

Symmetrix 5330-18

Mainframe and Open Systems Specifications

Sample Configuration Data

Physical Disks	Mirrored Capacity (GB)*		RAID-S Capacity (GB)*		SRDF Capacity (GB)*		Maximum Cache (MB)**
	Mainframe	Open	Mainframe	Open	Mainframe	Open	
4	35	36	53	54	71	72	8,192
8	71	72	107	108	143	144	8,192
12	107	108	161	162	214	217	8,192
16	143	144	214	217	286	289	8,192
24	214	217	322	325	429	434	8,192
32	286	289	429	434	572	579	8,192

Note: Hyper-Volume Extension can increase the number of logical volumes to 1,024 maximum.

*All capacities are based on 1GB=1,000,000,000 bytes. For AS/400 capacities, contact your EMC sales representative.

**Individual model cache capacities are based upon specific configurations and customer requirements.

Host Connectivity

All Models	Mainframe		Open Systems	
	Min.	Max.	Min.	Max.
ESCON®	4	16	—	—
Parallel	8	16	—	—
Fibre Channel*	—	—	4	8
Ultra SCSI*	—	—	8	16
FWD SCSI*	—	—	8	16

Note: Mixed ESCON, Parallel, FWD SCSI, Ultra SCSI, and Fibre Channel interfaces are supported.

*ESP-5300 software is required to run Fibre Channel, Ultra SCSI or FWD SCSI.

Disk Emulation

	3380K	3390-1	3390-2	3390-3	3390-9	FBA
MB/Volume	1,891	946	1,892	2,838	8,514	15,979*
Bytes/Track	47,476	56,664	56,664	56,664	56,664	32,768
Bytes/Cylinder	712,140	849,960	849,960	849,960	849,960	491,520
Cylinders/Volume	2,655	1,113	2,226	3,339	10,017	32,510*

*Values represent maximum figures for each configuration.

Hyper-Volume Extension (HVE)

Emulation Mode*	Mainframe					Open Systems	
	3380K**	3390-1	3390-2**	3390-3**	3390-9**	2GB**	4GB**
Maximum Complete Logical Volumes	9	18	9	6	2	8	4

Hyper-Volume Extension provides the ability to configure a single physical disk device as multiple logical volumes in logical-to-physical relationships ranging from 1:1 to 32:1.

*A single physical disk device can support multiple model types within a single data format emulation mode.

**This emulation mode provides additional space on the physical disk device for use as either a lower than full capacity logical volume for the specified emulation mode, or as a different, smaller model type within the same emulation mode.

Available Software

Model Number	Description
ESP-5300	ESP Enabler software license
FDRSOS	Fast Dump/Restore, Safeguard Open Systems software license*
INFOMOVE-5300	EMC InfoMover Software License
OSYMGR-BAS**	Symmetrix Manager for Open Systems, Base Component software license
OSYMGR-CTL**	Symmetrix Manager for Open Systems, Control Option software license (requires OSYMGR-BAS)
OSYMGR-DDR**	Symmetrix Manager for Open Systems, DDR Option (requires OSYMGR-BAS)
PowerPathxxx	EMC PowerPath suite of software licenses
SDM-5300	Symmetrix Data Migration Services software license
SMTF-5300	Symmetrix Multihost Transfer Facility software license (requires ESP)
SRDF-5300	Symmetrix Remote Data Facility software license
SRDF-5000 FP	Symmetrix Remote Data Facility FarPoint software license (requires SRDF-5300)
SRDF-HC	SRDF Host Component software license
SYMMGR	Symmetrix Manager Base Component software license
TimeFinder-5000	EMC TimeFinder software license

*See an Innovation Data Processing sales representative for additional information.

**Also available with Windows NT graphical user interface (GUI).

SYMMETRIX 5330-18

EMC²

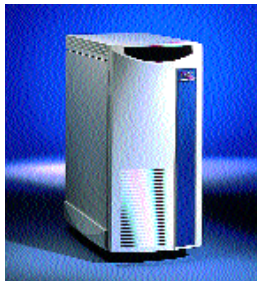
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Multihost Support

