CalComp's Model T-200 Disk Drive offers OEM designers the advantages of field-proven IBM 3330-type technology and construction. With a capacity of 200 megabytes, this unit has been designed to be functionally compatible with the other drives in the TRIDENT family (T-25, T-50, T-80 and T-300).

High Performance Contamination Control System
Air filters assure that clean air is circulated within a fully closed air system to cleanse and cool critical moving parts, which include the pack, heads and carriage 8 way assembly.

Designed for Easy Maintenance
All subassemblies are modular for ease of maintenance and are conveniently accessible for service without the necessity of major disassembly. Electronic components are functionally organized on pluggable printed circuit modules. An optional exerciser/monitor can be used to test drive operation off-line without unplugging system cabling. The exerciser can also monitor drive performance on-line to the CPU.

Proven Design Features
Disk packs can be obtained from any approved IBM 3336-11 pack supplier. Sector lengths are jumper selected in one byte increments. Rigid one-piece deck plate casting controls instability and mechanical resonance. The high performance phase-locked data separator is a standard feature which is an integral part of the disk drive. The TRIDENT family of disk drives features a commonality of interfaces, allowing a selection of capacities best suited for a given design. A single controller can drive any TRIDENT model without any modification.
# T-200 Disk Drive Specifications and Characteristics

<table>
<thead>
<tr>
<th><strong>Capacity</strong></th>
<th>208.1 megabytes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bytes/Track</strong></td>
<td>13440</td>
</tr>
<tr>
<td><strong>Bytes/Cylinder</strong></td>
<td>255,360</td>
</tr>
<tr>
<td><strong>Cylinders/Pack</strong></td>
<td>815</td>
</tr>
<tr>
<td><strong>Bit Density</strong></td>
<td>4040 bpi</td>
</tr>
<tr>
<td><strong>Track Density</strong></td>
<td>370 tpi</td>
</tr>
<tr>
<td><strong>Transfer Rate</strong></td>
<td>806 kilobytes per second</td>
</tr>
<tr>
<td><strong>Rotational Speed</strong></td>
<td>3600 rpm</td>
</tr>
<tr>
<td><strong>Average Latency Time</strong></td>
<td>8.3 ms</td>
</tr>
</tbody>
</table>
| **Access Time**    | Track to Track: 7.5 milliseconds  
                      Average: 30 milliseconds  
                      Maximum: 55 milliseconds |
| **Start/Stop Time** | Start: 25 seconds (nominal)  
                       Stop: 25 seconds (nominal) |
| **Recording Surfaces** | 19 data and 1 servo surface |
| **Operating Environment** | Temperature: 60° to 100°F (16° to 38°C)  
                                Temperature Gradient: 20°F per hour (11°C per hour)  
                                Humidity: 10% to 80% (no condensation) |

| **Error Rate**     | Recoverable: 1 error in 10¹⁰ bits  
                      Non-recoverable: 1 error in 10¹² bits  
                      Positioning: 1 error in 10⁶ seeks |
| **Reliability**    | MTBF: Designed to exceed 2500 hours  
                      MTTR: Designed to be less than 90 minutes  
                      Service Life: 5 years or 45,000 hours |
| **Controls & Indicators** | Ready Indicator  
                              Fault Indicator  
                              Start/Stop Switch  
                              Degate Switch  
                              Read Only Switch  
                              Interface Enable (Dual Access option only) |
| **Dimensions**     | 19.5" wide x 36" high x 33" deep  
                      (495 mm wide x 914 mm high x 838 mm deep) |
| **Weight**         | 480 pounds (218 kg) |
| **Power Requirements** | 208/240 Vac +10% , -15%  
                                 60 Hz ±0.5 Hz, 50 Hz ±1 Hz  
                                 5 amps-running, 25 amps-starting (10 seconds) |
| **Heat Dissipation** | 3500 BTU/hour (832 kilocalories/hour) |
| **Other Features** | Variable Record Length  
                         NRZ Data Interface  
                         Off-Line Exerciser (Optional)  
                         Dual Access (Optional) |