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	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
Storage Limits			
Max Number of Drives (Total)	48	48	96
Max Number of Internal Drives	24	24	24
Max Number of NVMe SSD Drives	48	48	96
Max Number of SSD Drives	24	N/A	48
Max Number of DS2246 Shelves	1 external	N/A	2 external
Max Number of DS224C Shelves	1 external	N/A	2 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	1 internal + 1 external	1 internal + 1 external	2 internal + 2 external
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	1,101,600	734,400	N/A
HA Pair	1,101,600	734,400	N/A
Cluster	N/A	N/A	2,203,200
Effective Capacity			
Node	4,889,451.60	3,259,634.40	N/A
HA Pair	4,889,451.60	3,259,634.40	N/A
Cluster	N/A	N/A	9,778,903.20
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	N/A	N/A	32
HA Pair	N/A	N/A	64
Cluster	512	512	64
Maximum number of LIFs - NAS			
Node	512	512	256
HA Pair	512	512	256
Cluster	3,072	3,072	N/A
Maximum number of connections - NAS			
Node	100,000	100,000	25,000
HA Pair (Non-Scalable)	100,000	100,000	25,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	N/A	N/A	250
Aggregate (Multiple data Aggregates per Node)	N/A	N/A	200
Node	1,000	1,000	250
HA Pair	2,000	2,000	500
Cluster	12,000	12,000	N/A
Maximum number of flexible volumes with DPO - NAS			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A

	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	1,200,000	1,200,000	700,000
HA Pair	1,200,000	1,200,000	1,024,000
Cluster	12,288,000	12,288,000	N/A
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	191,488	191,488	191,488
Minimum Root Aggregate (with core dump device) (MiB)			
Node	N/A	N/A	N/A
Minimum Root Volume (GiB)			
Node	150	150	150
Minimum Root Volume (with core dump device) (GiB)			
Node	N/A	N/A	N/A
Maximum IPsec Policies			
SVM	256	256	N/A
Cluster	1,500	1,500	N/A
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	50	50	25
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	24 / 12	24 / 12	2 / 2
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	100 TiB	100 TiB	100 TiB
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	150 GiB	150 GiB	150 GiB
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 12-core 2.10 Ghz	64-bit 12-core 2.10 Ghz	64-bit 12-core 2.10 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.10 Ghz	2.10 Ghz	2.10 Ghz
Processor Count (Per Node)	1	1	1
Processor Count (Per Config)	2	2	4
Processor Cores (Per CPU)	12	12	12
Processor Cores (Per Node)	12	12	12
Processor Cores (Per Config)	24	24	48
Memory			

	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
NVMEM (Per Node)	8 GB	8 GB	8 GB
NVMEM (Per Config)	16 GB	16 GB	32 GB
NVRAM (Per Node)	N/A	N/A	N/A
NVRAM (Per Config)	N/A	N/A	N/A
RAM (Per Node)	64 GB	64 GB	64 GB
RAM (Per Config)	128 GB	128 GB	256 GB
Onboard Ports			
Ethernet Ports	4 x RJ45 (10Gb)	4 x RJ45 (10Gb)	4 x RJ45 (10Gb)
UTA2 Ports	-	-	-
Expansion Slots	4 x PCIe3	4 x PCIe3	4 x PCIe3
SAS Ports	-	-	-
Physical Characteristics			
Rack Units	2	2	4
Chassis Height	3.43" (8.7 cm)	3.43" (8.7 cm)	3.43" (8.7 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.6" (44.7 cm)	17.6" (44.7 cm)	17.6" (44.7 cm)
Chassis Depth with Cable Mgmt	-	-	-
Chassis Depth without Cable Mgmt	21.38" (54.3 cm)	21.38" (54.3 cm)	21.38" (54.3 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	24.03" (61 cm)	24.03" (61 cm)	24.03" (61 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	36.01" (91.4 cm)	36.01" (91.4 cm)	36.01" (91.4 cm)
Environmental Requirements			
Operating Temperature Range	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 80 %	8 to 80 %	8 to 80 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	7.2 bels	7.2 bels	7.2 bels
Acoustic Noise - Sound Pressure	69.1 dBA	69.1 dBA	69.1 dBA
Input Power Voltage	200 to 240;	100 to 120;	200 to 240;
Storage OS Requirements (for selected major version)			

	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware	* indicates that firmware is bundled with Storage OS		
Version			
BIOS	17.7, 17.6, 17.4*	17.7, 17.6, 17.4*	17.7, 17.6, 17.4*
BMC	15.5P1, 15.5, 15.4, 15.3*	15.5P1, 15.5, 15.4, 15.3*	15.5P1, 15.5, 15.4, 15.3*
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	N/A	N/A	N/A
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	N/A	N/A	N/A
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	Oct 2020	May 2021	Nov 2020
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	24,000	24,000	6,000
Maximum number of Export Rules			
Cluster	200,000	200,000	35,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	512
Maximum number of client objects			
Node	100,000	100,000	102,400
HA Pair	100,000	100,000	102,400
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	1,048,576	1,048,576	N/A

	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	1,023	1,023	255
Node	1,023,000	1,023,000	63,750
HA Pair	2,046,000	2,046,000	127,500
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	100,000	100,000	15,000
HA Pair	200,000	200,000	30,000
Cluster	400,000	400,000	N/A
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	16	16	16
HA Pair (Non-Scalable)	16	16	16
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	12,000	12,000	6,000
Maximum number of QoS user workloads			
Cluster	40,000	40,000	20,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	125	125	32
HA Pair	250	250	64
Cluster	1,000	1,000	64
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	N/A	N/A	250
Aggregate (Multiple data Aggregates per Node)	N/A	N/A	200
Node	1,000	1,000	250

	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
HA Pair	2,000	2,000	500
Cluster	8,000	8,000	500
Maximum number of flexible volumes with DPO - SAN			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	8,192	8,192	4,096
HA Pair	16,384	16,384	8,192
Cluster	65,536	65,536	8,192
Maximum number of LUN mappings			
Node	8,192	8,192	4,096
HA Pair	16,384	16,384	8,192
Cluster	65,536	65,536	8,192
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	512	512	256
Node	4,096	4,096	2,048
HA Pair	8,192	8,192	4,096
Cluster	32,768	32,768	4,096
Maximum number of LIFS - iSCSI			
Port	32	32	16
Portset	32	32	32
Node	512	512	128
HA Pair	1,024	1,024	256
Cluster	4,096	4,096	256
Maximum number of LIFS - FCP			
Port	32	32	16
Portset	32	32	32
Node	512	512	128
HA Pair	1,024	1,024	256
Cluster	4,096	4,096	256
Maximum number of igroups			
Node	2,048	2,048	1,024
HA Pair	4,096	4,096	2,048
Cluster	16,384	16,384	2,048
Maximum number of initiators			
igroup	256	256	256
Node	2,048	2,048	1,024
HA Pair	4,096	4,096	2,048
Cluster	16,384	16,384	2,048
Maximum number of portsets			
Node	2,048	2,048	1,024
HA Pair	4,096	4,096	2,048

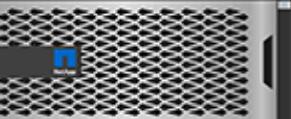
	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
Cluster	16,384	16,384	2,048
Maximum number of iSCSI sessions			
Node	4,096	4,096	2,048
HA Pair	8,192	8,192	4,096
Cluster	32,768	32,768	4,096
CIFS Cluster Limits			
Maximum number of connected shares			
Node	800,000	800,000	400,000
HA Pair	800,000	800,000	400,000
Maximum number of regular shares			
Node	N/A	N/A	150,000
HA Pair	N/A	N/A	150,000
Cluster	300,000	300,000	N/A
Maximum number of open files			
Connection	65,536	65,536	65,536
Node	1,500,000	1,500,000	350,000
HA Pair	1,500,000	1,500,000	350,000
Maximum number of local users			
Cluster	35,000	35,000	17,500
Maximum number of local groups			
Cluster	320,000	320,000	160,000
Maximum number of local group members			
Cluster	640,000	640,000	320,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	1,000	1,000	250
HA Pair	2,000	2,000	500
Cluster	12,000	12,000	N/A
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	100	100	100
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	2

	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
Maximum number of clusters that can be peered			
Cluster	255	255	8
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	200	200	N/A
FlexGroup/Node	50	50	N/A
HA Pair	1,000	1,000	N/A
Cluster	6,000	6,000	N/A
Maximum number of SnapMirror Synchronous relationships			
Volume	1	1	N/A
Node	160	160	N/A
HA Pair (Non-Scalable)	160	160	N/A
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	5	5	N/A
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	12	12	N/A
HA Pair (Non-Scalable)	60	60	N/A
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	32	32	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	1,000	1,000	N/A
HA Pair	2,000	2,000	N/A
Cluster	8,000	8,000	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespaces			
Volume	512	512	N/A
Node	512	512	N/A
HA Pair	1,024	1,024	N/A

	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
Cluster	4,096	4,096	N/A
Maximum number of subsystems			
SVM	12	12	N/A
Cluster	64	64	N/A
Maximum number of namespace mappings			
Subsystem	512	512	N/A
Node	512	512	N/A
HA Pair	1,024	1,024	N/A
Cluster	4,096	4,096	N/A
Maximum namespace size			
Namespace	16	16	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	32	32	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	4	4	N/A
Maximum number of hosts			
Subsystem	64	64	N/A
Maximum number of LIFS - NVMe/oF			
Port	16	16	N/A
SVM	8	8	N/A
Node	32	32	N/A
HA Pair	32	32	N/A
Cluster	32	32	N/A
Maximum number of controllers - NVMe/FC			
Port	64	64	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	100	100	N/A
Max origin volumes			
Node	100	100	N/A
HA Pair	200	200	N/A
Max cache constituent volumes			
Node	800	800	N/A
HA Pair	1,600	1,600	N/A
Max cache volumes			
Node	100	100	N/A
HA Pair	200	200	N/A
Max origin constituent volumes			
Node	800	800	N/A
HA Pair	1,600	1,600	N/A
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	12,000	12,000	N/A
Cluster	12,000	12,000	N/A
Maximum Number of Objects			

