

# 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  |

| Filer Specifications                                      | NetApp F720  | NetApp F740  | NetApp F760  |
|---|--|--|--|
| Relative Performance<br>(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 |
| RAID Storage Capacity                                     |  |  |  |
| 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 Storage Capacity                                  | 464.4 GB   | 928.8 GB   | 1.39 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<br>9 GB UltraSCSI                                 | 9 / 18 / 36 GB FC-AL<br>9 GB UltraSCSI                                 | 9 / 18 / 36 GB FC-AL<br>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

| Environment                | NetApp F700 series filers   |
|----------------------------|---|
| AC Power / Maximum Current | 90-250 VAC / 4 A at 90 VAC  |
| Operating Environment      | 10° C to 40° C (50° F to 104° F)<br>10% to 90% relative humidity, non-condensing                        |
| Non-operating Environment  | -20° C to 65° C (-4° F to 149° F)<br>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.<br>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)<br>10% to 90% relative humidity,<br>non-condensing | 10° C to 40° C (50° F to 104° F)<br>10% to 90% relative humidity,<br>non-condensing  | 10 C to 40 C (50 F to 104 F)<br>10% to 90% relative humidity,<br>non-condensing  |
| Non-operating Environment  | -20° C to 65° C (-4° F to 149° F)<br>5% to 95% relative humidity,<br>non-condensing | -40° C to 65° C (-40° F to 149° F)<br>5% to 95% relative humidity,<br>non-condensing | -40 C to 65 C (-40 F to 149 F)<br>5% to 95% relative humidity,<br>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<br>drives and four power supplies                | 19.85 kg (43.66 lbs.) with 7 disk<br>drives and two power supplies                   | 19.85 kg (43.66 lbs.) with 7 disk<br>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  |

