 in. (109.3 cm)  
Width: 20.5 in. (52.5 cm)  
Depth: 32 in. (81.3 cm)  
Weight: 463 lb (210 kg)

## Service Clearances

- 3693-2:  
Front: 30 in. (76.2 cm)  
Rear: 30 in. (76.2 cm)  
Side: 23.5 in. (60 cm)
- 3690-2:  
Front: 30 in. (76.2 cm)  
Rear: 30 in. (76.2 cm)  
Side: 23.5 in. (60 cm)

## Air Flow

- 3693-2: 190 cu ft/min (5.4 cu M/min)
- 3690-2: 130 cu ft/min (3.7 cu M/min)

## Power

- 3693-2: 1.2 kVA, 220 V
- 3690-2: 0.8 kVA, 220 V
- 200, 208, 230 V, 60 Hz, 3 phase
- 200, 220, 235, 380 V, 50 Hz, 3 phase

## Operating Environment

- Temperature: 60°–90°F (16°–32°C)
- Relative Humidity: 8%–80% RH
- Altitude: Up to 6,000 ft above sea level, operational

Specifications subject to change.

## Memorex Corporation

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