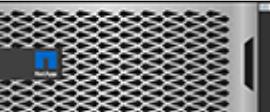
	AFF A250 Single Chassis HA Pair	AFF A250 100V Single Chassis HA Pair	AFF A250 4-Node MetroCluster IP
Specifications			
Bucket	400,000,000,000	400,000,000,000	N/A
Maximum Number of Users			
Vserver	4,000	4,000	N/A
Cluster	96,000	96,000	N/A
Maximum Size of the Bucket (PB)			
Vserver	20	20	N/A

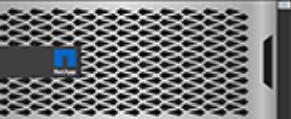
	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
Storage Limits			
Max Number of Drives (Total)	480	480	960
Max Number of Internal Drives	N/A	N/A	N/A
Max Number of NVMe SSD Drives	96	96	192
Max Number of SSD Drives	480	480	960
Max Number of DS2246 Shelves	20 external	20 external	40 external
Max Number of DS224C Shelves	20 external	20 external	40 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	4 external	4 external	8 external
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	14,688,000	14,688,000	N/A
HA Pair	14,688,000	14,688,000	N/A
Cluster	N/A	N/A	29,376,000
Effective Capacity			
Node	65,192,688	65,192,688	N/A
HA Pair	65,192,688	65,192,688	N/A
Cluster	N/A	N/A	130,385,376
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	N/A	N/A	32
HA Pair	N/A	N/A	64
Cluster	1,024	1,024	64
Maximum number of LIFs - NAS			
Node	512	512	256
HA Pair	512	512	256
Cluster	3,072	3,072	N/A
Maximum number of connections - NAS			
Node	100,000	100,000	50,000
HA Pair (Non-Scalable)	100,000	100,000	50,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	N/A	N/A	250
Aggregate (Multiple data Aggregates per Node)	N/A	N/A	200
Node	2,500	2,500	500
HA Pair	5,000	5,000	1,000
Cluster	12,000	12,000	N/A
Maximum number of flexible volumes with DPO - NAS			
Node	2,500	2,500	N/A
HA Pair	5,000	5,000	N/A
Cluster	12,000	12,000	N/A

	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	1,200,000	1,200,000	1,024,000
HA Pair	1,200,000	1,200,000	1,024,000
Cluster	12,288,000	12,288,000	N/A
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	191,488	191,488	191,488
Minimum Root Aggregate (with core dump device) (MiB)			
Node	N/A	N/A	N/A
Minimum Root Volume (GiB)			
Node	150	150	150
Minimum Root Volume (with core dump device) (GiB)			
Node	N/A	N/A	N/A
Maximum IPsec Policies			
SVM	256	256	N/A
Cluster	1,500	1,500	N/A
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	50	50	25
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	24 / 12	24 / 12	2 / 2
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	100 TiB	100 TiB	Not Supported
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	150 GiB ^[1]	150 GiB ^[1]	150 GiB ^[1]
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.20 Ghz	2.20 Ghz	2.20 Ghz
Processor Count (Per Node)	2	2	2
Processor Count (Per Config)	4	4	8
Processor Cores (Per CPU)	10	10	10
Processor Cores (Per Node)	20	20	20
Processor Cores (Per Config)	40	40	80
Memory			

	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
NVMEM (Per Node)	N/A	N/A	N/A
NVMEM (Per Config)	N/A	N/A	N/A
NVRAM (Per Node)	16 GB	16 GB	16 GB
NVRAM (Per Config)	32 GB	32 GB	64 GB
RAM (Per Node)	128 GB	128 GB	128 GB
RAM (Per Config)	256 GB	256 GB	512 GB
Onboard Ports			
Ethernet Ports	4 x QSFP28 (40Gb) 8 x SFP28 (25Gb)	4 x QSFP28 (40Gb)	4 x QSFP28 (40Gb) 12 x SFP28 (25Gb)
UTA2 Ports	-	-	-
Expansion Slots	10 x PCIe3	10 x PCIe3	10 x PCIe3
SAS Ports	8 x MiniSAS HD (12Gb)	8 x MiniSAS HD (12Gb)	8 x MiniSAS HD (12Gb)
Physical Characteristics			
Rack Units	4	4	8
Chassis Height	6.89" (17.5 cm)	6.89" (17.5 cm)	6.89" (17.5 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.6" (44.7 cm)	17.6" (44.7 cm)	17.6" (44.7 cm)
Chassis Depth with Cable Mgmt	34.72" (88.2 cm)	34.72" (88.2 cm)	34.72" (88.2 cm)
Chassis Depth without Cable Mgmt	32.6" (82.8 cm)	32.6" (82.8 cm)	32.6" (82.8 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	34.51" (87.6 cm)	34.51" (87.6 cm)	34.51" (87.6 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	36.01" (91.4 cm)	36.01" (91.4 cm)	36.01" (91.4 cm)
Environmental Requirements			
Operating Temperature Range	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 80 %	8 to 80 %	8 to 80 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	8.5 bels	8.5 bels	8.5 bels
Acoustic Noise - Sound Pressure	67.2 dBA	67.2 dBA	67.2 dBA
Input Power Voltage	100 to 120; 200 to 240;	100 to 120; 200 to 240;	100 to 120; 200 to 240;
Storage OS Requirements (for selected major version)			

	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*
BMC	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	N/A	N/A	N/A
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	n/a	n/a	n/a
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	Nov 2019	Nov 2019	Nov 2020
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	24,000	24,000	6,000
Maximum number of Export Rules			
Cluster	200,000	200,000	70,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	100,000	100,000	102,400
HA Pair	100,000	100,000	102,400
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	12,288,000	12,288,000	N/A

	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	1,023	1,023	255
Node	1,023,000	1,023,000	63,750
HA Pair	2,046,000	2,046,000	127,500
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	100,000	100,000	15,000
HA Pair	200,000	200,000	30,000
Cluster	2,400,000	2,400,000	N/A
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	16	16	8
HA Pair (Non-Scalable)	16	16	8
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	12,000	12,000	6,000
Maximum number of QoS user workloads			
Cluster	40,000	40,000	20,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	125	125	32
HA Pair	250	250	64
Cluster	1,000	1,000	64
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	N/A	N/A	250
Aggregate (Multiple data Aggregates per Node)	N/A	N/A	200
Node	2,500	2,500	500

	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
HA Pair	5,000	5,000	1,000
Cluster	8,000	8,000	1,000
Maximum number of flexible volumes with DPO - SAN			
Node	2,500	2,500	N/A
HA Pair	5,000	5,000	N/A
Cluster	12,000	12,000	N/A
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	12,288	12,288	6,144
HA Pair	24,576	24,576	12,288
Cluster	98,304	98,304	12,288
Maximum number of LUN mappings			
Node	12,288	12,288	6,144
HA Pair	24,576	24,576	12,288
Cluster	98,304	98,304	12,288
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	512	512	256
Node	8,192	8,192	4,096
HA Pair	16,384	16,384	8,192
Cluster	65,536	65,536	8,192
Maximum number of LIFS - iSCSI			
Port	32	32	16
Portset	32	32	32
Node	512	512	128
HA Pair	1,024	1,024	256
Cluster	4,096	4,096	256
Maximum number of LIFS - FCP			
Port	32	32	16
Portset	32	32	32
Node	512	512	128
HA Pair	1,024	1,024	256
Cluster	4,096	4,096	256
Maximum number of igroups			
Node	4,096	4,096	2,048
HA Pair	8,192	8,192	4,096
Cluster	32,768	32,768	4,096
Maximum number of initiators			
igroup	256	256	256
Node	4,096	4,096	2,048
HA Pair	8,192	8,192	4,096
Cluster	32,768	32,768	4,096
Maximum number of portsets			
Node	4,096	4,096	2,048
HA Pair	8,192	8,192	4,096

	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
Cluster	32,768	32,768	4,096
Maximum number of iSCSI sessions			
Node	8,192	8,192	4,096
HA Pair	16,384	16,384	8,192
Cluster	65,536	65,536	8,192
CIFS Cluster Limits			
Maximum number of connected shares			
Node	1,000,000	1,000,000	500,000
HA Pair	1,000,000	1,000,000	500,000
Maximum number of regular shares			
Node	N/A	N/A	150,000
HA Pair	N/A	N/A	150,000
Cluster	300,000	300,000	N/A
Maximum number of open files			
Connection	65,536	65,536	65,536
Node	1,500,000	1,500,000	700,000
HA Pair	1,500,000	1,500,000	700,000
Maximum number of local users			
Cluster	35,000	35,000	17,500
Maximum number of local groups			
Cluster	320,000	320,000	160,000
Maximum number of local group members			
Cluster	640,000	640,000	320,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	2,500	2,500	500
HA Pair	5,000	5,000	1,000
Cluster	12,000	12,000	N/A
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	100	100	100
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	N/A

	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
Maximum number of clusters that can be peered			
Cluster	255	255	8
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	200	200	N/A
FlexGroup/Node	50	50	N/A
HA Pair	1,000	1,000	N/A
Cluster	6,000	6,000	N/A
Maximum number of SnapMirror Synchronous relationships			
Volume	1	1	N/A
Node	160	160	N/A
HA Pair (Non-Scalable)	160	160	N/A
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	5	5	N/A
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	12	12	N/A
HA Pair (Non-Scalable)	60	60	N/A
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	32	32	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	2,500	2,500	N/A
HA Pair	5,000	5,000	N/A
Cluster	8,000	8,000	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	2,500	2,500	N/A
HA Pair	5,000	5,000	N/A
Cluster	12,000	12,000	N/A
Maximum number of namespaces			
Volume	512	512	N/A
Node	512	512	N/A
HA Pair	1,024	1,024	N/A

	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
Cluster	4,096	4,096	N/A
Maximum number of subsystems			
SVM	12	12	N/A
Cluster	64	64	N/A
Maximum number of namespace mappings			
Subsystem	512	512	N/A
Node	512	512	N/A
HA Pair	1,024	1,024	N/A
Cluster	4,096	4,096	N/A
Maximum namespace size			
Namespace	16	16	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	32	32	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	4	4	N/A
Maximum number of hosts			
Subsystem	64	64	N/A
Maximum number of LIFs - NVMe/oF			
Port	16	16	N/A
SVM	8	8	N/A
Node	32	32	N/A
HA Pair	32	32	N/A
Cluster	32	32	N/A
Maximum number of controllers - NVMe/FC			
Port	64	64	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	100	100	N/A
Max origin volumes			
Node	100	100	N/A
HA Pair	200	200	N/A
Max cache constituent volumes			
Node	800	800	N/A
HA Pair	1,600	1,600	N/A
Max cache volumes			
Node	100	100	N/A
HA Pair	200	200	N/A
Max origin constituent volumes			
Node	800	800	N/A
HA Pair	1,600	1,600	N/A
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	12,000	12,000	N/A
Cluster	12,000	12,000	N/A
Maximum Number of Objects			

