BASF 6185/6186
Fixed Disk Drive

The BASF 6185 fixed disk drive, based on the Winchester technology, provides an unformatted capacity of 27.5 MBytes with three 5.25" (130 mm) disks. The outer dimensions of the drive are roughly those of conventional 5.25" Mini Disk Drives.
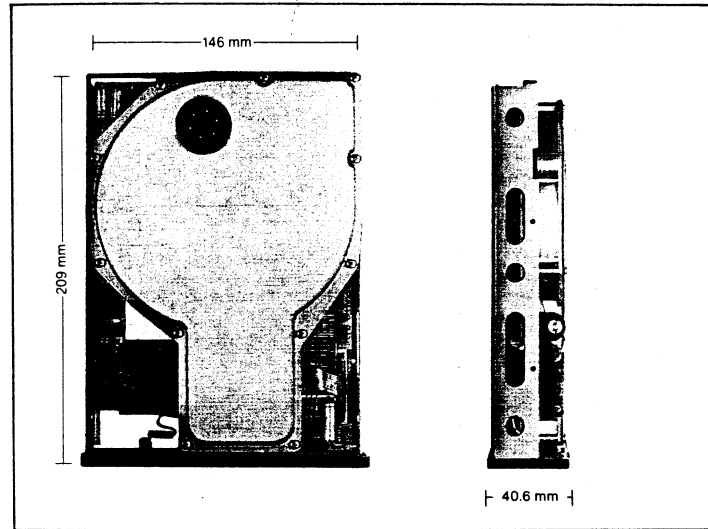
All vital elements – such as the read/write heads with positioning carriage and the directly driven spindle – are contained in a sealed environment.

An absolute breather filter is used for pressure equalization, a second filter is located inside the hermetically sealed head disk assembly to clean the circulating air constantly.

The drive has a microprocessor incorporated which ensures an extremely fast data access (ramped/buffered seek mode). In addition various functions of the drive are continuously controlled by the microprocessor to ensure high reliability. A spindle motor brake and a stepper motor lock provides highest safety standards during transportations.

BASF 6185/6186 Fixed Disk Drive

	BASF 6185	BASF 6186
Capacity (unformatted)	27.5 MBytes	18.3 MBytes
Recording Method	MFM	
Transfer Rate	5 Mbit/s	
Number of data surfaces	6	4
Track density	508 tpi	
Tracks per surface	440	
Rotational speed	3600 rpm	
Bit density	8853 bpi	
Media	oxid coated disks	
Latency (avg.)	8.3 msec	
Access time (track to track)	15 msec	
Access time (avg. 306 cyl.)	81 msec	
Access time (avg. 440 cyl.)	108 msec	
Access time (max. 306 cyl.)	207 msec	
Access time (max. 440 cyl.)	290 msec	
Head settling time	15 msec	
Physical dimensions	Height 82.55 mm (3.25 inches) Width 146 mm (5.75 inches) Depth 209 mm (8.23 inches)	
Interface	ST 412	
Weight	28 N (2.8 kg) (6.2 lbs)	
Voltage	+ 12 V ± 10%, + 5V ± 5%	
Power consumption	18 W typ.	
Environmental conditions:		
Ambient Temperature	4°C – 50°C	
Humidity (Max. Wetbulb Temp. 25°C)	15% – 80%	
MTBF	> 11,000 hours	
Lifetime	5 years	
MTTR	30 min.	
Error rates	Soft error 1 per 10^{10} bits read Hard error 1 per 10^{12} bits read Seek error 1 per 10^{6} seeks	

BASF 6188 Slim line
Fixed Disk Drive

The BASF 6188 half height fixed disk drive is based on Winchester technology and provides an unformatted capacity of 15.0 MBytes with two 5.25" (130 mm) disks. The height is only 1.60" (40.6 mm), width and length are roughly the same as those of 5.25" mini disk drives.

All vital elements – such as the read/write heads with positioning carriage and the directly driven spindle – are contained in a sealed environment.

An absolute breather filter is used for pressure equalization, a second filter is located inside the hermetically sealed head disk assembly to clean the circulating air constantly.

The drive has a microprocessor incorporated which ensures an extremely fast data access (ramped/buffered seek mode).

In addition various functions of the drive are continuously controlled by the microprocessor to ensure high reliability.

A spindle motor brake and a stepper motor lock provides highest safety standards during transportations.

BASF 6188 Fixed Disk Drive

Capacity (unformatted)	15.0 MBytes
Recording Method	MFM
Transfer Rate	5 Mbit/s
Number of data surfaces	4
Track density	406 tpi
Tracks per surface	360
Rotational speed	3600 rpm
Bit density	8900 bpi
Media	oxid coated disks
Latency (avg.)	8.3 msec
Access time (track to track)	15 msec
Access time (avg. 306 cyl.)	78 msec
Access time (avg. 360 cyl.)	87 msec
Access time (max. 306 cyl.)	171 msec
Access time (max. 360 cyl.)	197 msec
Head settling time	15 msec
Physical dimension	Height 40.6 mm (1.60") Width 146 mm (5.75") Depth 203 mm (8.0")
Interface	ST 412
Weight	14 N (1.4 kg) (3.1 lbs)
Voltage	+ 12 V ± 10%, + 5 V ± 5%
Power consumption	17 W typ.
Environmental conditions:	
Ambient Temperature	4°C – 50°C
Humidity (Max. Wetbulb Temp. 25°C)	15% – 80%
MTBF	> 11,000 hours
Lifetime	5 years
MTTR	30 min.
Error rates	Soft error 1 per 10^{10} bits read Hard error 1 per 10^{12} bits read Seek error 1 per 10^{6} seeks