

# NetApp® F700 Series Specifications

Operating System	Network Appliance™ Data ONTAP™ software
Standard Software Features	Integrated automatic RAID manager, Snapshot™ feature, Fast Boot, telnet, e-mail alerts, NIS, DNS, SNMP, Web Browser Management Console. All software is factory pre-configured. Typical system startup in under 10 minutes.
Network Protocol Support	NFS v2 / v3 over UDP or TCP, PCNFSD v1 / v2 for (PC)NFS client authentication, Microsoft® CIFS with NT LM 0.12 using NetBios over TCP / IP, HTTP 1.0, HTTP 1.1 Virtual Hosts

<b>Filer Specifications</b>	<b>NetApp F720</b>	<b>NetApp F740</b>	<b>NetApp F760</b>
Relative Performance (NFS Ops per sec. under 10 msec.)	2,691	5,095	7,750
ECC Memory	256 MB	512 MB	1 GB
Non-volatile Memory (redundant batteries)	8 MB	32 MB	32 MB
PCI Expansion Capacity	3 adapters	6 adapters	8 adapters
Optional Network Connectivity (PCI)	Single or Quad Port 10/100BASE-T Ethernet, Gigabit Ethernet, FDDI, ATM	Single or Quad Port 10/100BASE-T Ethernet, Gigabit Ethernet, FDDI, ATM	Single or Quad Port 10/100BASE-T Ethernet, Gigabit Ethernet, FDDI, ATM
<b>RAID Storage Capacity</b>			
Maximum disk drives	56	112	168
Maximum SCSI / 9 / 18 / 36 FC-AL Disk Drives	26/56/28/14	52/112/56/28	52/168/84/42
Maximum SCSI Disk Shelves	4	8	8
Maximum FC-AL Disk Shelves	8	16	24
Maximum Disk Drives per FC Loop	56	56	56
Maximum Raw Storage Capacity	500 GB	1 TB	3 TB
File Systems (Minimum / Maximum)	1 / 23	1 / 23	1 / 23
Minimum RAID Group Size	1 data / 1 parity	1 data / 1 parity	1 data / 1 parity
Maximum RAID Group Size	27 data / 1 parity	27 data / 1 parity	27 data / 1 parity
Disk Drives	9 / 18 / 36 GB FC-AL 9 GB UltraSCSI	9 / 18 / 36 GB FC-AL 9 GB UltraSCSI	9 / 18 / 36 GB FC-AL 9 GB UltraSCSI
Fibre Channel Arbitrated Loop (FC-AL)	●	●	●
Wide / Differential SCSI for Tape	●	●	●
Full-duplex 10/100BASE-T (onboard)	●	●	●
Floppy drive	●	●	●
Diagnostic LEDs / LCD Display	●	●	●
19-inch Rack-mount Enclosure	●	●	●
Redundant Hot-plug System Cooling Fans	●	●	●
Redundant Hot-plug Power Supplies	○	●	●
Cluster Failover Capable	—	○	○
Wide / Differential SCSI for Disk	○	○	○
External DLT 7000 Tape Drive	○	○	○
220V 36 U 19" System Cabinet	○	○	○

● : standard   ○ : optional

<b>Environment</b>	<b>NetApp F700 series filers</b>
AC Power / Maximum Current	90-250 VAC / 4 A at 90 VAC
Operating Environment	10° C to 40° C (50° F to 104° F) 10% to 90% relative humidity, non-condensing
Non-operating Environment	-20° C to 65° C (-4° F to 149° F) 8% to 95% relative humidity, non-condensing, in original container
Thermal Rating	1,025 BTU / hour
Operating Acoustic Noise	45 dBA at 3 meters
Height	22.23 cm (8.75 inches)
Width	43.82 cm (17.25 inches)
Depth	60.96 cm (24 inches)
Minimum Clearance	3.81 cm (1.5 inches) top rear; 2.54 cm (1 inch) front; 60.96 cm (24 inches) rear
Weight	29.03 kg (64 lbs.)

**Storage Subsystem Specifications**

Host Interface	On-board Fibre Channel Arbitrated Loop (FC-AL), optional dual-port Wide / Differential SCSI PCI adapter, optional FC-AL PCI adapter
Disk Drive Storage Shelf	Dual StorageShelf 2: up to 13 Wide/Differential SCSI disk drives in a 2-shelf system. StorageShelf FC8: up to 7 (9 GB/18 GB) FC-AL disk drives per shelf.
Cooling Fans / Power Supplies	Dual redundant cooling fans: hot-pluggable redundant power supplies (110/220 V) autosensing.

<b>Environment</b>	<b>Dual StorageShelf 2</b>	<b>StorageShelf FC7</b>	<b>StorageShelf FC8</b>
AC Power / Maximum Current	110 or 220 VAC / 6 A at 110 VAC	110 or 220 VAC / 3 A at 110 VAC	90-250 VAC / 4/2 A at 110/220 VAC
Operating Environment	10° C to 40° C (50° F to 104° F) 10% to 90% relative humidity, non-condensing	10° C to 40° C (50° F to 104° F) 10% to 90% relative humidity, non-condensing	10 C to 40 C (50 F to 104 F) 10% to 90% relative humidity, non-condensing
Non-operating Environment	-20° C to 65° C (-4° F to 149° F) 5% to 95% relative humidity, non-condensing	-40° C to 65° C (-40° F to 149° F) 5% to 95% relative humidity, non-condensing	-40 C to 65 C (-40 F to 149 F) 5% to 95% relative humidity, non-condensing
Thermal Rating	936 BTU / hour (two shelf system)	529 BTU / hour (single shelf)	890 BTU / hour (single shelf)
Operating Acoustic Noise	45 dBA at 3 meters	45 dBA at 3 meters	45 dBA at 3 meters
Height	26.6 cm (10.48 inches) — two shelf unit	13.0 cm (5.12 inches)	13.0 cm (5.12 inches)
Width	45 cm (17.72 inches)	44.5 cm (17.5 inches)	44.5 cm (17.5 inches)
Depth (with fans)	33.8 cm (13.31 inches)	35.1 cm (13.8 inches)	35.1 cm (13.8 inches)
Weight	36.29 kg (79.84 lbs.) with 13 disk drives and four power supplies	19.85 kg (43.66 lbs.) with 7 disk drives and two power supplies	19.85 kg (43.66 lbs.) with 7 disk drives and two power supplies

<b>Regulations</b>	<b>NetApp F700 series filers, StorageShelf 2, StorageShelf FC7, StorageShelf FC8</b>
Safety	EN 60950:1992, IEC 801-2:1984, EC 801-3:1984, EC 801-4:1988, UL1 950, CSA 950, TUV 950
RFI / EMI EMC	FCC Class A, EN 55022:1987, IEC 801-3:1984, IEC801-4:1988, CE
Immunity	EN 50082-1:1992