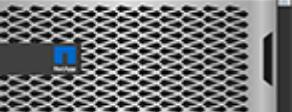
	AFF A400A Single Chassis HA Pair, Ethernet Bundle	AFF A400A Single Chassis HA Pair, FC Bundle	AFF A400 4-Node MetroCluster IP, Ethernet Bundle
Specifications			
Bucket	400,000,000,000	400,000,000,000	N/A
Maximum Number of Users			
Vserver	4,000	4,000	N/A
Cluster	96,000	96,000	N/A
Maximum Size of the Bucket (PB)			
Vserver	20	20	N/A

	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
Storage Limits			
Max Number of Drives (Total)	1920	960	1920
Max Number of Internal Drives	N/A	N/A	N/A
Max Number of NVMe SSD Drives	384	192	384
Max Number of SSD Drives	1920	960	1920
Max Number of DS2246 Shelves	80 external	40 external	80 external
Max Number of DS224C Shelves	80 external	40 external	80 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	16 external	8 external	16 external
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	58,752,000	29,376,000	58,752,000
Effective Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	130,385,376	130,385,376	130,385,376
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	32	32	32
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of LIFs - NAS			
Node	256	256	256
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of connections - NAS			
Node	50,000	50,000	50,000
HA Pair (Non-Scalable)	50,000	50,000	50,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NAS			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A

	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	N/A	N/A	N/A
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	191,488	191,488	191,488
Minimum Root Aggregate (with core dump device) (MiB)			
Node	N/A	N/A	N/A
Minimum Root Volume (GiB)			
Node	150	150	150
Minimum Root Volume (with core dump device) (GiB)			
Node	N/A	N/A	N/A
Maximum IPsec Policies			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	25	25	25
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	4 / 4	2 / 2	4 / 4
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	Not Supported	Not Supported	Not Supported
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	150 GiB ^[1]	150 GiB ^[1]	150 GiB ^[1]
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.20 Ghz	2.20 Ghz	2.20 Ghz
Processor Count (Per Node)	2	2	2
Processor Count (Per Config)	16	8	16
Processor Cores (Per CPU)	10	10	10
Processor Cores (Per Node)	20	20	20
Processor Cores (Per Config)	160	80	160
Memory			

	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
NVMEM (Per Node)	N/A	N/A	N/A
NVMEM (Per Config)	N/A	N/A	N/A
NVRAM (Per Node)	16 GB	16 GB	16 GB
NVRAM (Per Config)	128 GB	64 GB	128 GB
RAM (Per Node)	128 GB	128 GB	128 GB
RAM (Per Config)	1024 GB	512 GB	1024 GB
Onboard Ports			
Ethernet Ports	4 x QSFP28 (40Gb) 12 x SFP28 (25Gb)	4 x QSFP28 (40Gb) 4 x SFP28 (25Gb)	4 x QSFP28 (40Gb) 4 x SFP28 (25Gb)
UTA2 Ports	-	-	-
Expansion Slots	10 x PCIe3	10 x PCIe3	10 x PCIe3
SAS Ports	8 x MiniSAS HD (12Gb)	8 x MiniSAS HD (12Gb)	8 x MiniSAS HD (12Gb)
Physical Characteristics			
Rack Units	16	8	16
Chassis Height	6.89" (17.5 cm)	6.89" (17.5 cm)	6.89" (17.5 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.6" (44.7 cm)	17.6" (44.7 cm)	17.6" (44.7 cm)
Chassis Depth with Cable Mgmt	34.72" (88.2 cm)	34.72" (88.2 cm)	34.72" (88.2 cm)
Chassis Depth without Cable Mgmt	32.6" (82.8 cm)	32.6" (82.8 cm)	32.6" (82.8 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	34.51" (87.6 cm)	34.51" (87.6 cm)	34.51" (87.6 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	36.01" (91.4 cm)	36.01" (91.4 cm)	36.01" (91.4 cm)
Environmental Requirements			
Operating Temperature Range	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 80 %	8 to 80 %	8 to 80 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	8.5 bels	8.5 bels	8.5 bels
Acoustic Noise - Sound Pressure	67.2 dBA	67.2 dBA	67.2 dBA
Input Power Voltage	100 to 120; 200 to 240;	100 to 120; 200 to 240;	100 to 120; 200 to 240;
Storage OS Requirements (for selected major version)			

	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*
BMC	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	N/A	N/A	N/A
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	n/a	n/a	n/a
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	May 2021	Nov 2020	May 2021
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	6,000	6,000	6,000
Maximum number of Export Rules			
Cluster	70,000	70,000	70,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	102,400	102,400	102,400
HA Pair	102,400	102,400	102,400
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	N/A	N/A	N/A

	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	255	255	255
Node	63,750	63,750	63,750
HA Pair	127,500	127,500	127,500
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	15,000	15,000	15,000
HA Pair	30,000	30,000	30,000
Cluster	N/A	N/A	N/A
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	8	8	8
HA Pair (Non-Scalable)	8	8	8
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	6,000	6,000	6,000
Maximum number of QoS user workloads			
Cluster	20,000	20,000	20,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	32	32	32
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500

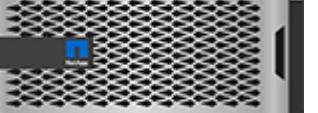
	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
HA Pair	1,000	1,000	1,000
Cluster	1,000	1,000	1,000
Maximum number of flexible volumes with DPO - SAN			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	12,288	12,288	12,288
Maximum number of LUN mappings			
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	12,288	12,288	12,288
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	256	256	256
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	8,192	8,192	8,192
Maximum number of LIFS - iSCSI			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	256	256	256
Maximum number of LIFS - FCP			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	256	256	256
Maximum number of igroups			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	4,096	4,096	4,096
Maximum number of initiators			
igroup	256	256	256
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	4,096	4,096	4,096
Maximum number of portsets			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096

	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
Cluster	4,096	4,096	4,096
Maximum number of iSCSI sessions			
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	8,192	8,192	8,192
CIFS Cluster Limits			
Maximum number of connected shares			
Node	500,000	500,000	500,000
HA Pair	500,000	500,000	500,000
Maximum number of regular shares			
Node	150,000	150,000	150,000
HA Pair	150,000	150,000	150,000
Cluster	N/A	N/A	N/A
Maximum number of open files			
Connection	65,536	65,536	65,536
Node	700,000	700,000	700,000
HA Pair	700,000	700,000	700,000
Maximum number of local users			
Cluster	17,500	17,500	17,500
Maximum number of local groups			
Cluster	160,000	160,000	160,000
Maximum number of local group members			
Cluster	320,000	320,000	320,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	100	100	100
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	N/A	N/A	N/A

	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
Maximum number of clusters that can be peered			
Cluster	8	8	8
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	N/A	N/A	N/A
FlexGroup/Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of SnapMirror Synchronous relationships			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespaces			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A

	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of subsystems			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespace mappings			
Subsystem	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum namespace size			
Namespace	N/A	N/A	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	N/A	N/A	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	N/A	N/A	N/A
Maximum number of hosts			
Subsystem	N/A	N/A	N/A
Maximum number of LIFS - NVMe/oF			
Port	N/A	N/A	N/A
SVM	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of controllers - NVMe/FC			
Port	N/A	N/A	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	N/A	N/A	N/A
Max origin volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max origin constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of Objects			

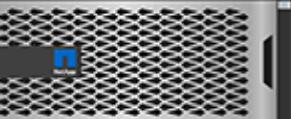
	AFF A400 8-Node MetroCluster IP, Ethernet Bundle	AFF A400 4-Node MetroCluster IP, FC Bundle	AFF A400 8-Node MetroCluster IP, FC Bundle
Specifications			
Bucket	N/A	N/A	N/A
Maximum Number of Users			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Size of the Bucket (PB)			
Vserver	N/A	N/A	N/A

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
Storage Limits			
Max Number of Drives (Total)	480	480	480
Max Number of Internal Drives	N/A	N/A	N/A
Max Number of NVMe SSD Drives	N/A	N/A	N/A
Max Number of SSD Drives	480	480	480
Max Number of DS2246 Shelves	20 external	20 external	20 external
Max Number of DS224C Shelves	20 external	20 external	20 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	N/A	N/A	N/A
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	14,688,000	14,688,000	14,688,000
Effective Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	65,192,688	65,192,688	65,192,688
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	64	64	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of LIFs - NAS			
Node	256	256	256
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of connections - NAS			
Node	2,500	2,500	2,500
HA Pair (Non-Scalable)	5,000	5,000	5,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NAS			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	700,000	700,000	700,000
HA Pair	700,000	700,000	700,000
Cluster	N/A	N/A	N/A
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	191,488	191,488	191,488
Minimum Root Aggregate (with core dump device) (MiB)			
Node	N/A	N/A	N/A
Minimum Root Volume (GiB)			
Node	150	150	150
Minimum Root Volume (with core dump device) (GiB)			
Node	N/A	N/A	N/A
Maximum IPsec Policies			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	25	25	25
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	1 / 1	1 / 1	1 / 1
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	Not Supported	Not Supported	Not Supported
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	150 GiB ^[1]	150 GiB ^[1]	150 GiB ^[1]
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.20 Ghz	2.20 Ghz	2.20 Ghz
Processor Count (Per Node)	2	2	2
Processor Count (Per Config)	4	4	4
Processor Cores (Per CPU)	10	10	10
Processor Cores (Per Node)	20	20	20
Processor Cores (Per Config)	40	40	40
Memory			

