



Burroughs **B 9470-1/2** **and** **B 9470-11/12** **Head-Per-Track** **Disk Files**

The B 9470 series of head-per-track disk files offers the user very fast random access storage for systems memory, index files, access-time-critical user files and shared system files. The storage modules also offer the user:

- Improved system performance.
- High degree of modularity.
- High reliability.
- Error detection and correction.
- Many access paths.
- Continuous operation design.

General Characteristics

■ Modularity

The B 9470 series of very fast head-per-track storage modules offers an easily expandable amount of storage and number of access paths. A single subsystem can start with 5.9-million bytes of storage and be expanded to 472-million bytes of storage with eight simultaneous access paths per subsystem. A B 9470 subsystem is comprised of at least one B 9470-1 or B 9470-2 storage module and a B 9471-6 disk electronics unit.

The B 9470-1 and B9470-2 are each a combined storage module and power/air supply. These models also may house the B 9471-6 disk electronics unit. A subsystem may be expanded by adding an additional B 9470-1 or B 9470-2 and by adding B 9470-11 or B 9470-12 add-on storage modules. Each add-on module has a storage capacity of 5.5 or 5.9-million bytes and requires one B 9470-1 or B 9470-2 for power and air supply. One B 9471-6 disk electronics unit is required for every four storage modules.

■ Improved performance

The B 9470 series offers 5 milli-second average access times and 650,000-byte-per-second transfer rates.

■ Multiple access paths

The B 9470 series of head-per-track disk files offers up to an 8 by 20 exchange capability for multiple paths from one or several systems.

■ Angular Position Sensing (APS)

Each B 9471-6 disk electronics unit can optimize I/O request based on the angular position of the heads in relation to the sector requested. This provides increased throughput in shared processor systems.

■ Error detection/correction

The B 9471-6 disk electronics unit can detect up to eleven dropped bits out of a 100- or 180-byte sector. This information is then passed to the central system for error correction.

■ Continuous operation design

The B 9471-6 disk electronics unit may optionally be connected to two exchanges for continuous processing configurations.

Storage/Access Characteristics

	B 9470-1	B 9470-11	B 9470-2	B 9470-12
Sector size (bytes)	100	100	180	180
Capacity (M bytes)	5.5	5.5	5.9	5.9
Access (maximum MS)	10	10	10	10
Access (average MS)	5	5	5	5
Transfer rate (KB)	650	650	650	650
Power and air supply	Yes	No	Yes	No

Physical Characteristics

Height	44 inches 111.8 cm	44 inches 111.8 cm	44 inches 111.8 cm	44 inches 111.8 cm
Width	31.5 inches 80 cm	25 inches 63.5 cm	31.5 inches 80 cm	25 inches 63.5 cm
Depth	29 inches 73.7 cm	29 inches 73.7 cm	29 inches 73.7 cm	29 inches 73.7 cm
Net Weight	400 pounds 180 kg	225 pounds 101 kg	400 pounds 180 kg	225 pounds 101 kg
Shipping Weight	475 pounds 214 kg	280 pounds 126 kg	475 pounds 214 kg	280 pounds 126 kg