Vendor	System	Minimum Operating System
Bull®	Escala Series M, D, R, E, T, RT, Escala Series, RL, RL470	AIX 4.2.1, AIX 4.3
DEC®	AlphaStation and AlphaServer Series 3000 AXP, Models: 300-900, 1000, 2000, 2100, 4000/4100, 8200, & 8400	Digital® UNIX® V3.2A, OpenVMS® V6.2, Windows NT® V3.5.1
Data General®	Avion® 5500 (88K-based), 4900/5000 (Intel-based)	DG/UX® R4.11 MU03
Data General	AV4900, AV5900 (Pentium®)	Windows NT V4.0
HP®	3000/900 Series	MPE/ix 5.0
HP	9000/700 Series: 725/100, 735/99, 735/125, 755/99, 755/125, 715/100XC, B-Series, C-Series, J-200, J-210, J-210CX, J-250	HP-UX® 9.05, 10.01
HP	9000/800 Series: E, F, G, H, I, T500, D-Class, K-Class, T600 TFC	HP-UX 9.04, 10.01, 10.20 TFC
HP	9000 K-Class, T600, D-Class, V-Class (V2200, V2250)	HP-UX 9.04, HP-UX 10.01, HP-UX 11.0
IBM®	AS/400® (all 9406 including RISC, except Model B)	OS/400® V2R3
IBM	RS/6000™	AIX® 3.2.5
IBM	SP®	AIX 4.2.1
IBM	S/390® & S/370™	Any
ICL	SmartController SDS	Open VME 2
Intel®-Based Servers	All	Novell® 3.12, OS/2® 2.1, Windows NT 3.5
NCR®	34xx, 35xx, 41xx, 45xx, 3600AP, 5100 (S, C, M), 4300, 4700, 5150	UNIX SVR4 2.03.01 & 3.01, Windows NT 4.0
Pyramid	Nile Series	Data Center OSx 94D070.6
Sequent®	Symmetry® 2000 & 5000, NUMA-Q	DYNIX/ptx® 2.1.5, 4.3.0
Siemens-Nixdorf®	RM 400/600, RM 400C/600E	SINIX® V5.42, Reliant UNIX V5.43C10
Siemens-Nixdorf	400C/600E	Reliant UNIX V5.43C10
Siemens-Pyramid®	Nile® Series, RM1000	DataCenter® OSx 94D079.6, 95M079
Silicon Graphics®	Challenge® S, L, DM, & XL	IRIX® 5.3
Silicon Graphics	Origin 200 and 2000	IRIX 6.4.1
Sun®	SPARCserver® and SPARCcenter 10, 20, 1000, 2000	SunOS® 4.1.3, Solaris® 2.3
Sun	UltraSPARC PCI-based, Ultra, Netra, & UltraEnterprise Workstations and Servers	Solaris 2.5, Solaris 2.6
Unisys®	SMP61000, U6000/XXX, AQUANTA Series Servers	UNIX SVR4 1.4 & 1.3.1, Windows NT V4.0,

Note: Contact your local EMC sales representative for specific hardware and software configuration support.

Physical Specifications*

Model Series	Height** (in/cm)	Width (in/cm)	Depth (in/cm)	Front Service Area (in/cm)	Rear Service Area (in/cm)
5330	46.0/116.9	21.0/53.3	36.0/91.5	36.0/91.5	36.0/91.5

**An additional 18 inches (45.7cm) is required for ceiling/top clearance.

Weight*

Physical Volumes	4	8	12	16	24	32
Weight (lb/kg)	571/259	583/265	595/270	607/276	631/286	655/297

Power and Cooling Data*

Physical Volumes	4	8	12	16	24	32
Power Consumption (kVA)	0.848	0.951	1.053	1.155	1.359	1.547
Heat Dissipation (Btu/hr)	2,809	3,147	3,485	3,823	4,498	5,174

Power Specifications

	North America	International
Input Voltage (VAC)	208	Country Specific
Frequency (Hz)	60, single phase	Country Specific
Circuit Breaker (Amps), max.	20	Country Specific
User Connector	(2) Russellstoll® 3913 flex or (2) Russellstoll 3743 rigid	Country Specific
Power Connector	Russellstoll 3720	Country Specific
Auto-Call Modem Requirements	The Auto-Call modem requires connection to a 110VAC power source at 60Hz through a NEMA 5-15R receptacle. International installations are country specific.	

Note: Symmetrix 5330-18 now comes with two power connectors.

Environmental Specifications (operating)

Temperature (°F/°C)	59–90°F/10–38°C
Altitude (ft/m), max.	8,000/2,500
Humidity (%), non-condensing	10–80/5–99 (non-operating)
Raised Floor	Required for parallel connections; recommended for all other connections

*Values represent maximum figures for each configuration.



The information presented here is summary in nature, subject to change, and intended for general information only. Additional details and specifications concerning the operation and use of EMC equipment and software are available in the applicable technical literature.

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Specification Sheet
L770.2