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
NVMEM (Per Node)	N/A	N/A	N/A
NVMEM (Per Config)	N/A	N/A	N/A
NVRAM (Per Node)	16 GB	16 GB	16 GB
NVRAM (Per Config)	32 GB	32 GB	32 GB
RAM (Per Node)	128 GB	128 GB	128 GB
RAM (Per Config)	256 GB	256 GB	256 GB
Onboard Ports			
Ethernet Ports	2 x QSFP28 (40Gb) 6 x SFP28 (25Gb)	2 x QSFP28 (40Gb) 2 x SFP28 (25Gb)	2 x QSFP28 (40Gb) 6 x SFP28 (25Gb)
UTA2 Ports	-	-	-
Expansion Slots	5 x PCIe3	5 x PCIe3	5 x PCIe3
SAS Ports	4 x MiniSAS HD (12Gb)	4 x MiniSAS HD (12Gb)	4 x MiniSAS HD (12Gb)
Physical Characteristics			
Rack Units	8	8	8
Chassis Height	6.89" (17.5 cm)	6.89" (17.5 cm)	6.89" (17.5 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.6" (44.7 cm)	17.6" (44.7 cm)	17.6" (44.7 cm)
Chassis Depth with Cable Mgmt	34.72" (88.2 cm)	34.72" (88.2 cm)	34.72" (88.2 cm)
Chassis Depth without Cable Mgmt	32.6" (82.8 cm)	32.6" (82.8 cm)	32.6" (82.8 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	34.51" (87.6 cm)	34.51" (87.6 cm)	34.51" (87.6 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	36.01" (91.4 cm)	36.01" (91.4 cm)	36.01" (91.4 cm)
Environmental Requirements			
Operating Temperature Range	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 80 %	8 to 80 %	8 to 80 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	8.2 bels	8.2 bels	8.2 bels
Acoustic Noise - Sound Pressure	64.1 dBA	64.1 dBA	64.1 dBA
Input Power Voltage	100 to 120; 200 to 240;	100 to 120; 200 to 240;	100 to 120; 200 to 240;
Storage OS Requirements (for selected major version)			

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*
BMC	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	N/A	N/A	N/A
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	n/a	n/a	n/a
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	Dec 2019	Dec 2019	Dec 2019
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	6,000	6,000	6,000
Maximum number of Export Rules			
Cluster	70,000	70,000	70,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	102,400	102,400	102,400
HA Pair	102,400	102,400	102,400
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	N/A	N/A	N/A

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	255	255	255
Node	63,750	63,750	63,750
HA Pair	127,500	127,500	127,500
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	15,000	15,000	15,000
HA Pair	30,000	30,000	30,000
Cluster	N/A	N/A	N/A
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	8	8	8
HA Pair (Non-Scalable)	16	16	16
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	6,000	6,000	6,000
Maximum number of QoS user workloads			
Cluster	20,000	20,000	20,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	64	64	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - SAN			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	N/A	N/A	N/A
Maximum number of LUN mappings			
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	N/A	N/A	N/A
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	256	256	256
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	N/A	N/A	N/A
Maximum number of LIFS - iSCSI			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of LIFS - FCP			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of igroups			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	N/A	N/A	N/A
Maximum number of initiators			
igroup	256	256	256
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	N/A	N/A	N/A
Maximum number of portsets			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of iSCSI sessions			
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	N/A	N/A	N/A
CIFS Cluster Limits			
Maximum number of connected shares			
Node	500,000	500,000	500,000
HA Pair	500,000	500,000	500,000
Maximum number of regular shares			
Node	150,000	150,000	150,000
HA Pair	150,000	150,000	150,000
Cluster	N/A	N/A	N/A
Maximum number of open files			
Connection	32,768	32,768	32,768
Node	350,000	350,000	350,000
HA Pair	350,000	350,000	350,000
Maximum number of local users			
Cluster	17,500	17,500	17,500
Maximum number of local groups			
Cluster	160,000	160,000	160,000
Maximum number of local group members			
Cluster	320,000	320,000	320,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	100	100	100
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	2

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
Maximum number of clusters that can be peered			
Cluster	8	8	8
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	N/A	N/A	N/A
FlexGroup/Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of SnapMirror Synchronous relationships			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespaces			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of subsystems			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespace mappings			
Subsystem	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum namespace size			
Namespace	N/A	N/A	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	N/A	N/A	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	N/A	N/A	N/A
Maximum number of hosts			
Subsystem	N/A	N/A	N/A
Maximum number of LIFs - NVMe/oF			
Port	N/A	N/A	N/A
SVM	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of controllers - NVMe/FC			
Port	N/A	N/A	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	N/A	N/A	N/A
Max origin volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max origin constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of Objects			

	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Fiber Bridge, FC Bundle	AFF A400 2-Node Fabric MetroCluster Ethernet Bundle
Specifications			
Bucket	N/A	N/A	N/A
Maximum Number of Users			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Size of the Bucket (PB)			
Vserver	N/A	N/A	N/A

	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
Storage Limits			
Max Number of Drives (Total)	480	960	960
Max Number of Internal Drives	N/A	N/A	N/A
Max Number of NVMe SSD Drives	N/A	N/A	N/A
Max Number of SSD Drives	480	960	960
Max Number of DS2246 Shelves	20 external	40 external	40 external
Max Number of DS224C Shelves	20 external	40 external	40 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	N/A	N/A	N/A
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	14,688,000	29,376,000	29,376,000
Effective Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	65,192,688	130,385,376	130,385,376
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	64	64	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of LIFs - NAS			
Node	256	256	256
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of connections - NAS			
Node	2,500	2,500	2,500
HA Pair (Non-Scalable)	5,000	5,000	5,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NAS			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A

	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	700,000	700,000	700,000
HA Pair	700,000	700,000	700,000
Cluster	N/A	N/A	N/A
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	191,488	191,488	191,488
Minimum Root Aggregate (with core dump device) (MiB)			
Node	N/A	N/A	N/A
Minimum Root Volume (GiB)			
Node	150	150	150
Minimum Root Volume (with core dump device) (GiB)			
Node	N/A	N/A	N/A
Maximum IPsec Policies			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	25	25	25
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	1 / 1	2 / 2	2 / 2
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	Not Supported	Not Supported	Not Supported
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	150 GiB ^[1]	150 GiB ^[1]	150 GiB ^[1]
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.20 Ghz	2.20 Ghz	2.20 Ghz
Processor Count (Per Node)	2	2	2
Processor Count (Per Config)	4	8	8
Processor Cores (Per CPU)	10	10	10
Processor Cores (Per Node)	20	20	20
Processor Cores (Per Config)	40	80	80
Memory			

	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
NVMEM (Per Node)	N/A	N/A	N/A
NVMEM (Per Config)	N/A	N/A	N/A
NVRAM (Per Node)	16 GB	16 GB	16 GB
NVRAM (Per Config)	32 GB	64 GB	64 GB
RAM (Per Node)	128 GB	128 GB	128 GB
RAM (Per Config)	256 GB	512 GB	512 GB
Onboard Ports			
Ethernet Ports	2 x QSFP28 (40Gb) 2 x SFP28 (25Gb)	4 x QSFP28 (40Gb) 12 x SFP28 (25Gb)	4 x QSFP28 (40Gb) 4 x SFP28 (25Gb)
UTA2 Ports	-	-	-
Expansion Slots	5 x PCIe3	10 x PCIe3	10 x PCIe3
SAS Ports	4 x MiniSAS HD (12Gb)	8 x MiniSAS HD (12Gb)	8 x MiniSAS HD (12Gb)
Physical Characteristics			
Rack Units	8	8	8
Chassis Height	6.89" (17.5 cm)	6.89" (17.5 cm)	6.89" (17.5 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.6" (44.7 cm)	17.6" (44.7 cm)	17.6" (44.7 cm)
Chassis Depth with Cable Mgmt	34.72" (88.2 cm)	34.72" (88.2 cm)	34.72" (88.2 cm)
Chassis Depth without Cable Mgmt	32.6" (82.8 cm)	32.6" (82.8 cm)	32.6" (82.8 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	34.51" (87.6 cm)	34.51" (87.6 cm)	34.51" (87.6 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	36.01" (91.4 cm)	36.01" (91.4 cm)	36.01" (91.4 cm)
Environmental Requirements			
Operating Temperature Range	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 80 %	8 to 80 %	8 to 80 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	8.2 bels	8.5 bels	8.5 bels
Acoustic Noise - Sound Pressure	64.1 dBA	67.2 dBA	67.2 dBA
Input Power Voltage	100 to 120; 200 to 240;	100 to 120; 200 to 240;	100 to 120; 200 to 240;
Storage OS Requirements (for selected major version)			

	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*
BMC	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	N/A	N/A	N/A
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	n/a	n/a	n/a
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	Dec 2019	Dec 2019	Dec 2019
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	6,000	6,000	6,000
Maximum number of Export Rules			
Cluster	70,000	70,000	70,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	102,400	102,400	102,400
HA Pair	102,400	102,400	102,400
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	N/A	N/A	N/A

	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	255	255	255
Node	63,750	63,750	63,750
HA Pair	127,500	127,500	127,500
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	15,000	15,000	15,000
HA Pair	30,000	30,000	30,000
Cluster	N/A	N/A	N/A
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	8	8	8
HA Pair (Non-Scalable)	16	16	16
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	6,000	6,000	6,000
Maximum number of QoS user workloads			
Cluster	20,000	20,000	20,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	64	64	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500

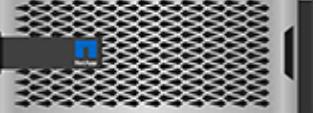
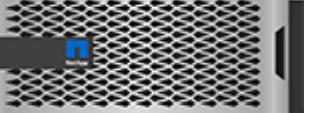
	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - SAN			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	N/A	N/A	N/A
Maximum number of LUN mappings			
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	N/A	N/A	N/A
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	256	256	256
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	N/A	N/A	N/A
Maximum number of LIFS - iSCSI			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of LIFS - FCP			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of igroups			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	N/A	N/A	N/A
Maximum number of initiators			
igroup	256	256	256
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	N/A	N/A	N/A
Maximum number of portsets			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096

	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of iSCSI sessions			
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	N/A	N/A	N/A
CIFS Cluster Limits			
Maximum number of connected shares			
Node	500,000	500,000	500,000
HA Pair	500,000	500,000	500,000
Maximum number of regular shares			
Node	150,000	150,000	150,000
HA Pair	150,000	150,000	150,000
Cluster	N/A	N/A	N/A
Maximum number of open files			
Connection	32,768	32,768	32,768
Node	350,000	350,000	350,000
HA Pair	350,000	350,000	350,000
Maximum number of local users			
Cluster	17,500	17,500	17,500
Maximum number of local groups			
Cluster	160,000	160,000	160,000
Maximum number of local group members			
Cluster	320,000	320,000	320,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	100	100	100
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	2

	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
Maximum number of clusters that can be peered			
Cluster	8	8	8
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	N/A	N/A	N/A
FlexGroup/Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of SnapMirror Synchronous relationships			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespaces			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A

	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of subsystems			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespace mappings			
Subsystem	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum namespace size			
Namespace	N/A	N/A	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	N/A	N/A	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	N/A	N/A	N/A
Maximum number of hosts			
Subsystem	N/A	N/A	N/A
Maximum number of LIFs - NVMe/oF			
Port	N/A	N/A	N/A
SVM	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of controllers - NVMe/FC			
Port	N/A	N/A	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	N/A	N/A	N/A
Max origin volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max origin constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of Objects			

	AFF A400 2-Node Fabric MetroCluster, FC Bundle	AFF A400 4-Node Fabric MetroCluster Ethernet Bundle	AFF A400 4-Node Fabric MetroCluster, FC Bundle
Specifications			
Bucket	N/A	N/A	N/A
Maximum Number of Users			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Size of the Bucket (PB)			
Vserver	N/A	N/A	N/A

	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
Storage Limits			
Max Number of Drives (Total)	1920	1920	480
Max Number of Internal Drives	N/A	N/A	N/A
Max Number of NVMe SSD Drives	N/A	N/A	240
Max Number of SSD Drives	1920	1920	480
Max Number of DS2246 Shelves	80 external	80 external	20 external
Max Number of DS224C Shelves	80 external	80 external	20 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	N/A	N/A	10 external
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	N/A	N/A	14,688,000
HA Pair	N/A	N/A	14,688,000
Cluster	58,752,000	58,752,000	N/A
Effective Capacity			
Node	N/A	N/A	65,192,688
HA Pair	N/A	N/A	65,192,688
Cluster	260,770,752	260,770,752	N/A
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	64	64	N/A
HA Pair	64	64	N/A
Cluster	64	64	1,024
Maximum number of LIFs - NAS			
Node	256	256	512
HA Pair	256	256	512
Cluster	N/A	N/A	3,072
Maximum number of connections - NAS			
Node	2,500	2,500	100,000
HA Pair (Non-Scalable)	5,000	5,000	100,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	250	250	N/A
Aggregate (Multiple data Aggregates per Node)	200	200	N/A
Node	500	500	2,500
HA Pair	1,000	1,000	5,000
Cluster	N/A	N/A	12,000
Maximum number of flexible volumes with DPO - NAS			
Node	N/A	N/A	2,500
HA Pair	N/A	N/A	5,000
Cluster	N/A	N/A	12,000

	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	700,000	700,000	3,000,000
HA Pair	700,000	700,000	3,000,000
Cluster	N/A	N/A	12,288,000
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	191,488	191,488	1,222,656
Minimum Root Aggregate (with core dump device) (MiB)			
Node	N/A	N/A	191,488
Minimum Root Volume (GiB)			
Node	150	150	962
Minimum Root Volume (with core dump device) (GiB)			
Node	N/A	N/A	150
Maximum IPsec Policies			
SVM	N/A	N/A	256
Cluster	N/A	N/A	1,500
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	25	25	50
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	4 / 4	4 / 4	24 / 12
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	Not Supported	Not Supported	100 TiB
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	150 GiB ^[1]	150 GiB ^[1]	962 GiB
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz	64-bit 18-core 2.30 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.20 Ghz	2.20 Ghz	2.30 Ghz
Processor Count (Per Node)	2	2	2
Processor Count (Per Config)	16	16	4
Processor Cores (Per CPU)	10	10	18
Processor Cores (Per Node)	20	20	36
Processor Cores (Per Config)	160	160	72
Memory			

	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
NVMEM (Per Node)	N/A	N/A	N/A
NVMEM (Per Config)	N/A	N/A	N/A
NVRAM (Per Node)	16 GB	16 GB	32 GB
NVRAM (Per Config)	128 GB	128 GB	64 GB
RAM (Per Node)	128 GB	128 GB	512 GB
RAM (Per Config)	1024 GB	1024 GB	1024 GB
Onboard Ports			
Ethernet Ports	4 x QSFP28 (40Gb) 12 x SFP28 (25Gb)	4 x QSFP28 (40Gb) 4 x SFP28 (25Gb)	-
UTA2 Ports	-	-	-
Expansion Slots	10 x PCIe3	10 x PCIe3	24 x IO Module
SAS Ports	8 x MiniSAS HD (12Gb)	8 x MiniSAS HD (12Gb)	-
Physical Characteristics			
Rack Units	16	16	8
Chassis Height	6.89" (17.5 cm)	6.89" (17.5 cm)	14.02" (35.6 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.6" (44.7 cm)	17.6" (44.7 cm)	17.72" (45 cm)
Chassis Depth with Cable Mgmt	34.72" (88.2 cm)	34.72" (88.2 cm)	36.81" (93.5 cm)
Chassis Depth without Cable Mgmt	32.6" (82.8 cm)	32.6" (82.8 cm)	30.79" (78.2 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	34.51" (87.6 cm)	34.51" (87.6 cm)	31.01" (78.7 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	36.01" (91.4 cm)	36.01" (91.4 cm)	22.02" (55.9 cm)
Environmental Requirements			
Operating Temperature Range	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C	41 to 113 deg F 5 to 45 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 80 %	8 to 80 %	8 to 90 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	8.5 bels	8.5 bels	7.4 bels
Acoustic Noise - Sound Pressure	67.2 dBA	67.2 dBA	65 dBA
Input Power Voltage	100 to 120; 200 to 240;	100 to 120; 200 to 240;	100 to 120; 200 to 240;
Storage OS Requirements (for selected major version)			

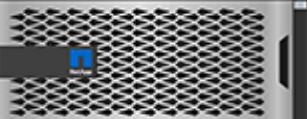
	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	10.14, 10.12*
BMC	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*	N/A
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	N/A	N/A	4.11, 4.10*
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	n/a	n/a	N/A
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	Dec 2019	Dec 2019	Oct 2016
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	6,000	6,000	24,000
Maximum number of Export Rules			
Cluster	70,000	70,000	200,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	102,400	102,400	100,000
HA Pair	102,400	102,400	100,000
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	N/A	N/A	12,288,000

	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	255	255	1,023
Node	63,750	63,750	1,023,000
HA Pair	127,500	127,500	2,046,000
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	15,000	15,000	100,000
HA Pair	30,000	30,000	200,000
Cluster	N/A	N/A	2,400,000
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	8	8	16
HA Pair (Non-Scalable)	16	16	16
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	6,000	6,000	12,000
Maximum number of QoS user workloads			
Cluster	20,000	20,000	40,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	64	64	125
HA Pair	64	64	250
Cluster	64	64	1,000
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	250	250	N/A
Aggregate (Multiple data Aggregates per Node)	200	200	N/A
Node	500	500	2,500

	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
HA Pair	1,000	1,000	5,000
Cluster	N/A	N/A	8,000
Maximum number of flexible volumes with DPO - SAN			
Node	N/A	N/A	2,500
HA Pair	N/A	N/A	5,000
Cluster	N/A	N/A	12,000
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	6,144	6,144	12,288
HA Pair	12,288	12,288	24,576
Cluster	N/A	N/A	98,304
Maximum number of LUN mappings			
Node	6,144	6,144	12,288
HA Pair	12,288	12,288	24,576
Cluster	N/A	N/A	98,304
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	256	256	512
Node	4,096	4,096	8,192
HA Pair	8,192	8,192	16,384
Cluster	N/A	N/A	65,536
Maximum number of LIFS - iSCSI			
Port	16	16	32
Portset	32	32	32
Node	128	128	512
HA Pair	256	256	1,024
Cluster	N/A	N/A	4,096
Maximum number of LIFS - FCP			
Port	16	16	32
Portset	32	32	32
Node	128	128	512
HA Pair	256	256	1,024
Cluster	N/A	N/A	4,096
Maximum number of igroups			
Node	2,048	2,048	4,096
HA Pair	4,096	4,096	8,192
Cluster	N/A	N/A	32,768
Maximum number of initiators			
igroup	256	256	256
Node	2,048	2,048	4,096
HA Pair	4,096	4,096	8,192
Cluster	N/A	N/A	32,768
Maximum number of portsets			
Node	2,048	2,048	4,096
HA Pair	4,096	4,096	8,192

	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
Cluster	N/A	N/A	32,768
Maximum number of iSCSI sessions			
Node	4,096	4,096	8,192
HA Pair	8,192	8,192	16,384
Cluster	N/A	N/A	65,536
CIFS Cluster Limits			
Maximum number of connected shares			
Node	500,000	500,000	1,000,000
HA Pair	500,000	500,000	1,000,000
Maximum number of regular shares			
Node	150,000	150,000	N/A
HA Pair	150,000	150,000	N/A
Cluster	N/A	N/A	300,000
Maximum number of open files			
Connection	32,768	32,768	65,536
Node	350,000	350,000	1,500,000
HA Pair	350,000	350,000	1,500,000
Maximum number of local users			
Cluster	17,500	17,500	35,000
Maximum number of local groups			
Cluster	160,000	160,000	320,000
Maximum number of local group members			
Cluster	320,000	320,000	640,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	500	500	2,500
HA Pair	1,000	1,000	5,000
Cluster	N/A	N/A	12,000
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	100	100	250
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	2

	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
Maximum number of clusters that can be peered			
Cluster	8	8	255
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	N/A	N/A	200
FlexGroup/Node	N/A	N/A	50
HA Pair	N/A	N/A	1,000
Cluster	N/A	N/A	6,000
Maximum number of SnapMirror Synchronous relationships			
Volume	N/A	N/A	1
Node	N/A	N/A	160
HA Pair (Non-Scalable)	N/A	N/A	160
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	N/A	N/A	5
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	N/A	N/A	12
HA Pair (Non-Scalable)	N/A	N/A	60
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	N/A	N/A	32
Maximum number of flexible volumes - NVMe/oF			
Node	N/A	N/A	2,500
HA Pair	N/A	N/A	5,000
Cluster	N/A	N/A	8,000
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	N/A	N/A	2,500
HA Pair	N/A	N/A	5,000
Cluster	N/A	N/A	12,000
Maximum number of namespaces			
Volume	N/A	N/A	512
Node	N/A	N/A	512
HA Pair	N/A	N/A	1,024

	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
Cluster	N/A	N/A	4,096
Maximum number of subsystems			
SVM	N/A	N/A	12
Cluster	N/A	N/A	64
Maximum number of namespace mappings			
Subsystem	N/A	N/A	512
Node	N/A	N/A	512
HA Pair	N/A	N/A	1,024
Cluster	N/A	N/A	4,096
Maximum namespace size			
Namespace	N/A	N/A	16
Maximum I/O queue depth available - NVMe/FC			
Queue	N/A	N/A	32
Maximum I/O queue count available - NVMe/FC			
Controller	N/A	N/A	4
Maximum number of hosts			
Subsystem	N/A	N/A	64
Maximum number of LIFS - NVMe/oF			
Port	N/A	N/A	16
SVM	N/A	N/A	8
Node	N/A	N/A	32
HA Pair	N/A	N/A	32
Cluster	N/A	N/A	32
Maximum number of controllers - NVMe/FC			
Port	N/A	N/A	64
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	N/A	N/A	100
Max origin volumes			
Node	N/A	N/A	100
HA Pair	N/A	N/A	200
Max cache constituent volumes			
Node	N/A	N/A	800
HA Pair	N/A	N/A	1,600
Max cache volumes			
Node	N/A	N/A	100
HA Pair	N/A	N/A	200
Max origin constituent volumes			
Node	N/A	N/A	800
HA Pair	N/A	N/A	1,600
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	N/A	N/A	12,000
Cluster	N/A	N/A	12,000
Maximum Number of Objects			

	AFF A400 8-Node Fabric MetroCluster, Ethernet Bundle	AFF A400 8-Node Fabric MetroCluster, FC Bundle	AFF A700 Single Chassis HA Pair
Specifications			
Bucket	N/A	N/A	400,000,000,000
Maximum Number of Users			
Vserver	N/A	N/A	4,000
Cluster	N/A	N/A	96,000
Maximum Size of the Bucket (PB)			
Vserver	N/A	N/A	20

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
Storage Limits			
Max Number of Drives (Total)	960	1920	480
Max Number of Internal Drives	N/A	N/A	N/A
Max Number of NVMe SSD Drives	480	960	N/A
Max Number of SSD Drives	960	1920	480
Max Number of DS2246 Shelves	40 external	80 external	20 external
Max Number of DS224C Shelves	40 external	80 external	20 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	20 external	40 external	N/A
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	29,376,000	58,752,000	14,688,000
Effective Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	130,385,376	260,770,752	65,192,688
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	32	32	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of LIFs - NAS			
Node	256	256	256
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of connections - NAS			
Node	50,000	50,000	2,500
HA Pair (Non-Scalable)	50,000	50,000	5,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	800	800	500
HA Pair	1,600	1,600	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NAS			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	700,000	700,000	700,000
HA Pair	1,024,000	1,024,000	700,000
Cluster	N/A	N/A	N/A
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	1,222,656	1,222,656	1,222,656
Minimum Root Aggregate (with core dump device) (MiB)			
Node	191,488	191,488	191,488
Minimum Root Volume (GiB)			
Node	962	962	962
Minimum Root Volume (with core dump device) (GiB)			
Node	150	150	150
Maximum IPsec Policies			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	25	25	25
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	2 / 2	4 / 4	1 / 1
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	Not Supported	Not Supported	Not Supported
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	962 GiB	962 GiB	962 GiB
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 18-core 2.30 Ghz	64-bit 18-core 2.30 Ghz	64-bit 18-core 2.30 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.30 Ghz	2.30 Ghz	2.30 Ghz
Processor Count (Per Node)	2	2	2
Processor Count (Per Config)	8	16	4
Processor Cores (Per CPU)	18	18	18
Processor Cores (Per Node)	36	36	36
Processor Cores (Per Config)	144	288	72
Memory			

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
NVMEM (Per Node)	N/A	N/A	N/A
NVMEM (Per Config)	N/A	N/A	N/A
NVRAM (Per Node)	32 GB	32 GB	32 GB
NVRAM (Per Config)	128 GB	256 GB	64 GB
RAM (Per Node)	512 GB	512 GB	512 GB
RAM (Per Config)	2048 GB	4096 GB	1024 GB
Onboard Ports			
Ethernet Ports	-	-	-
UTA2 Ports	-	-	-
Expansion Slots	24 x IO Module	24 x IO Module	12 x IO Module
SAS Ports	-	-	-
Physical Characteristics			
Rack Units	16	32	16
Chassis Height	14.02" (35.6 cm)	14.02" (35.6 cm)	14.02" (35.6 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.72" (45 cm)	17.72" (45 cm)	17.72" (45 cm)
Chassis Depth with Cable Mgmt	36.81" (93.5 cm)	36.81" (93.5 cm)	36.81" (93.5 cm)
Chassis Depth without Cable Mgmt	30.79" (78.2 cm)	30.79" (78.2 cm)	30.79" (78.2 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	31.01" (78.7 cm)	31.01" (78.7 cm)	31.01" (78.7 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	22.02" (55.9 cm)	22.02" (55.9 cm)	22.02" (55.9 cm)
Environmental Requirements			
Operating Temperature Range	41 to 113 deg F 5 to 45 deg C	41 to 113 deg F 5 to 45 deg C	41 to 113 deg F 5 to 45 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 90 %	8 to 90 %	8 to 90 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	7.4 bels	7.4 bels	7.4 bels
Acoustic Noise - Sound Pressure	65 dBA	65 dBA	65 dBA
Input Power Voltage	100 to 120; 200 to 240;	100 to 120; 200 to 240;	100 to 120; 200 to 240;
Storage OS Requirements (for selected major version)			

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	10.14, 10.12*	10.14, 10.12*	10.14, 10.12*
BMC	N/A	N/A	N/A
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	4.11, 4.10*	4.11, 4.10*	4.11, 4.10*
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	N/A	N/A	N/A
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	Oct 2016	May 2021	Oct 2016
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	6,000	6,000	6,000
Maximum number of Export Rules			
Cluster	70,000	70,000	70,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	102,400	102,400	102,400
HA Pair	102,400	102,400	102,400
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	N/A	N/A	N/A

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	255	255	255
Node	63,750	63,750	63,750
HA Pair	127,500	127,500	127,500
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	15,000	15,000	15,000
HA Pair	30,000	30,000	30,000
Cluster	N/A	N/A	N/A
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	16	16	8
HA Pair (Non-Scalable)	16	16	16
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	6,000	6,000	6,000
Maximum number of QoS user workloads			
Cluster	20,000	20,000	20,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	32	32	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	800	800	500

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
HA Pair	1,600	1,600	1,000
Cluster	1,600	1,600	N/A
Maximum number of flexible volumes with DPO - SAN			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	12,288	12,288	N/A
Maximum number of LUN mappings			
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	12,288	12,288	N/A
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	256	256	256
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	8,192	8,192	N/A
Maximum number of LIFS - iSCSI			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	256	256	N/A
Maximum number of LIFS - FCP			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	256	256	N/A
Maximum number of igroups			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	4,096	4,096	N/A
Maximum number of initiators			
igroup	256	256	256
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	4,096	4,096	N/A
Maximum number of portsets			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
Cluster	4,096	4,096	N/A
Maximum number of iSCSI sessions			
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	8,192	8,192	N/A
CIFS Cluster Limits			
Maximum number of connected shares			
Node	500,000	500,000	500,000
HA Pair	500,000	500,000	500,000
Maximum number of regular shares			
Node	150,000	150,000	150,000
HA Pair	150,000	150,000	150,000
Cluster	N/A	N/A	N/A
Maximum number of open files			
Connection	65,536	65,536	32,768
Node	700,000	700,000	350,000
HA Pair	700,000	700,000	350,000
Maximum number of local users			
Cluster	17,500	17,500	17,500
Maximum number of local groups			
Cluster	160,000	160,000	160,000
Maximum number of local group members			
Cluster	320,000	320,000	320,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	800	800	500
HA Pair	1,600	1,600	1,000
Cluster	N/A	N/A	N/A
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	250	250	250
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	2

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
Maximum number of clusters that can be peered			
Cluster	8	8	8
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	N/A	N/A	N/A
FlexGroup/Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of SnapMirror Synchronous relationships			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespaces			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of subsystems			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespace mappings			
Subsystem	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum namespace size			
Namespace	N/A	N/A	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	N/A	N/A	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	N/A	N/A	N/A
Maximum number of hosts			
Subsystem	N/A	N/A	N/A
Maximum number of LIFS - NVMe/oF			
Port	N/A	N/A	N/A
SVM	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of controllers - NVMe/FC			
Port	N/A	N/A	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	N/A	N/A	N/A
Max origin volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max origin constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of Objects			

	AFF A700 4-Node MetroCluster IP	AFF A700 8-Node MetroCluster IP	AFF A700 2-Node Stretch MetroCluster, Fiber Bridge
Specifications			
Bucket	N/A	N/A	N/A
Maximum Number of Users			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Size of the Bucket (PB)			
Vserver	N/A	N/A	N/A

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
Storage Limits			
Max Number of Drives (Total)	480	960	1920
Max Number of Internal Drives	N/A	N/A	N/A
Max Number of NVMe SSD Drives	N/A	N/A	N/A
Max Number of SSD Drives	480	960	1920
Max Number of DS2246 Shelves	20 external	40 external	80 external
Max Number of DS224C Shelves	20 external	40 external	80 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	N/A	N/A	N/A
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	14,688,000	29,376,000	58,752,000
Effective Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	65,192,688	130,385,376	260,770,752
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	64	64	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of LIFs - NAS			
Node	256	256	256
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of connections - NAS			
Node	2,500	2,500	2,500
HA Pair (Non-Scalable)	5,000	5,000	5,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NAS			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	700,000	700,000	700,000
HA Pair	700,000	700,000	700,000
Cluster	N/A	N/A	N/A
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	1,222,656	1,222,656	1,222,656
Minimum Root Aggregate (with core dump device) (MiB)			
Node	191,488	191,488	191,488
Minimum Root Volume (GiB)			
Node	962	962	962
Minimum Root Volume (with core dump device) (GiB)			
Node	150	150	150
Maximum IPsec Policies			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	25	25	25
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	1 / 1	2 / 2	4 / 4
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	Not Supported	Not Supported	Not Supported
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	962 GiB	962 GiB	962 GiB
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 18-core 2.30 Ghz	64-bit 18-core 2.30 Ghz	64-bit 18-core 2.30 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.30 Ghz	2.30 Ghz	2.30 Ghz
Processor Count (Per Node)	2	2	2
Processor Count (Per Config)	4	8	16
Processor Cores (Per CPU)	18	18	18
Processor Cores (Per Node)	36	36	36
Processor Cores (Per Config)	72	144	288
Memory			

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
NVMEM (Per Node)	N/A	N/A	N/A
NVMEM (Per Config)	N/A	N/A	N/A
NVRAM (Per Node)	32 GB	32 GB	32 GB
NVRAM (Per Config)	64 GB	128 GB	256 GB
RAM (Per Node)	512 GB	512 GB	512 GB
RAM (Per Config)	1024 GB	2048 GB	4096 GB
Onboard Ports			
Ethernet Ports	-	-	-
UTA2 Ports	-	-	-
Expansion Slots	12 x IO Module	24 x IO Module	24 x IO Module
SAS Ports	-	-	-
Physical Characteristics			
Rack Units	16	16	32
Chassis Height	14.02" (35.6 cm)	14.02" (35.6 cm)	14.02" (35.6 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.72" (45 cm)	17.72" (45 cm)	17.72" (45 cm)
Chassis Depth with Cable Mgmt	36.81" (93.5 cm)	36.81" (93.5 cm)	36.81" (93.5 cm)
Chassis Depth without Cable Mgmt	30.79" (78.2 cm)	30.79" (78.2 cm)	30.79" (78.2 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	31.01" (78.7 cm)	31.01" (78.7 cm)	31.01" (78.7 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	22.02" (55.9 cm)	22.02" (55.9 cm)	22.02" (55.9 cm)
Environmental Requirements			
Operating Temperature Range	41 to 113 deg F 5 to 45 deg C	41 to 113 deg F 5 to 45 deg C	41 to 113 deg F 5 to 45 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 90 %	8 to 90 %	8 to 90 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	7.4 bels	7.4 bels	7.4 bels
Acoustic Noise - Sound Pressure	65 dBA	65 dBA	65 dBA
Input Power Voltage	100 to 120; 200 to 240;	100 to 120; 200 to 240;	100 to 120; 200 to 240;
Storage OS Requirements (for selected major version)			

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	10.14, 10.12*	10.14, 10.12*	10.14, 10.12*
BMC	N/A	N/A	N/A
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	4.11, 4.10*	4.11, 4.10*	4.11, 4.10*
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	N/A	N/A	N/A
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	Oct 2016	Oct 2016	Oct 2016
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	6,000	6,000	6,000
Maximum number of Export Rules			
Cluster	70,000	70,000	70,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	102,400	102,400	102,400
HA Pair	102,400	102,400	102,400
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	N/A	N/A	N/A

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	255	255	255
Node	63,750	63,750	63,750
HA Pair	127,500	127,500	127,500
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	15,000	15,000	15,000
HA Pair	30,000	30,000	30,000
Cluster	N/A	N/A	N/A
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	8	8	8
HA Pair (Non-Scalable)	16	16	16
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	6,000	6,000	6,000
Maximum number of QoS user workloads			
Cluster	20,000	20,000	20,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	64	64	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - SAN			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	N/A	N/A	N/A
Maximum number of LUN mappings			
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	N/A	N/A	N/A
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	256	256	256
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	N/A	N/A	N/A
Maximum number of LIFS - iSCSI			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of LIFS - FCP			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of igroups			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	N/A	N/A	N/A
Maximum number of initiators			
igroup	256	256	256
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	N/A	N/A	N/A
Maximum number of portsets			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of iSCSI sessions			
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	N/A	N/A	N/A
CIFS Cluster Limits			
Maximum number of connected shares			
Node	500,000	500,000	500,000
HA Pair	500,000	500,000	500,000
Maximum number of regular shares			
Node	150,000	150,000	150,000
HA Pair	150,000	150,000	150,000
Cluster	N/A	N/A	N/A
Maximum number of open files			
Connection	32,768	32,768	32,768
Node	350,000	350,000	350,000
HA Pair	350,000	350,000	350,000
Maximum number of local users			
Cluster	17,500	17,500	17,500
Maximum number of local groups			
Cluster	160,000	160,000	160,000
Maximum number of local group members			
Cluster	320,000	320,000	320,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	250	250	250
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	2

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
Maximum number of clusters that can be peered			
Cluster	8	8	8
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	N/A	N/A	N/A
FlexGroup/Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of SnapMirror Synchronous relationships			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespaces			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of subsystems			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespace mappings			
Subsystem	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum namespace size			
Namespace	N/A	N/A	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	N/A	N/A	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	N/A	N/A	N/A
Maximum number of hosts			
Subsystem	N/A	N/A	N/A
Maximum number of LIFs - NVMe/oF			
Port	N/A	N/A	N/A
SVM	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of controllers - NVMe/FC			
Port	N/A	N/A	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	N/A	N/A	N/A
Max origin volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max origin constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of Objects			

	AFF A700 2-Node Fabric MetroCluster	AFF A700 4-Node Fabric MetroCluster	AFF A700 8-Node Fabric MetroCluster
Specifications			
Bucket	N/A	N/A	N/A
Maximum Number of Users			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Size of the Bucket (PB)			
Vserver	N/A	N/A	N/A

	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
Storage Limits			
Max Number of Drives (Total)	240	480	960
Max Number of Internal Drives	48	48	48
Max Number of NVMe SSD Drives	240	480	960
Max Number of SSD Drives	240	480	960
Max Number of DS2246 Shelves	8 external	16 external	32 external
Max Number of DS224C Shelves	8 external	16 external	32 external
Max Number of FS4483 Shelves	1 internal + 0 external	2 internal + 0 external	4 internal + 0 external
Max Number of NS224 Shelves	8 external	16 external	32 external
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	6,609,600	N/A	N/A
HA Pair	6,609,600	N/A	N/A
Cluster	N/A	13,219,200	26,438,400
Effective Capacity			
Node	29,336,709.60	N/A	N/A
HA Pair	29,336,709.60	N/A	N/A
Cluster	N/A	58,673,419.20	117,346,838.40
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	N/A	32	32
HA Pair	N/A	64	64
Cluster	1,024	64	64
Maximum number of LIFs - NAS			
Node	512	256	256
HA Pair	512	256	256
Cluster	3,072	N/A	N/A
Maximum number of connections - NAS			
Node	100,000	50,000	50,000
HA Pair (Non-Scalable)	100,000	50,000	50,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	N/A	250	250
Aggregate (Multiple data Aggregates per Node)	N/A	200	200
Node	2,500	800	800
HA Pair	5,000	1,600	1,600
Cluster	12,000	N/A	N/A
Maximum number of flexible volumes with DPO - NAS			
Node	2,500	N/A	N/A
HA Pair	5,000	N/A	N/A
Cluster	12,000	N/A	N/A

	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	3,000,000	700,000	700,000
HA Pair	3,000,000	1,024,000	1,024,000
Cluster	12,288,000	N/A	N/A
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	191,488	191,488	191,488
Minimum Root Aggregate (with core dump device) (MiB)			
Node	N/A	N/A	N/A
Minimum Root Volume (GiB)			
Node	150	150	150
Minimum Root Volume (with core dump device) (GiB)			
Node	N/A	N/A	N/A
Maximum IPsec Policies			
SVM	256	N/A	N/A
Cluster	1,500	N/A	N/A
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	50	25	25
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	24 / 12	2 / 2	4 / 4
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	100 TiB	Not Supported	Not Supported
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	150 GiB ^[1]	150 GiB ^[1]	150 GiB ^[1]
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 24-core	64-bit 24-core	64-bit 24-core
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.10 Ghz	2.10 Ghz	2.10 Ghz
Processor Count (Per Node)	2	2	2
Processor Count (Per Config)	4	8	16
Processor Cores (Per CPU)	24	24	24
Processor Cores (Per Node)	48	48	48
Processor Cores (Per Config)	96	192	384
Memory			

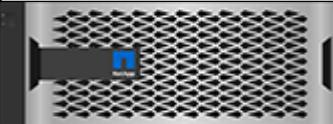
	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
NVMEM (Per Node)	N/A	N/A	N/A
NVMEM (Per Config)	N/A	N/A	N/A
NVRAM (Per Node)	32 GB	32 GB	32 GB
NVRAM (Per Config)	64 GB	128 GB	256 GB
RAM (Per Node)	640 GB	640 GB	640 GB
RAM (Per Config)	1280 GB	2560 GB	5120 GB
Onboard Ports			
Ethernet Ports	-	-	-
UTA2 Ports	-	-	-
Expansion Slots	10 x PCIe3	10 x PCIe3	10 x PCIe3
SAS Ports	-	-	-
Physical Characteristics			
Rack Units	4	8	16
Chassis Height	6.89" (17.5 cm)	6.89" (17.5 cm)	6.89" (17.5 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.6" (44.7 cm)	17.6" (44.7 cm)	17.6" (44.7 cm)
Chassis Depth with Cable Mgmt	36.57" (92.9 cm)	36.57" (92.9 cm)	36.57" (92.9 cm)
Chassis Depth without Cable Mgmt	34.49" (87.6 cm)	34.49" (87.6 cm)	34.49" (87.6 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	36.41" (92.4 cm)	36.41" (92.4 cm)	36.41" (92.4 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	36.01" (91.4 cm)	36.01" (91.4 cm)	36.01" (91.4 cm)
Environmental Requirements			
Operating Temperature Range	41 to 104 deg F 5 to 40 deg C	41 to 104 deg F 5 to 40 deg C	41 to 104 deg F 5 to 40 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 90 %	8 to 90 %	8 to 90 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	8 bels	8 bels	8 bels
Acoustic Noise - Sound Pressure	62.8 dBA	62.8 dBA	62.8 dBA
Input Power Voltage	200 to 240;	200 to 240;	200 to 240;
Storage OS Requirements (for selected major version)			

	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	13.13, 13.12*	13.13, 13.12*	13.13, 13.12*
BMC	10.7, 10.6*	10.7, 10.6*	10.7, 10.6*
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	N/A	N/A	N/A
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	N/A	N/A	N/A
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	May 2018	May 2018	May 2021
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	24,000	6,000	6,000
Maximum number of Export Rules			
Cluster	200,000	70,000	70,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	100,000	102,400	102,400
HA Pair	100,000	102,400	102,400
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	12,288,000	N/A	N/A

	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	1,023	255	255
Node	1,023,000	63,750	63,750
HA Pair	2,046,000	127,500	127,500
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	100,000	15,000	15,000
HA Pair	200,000	30,000	30,000
Cluster	2,400,000	N/A	N/A
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	16	16	16
HA Pair (Non-Scalable)	16	16	16
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	12,000	6,000	6,000
Maximum number of QoS user workloads			
Cluster	40,000	20,000	20,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	125	32	32
HA Pair	250	64	64
Cluster	1,000	64	64
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	N/A	250	250
Aggregate (Multiple data Aggregates per Node)	N/A	200	200
Node	2,500	800	800

	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
HA Pair	5,000	1,600	1,600
Cluster	8,000	1,600	1,600
Maximum number of flexible volumes with DPO - SAN			
Node	2,500	N/A	N/A
HA Pair	5,000	N/A	N/A
Cluster	12,000	N/A	N/A
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	12,288	6,144	6,144
HA Pair	24,576	12,288	12,288
Cluster	98,304	12,288	12,288
Maximum number of LUN mappings			
Node	12,288	6,144	6,144
HA Pair	24,576	12,288	12,288
Cluster	98,304	12,288	12,288
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	512	256	256
Node	8,192	4,096	4,096
HA Pair	16,384	8,192	8,192
Cluster	65,536	8,192	8,192
Maximum number of LIFS - iSCSI			
Port	32	16	16
Portset	32	32	32
Node	512	128	128
HA Pair	1,024	256	256
Cluster	4,096	256	256
Maximum number of LIFS - FCP			
Port	32	16	16
Portset	32	32	32
Node	512	128	128
HA Pair	1,024	256	256
Cluster	4,096	256	256
Maximum number of igroups			
Node	4,096	2,048	2,048
HA Pair	8,192	4,096	4,096
Cluster	32,768	4,096	4,096
Maximum number of initiators			
igroup	256	256	256
Node	4,096	2,048	2,048
HA Pair	8,192	4,096	4,096
Cluster	32,768	4,096	4,096
Maximum number of portsets			
Node	4,096	2,048	2,048
HA Pair	8,192	4,096	4,096

	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
Cluster	32,768	4,096	4,096
Maximum number of iSCSI sessions			
Node	8,192	4,096	4,096
HA Pair	16,384	8,192	8,192
Cluster	65,536	8,192	8,192
CIFS Cluster Limits			
Maximum number of connected shares			
Node	1,000,000	500,000	500,000
HA Pair	1,000,000	500,000	500,000
Maximum number of regular shares			
Node	N/A	150,000	150,000
HA Pair	N/A	150,000	150,000
Cluster	300,000	N/A	N/A
Maximum number of open files			
Connection	65,536	65,536	65,536
Node	1,500,000	700,000	700,000
HA Pair	1,500,000	700,000	700,000
Maximum number of local users			
Cluster	35,000	17,500	17,500
Maximum number of local groups			
Cluster	320,000	160,000	160,000
Maximum number of local group members			
Cluster	640,000	320,000	320,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	2,500	800	800
HA Pair	5,000	1,600	1,600
Cluster	12,000	N/A	N/A
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	250	250	250
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	2

	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
Maximum number of clusters that can be peered			
Cluster	255	8	8
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	200	N/A	N/A
FlexGroup/Node	50	N/A	N/A
HA Pair	1,000	N/A	N/A
Cluster	6,000	N/A	N/A
Maximum number of SnapMirror Synchronous relationships			
Volume	1	N/A	N/A
Node	160	N/A	N/A
HA Pair (Non-Scalable)	160	N/A	N/A
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	5	N/A	N/A
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	12	N/A	N/A
HA Pair (Non-Scalable)	60	N/A	N/A
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	32	N/A	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	2,500	N/A	N/A
HA Pair	5,000	N/A	N/A
Cluster	8,000	N/A	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	2,500	N/A	N/A
HA Pair	5,000	N/A	N/A
Cluster	12,000	N/A	N/A
Maximum number of namespaces			
Volume	512	N/A	N/A
Node	512	N/A	N/A
HA Pair	1,024	N/A	N/A

	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
Cluster	4,096	N/A	N/A
Maximum number of subsystems			
SVM	12	N/A	N/A
Cluster	64	N/A	N/A
Maximum number of namespace mappings			
Subsystem	512	N/A	N/A
Node	512	N/A	N/A
HA Pair	1,024	N/A	N/A
Cluster	4,096	N/A	N/A
Maximum namespace size			
Namespace	16	N/A	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	32	N/A	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	4	N/A	N/A
Maximum number of hosts			
Subsystem	64	N/A	N/A
Maximum number of LIFS - NVMe/oF			
Port	16	N/A	N/A
SVM	8	N/A	N/A
Node	32	N/A	N/A
HA Pair	32	N/A	N/A
Cluster	32	N/A	N/A
Maximum number of controllers - NVMe/FC			
Port	64	N/A	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	100	N/A	N/A
Max origin volumes			
Node	100	N/A	N/A
HA Pair	200	N/A	N/A
Max cache constituent volumes			
Node	800	N/A	N/A
HA Pair	1,600	N/A	N/A
Max cache volumes			
Node	100	N/A	N/A
HA Pair	200	N/A	N/A
Max origin constituent volumes			
Node	800	N/A	N/A
HA Pair	1,600	N/A	N/A
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	12,000	N/A	N/A
Cluster	12,000	N/A	N/A
Maximum Number of Objects			

	AFF A800 Single Chassis HA Pair	AFF A800 4-Node MetroCluster IP	AFF A800 8-Node MetroCluster IP
Specifications			
Bucket	400,000,000,000	N/A	N/A
Maximum Number of Users			
Vserver	4,000	N/A	N/A
Cluster	96,000	N/A	N/A
Maximum Size of the Bucket (PB)			
Vserver	20	N/A	N/A

	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
Storage Limits			
Max Number of Drives (Total)	24	24	24
Max Number of Internal Drives	24	24	24
Max Number of NVMe SSD Drives	N/A	N/A	N/A
Max Number of SSD Drives	24	24	24
Max Number of DS2246 Shelves	N/A	N/A	N/A
Max Number of DS224C Shelves	1 internal + 0 external	1 internal + 0 external	1 internal + 0 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	N/A	N/A	N/A
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	23,040	23,040	23,040
HA Pair	23,040	23,040	23,040
Cluster	N/A	N/A	N/A
Effective Capacity			
Node	102,263.04	102,263.04	102,263.04
HA Pair	102,263.04	102,263.04	102,263.04
Cluster	N/A	N/A	N/A
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	512	512	512
Maximum number of LIFs - NAS			
Node	512	512	512
HA Pair	512	512	512
Cluster	3,072	3,072	3,072
Maximum number of connections - NAS			
Node	100,000	100,000	100,000
HA Pair (Non-Scalable)	100,000	100,000	100,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	N/A	N/A	N/A
Aggregate (Multiple data Aggregates per Node)	N/A	N/A	N/A
Node	1,000	1,000	1,000
HA Pair	2,000	2,000	2,000
Cluster	12,000	12,000	12,000
Maximum number of flexible volumes with DPO - NAS			
Node	1,500	1,500	1,500
HA Pair	3,000	3,000	3,000
Cluster	12,000	12,000	12,000

	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	1,200,000	1,200,000	1,200,000
HA Pair	1,200,000	1,200,000	1,200,000
Cluster	12,288,000	12,288,000	12,288,000
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	191,488	191,488	191,488
Minimum Root Aggregate (with core dump device) (MiB)			
Node	N/A	N/A	N/A
Minimum Root Volume (GiB)			
Node	150	150	150
Minimum Root Volume (with core dump device) (GiB)			
Node	N/A	N/A	N/A
Maximum IPsec Policies			
SVM	256	256	256
Cluster	1,500	1,500	1,500
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	50	50	50
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	24 / 12	24 / 12	Not Supported / Not Supported
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	100 TiB	100 TiB	100 TiB
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	150 GiB ^[1]	150 GiB ^[1]	150 GiB ^[1]
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 8-core 1.50 Ghz	64-bit 8-core 1.50 Ghz	64-bit 8-core 1.50 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	1.50 Ghz	1.50 Ghz	1.50 Ghz
Processor Count (Per Node)	1	1	1
Processor Count (Per Config)	2	2	2
Processor Cores (Per CPU)	8	8	8
Processor Cores (Per Node)	8	8	8
Processor Cores (Per Config)	16	16	16
Memory			

	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
NVMEM (Per Node)	4 GB	4 GB	4 GB
NVMEM (Per Config)	8 GB	8 GB	8 GB
NVRAM (Per Node)	N/A	N/A	N/A
NVRAM (Per Config)	N/A	N/A	N/A
RAM (Per Node)	32 GB	32 GB	32 GB
RAM (Per Config)	64 GB	64 GB	64 GB
Onboard Ports			
Ethernet Ports	8 x RJ45 (10Gb) 4 x SFP+ (10Gb)	4 x SFP+ (10Gb)	4 x SFP+ (10Gb)
UTA2 Ports	-	8 x SFP+ (16Gb)	4 x SFP+ (16Gb)
Expansion Slots	-	-	-
SAS Ports	4 x MiniSAS HD (12Gb)	4 x MiniSAS HD (12Gb)	4 x MiniSAS HD (12Gb)
Physical Characteristics			
Rack Units	2	2	2
Chassis Height	3.35" (8.5 cm)	3.35" (8.5 cm)	3.35" (8.5 cm)
Chassis Width with Mounting Flanges	18.9" (48 cm)	18.9" (48 cm)	18.9" (48 cm)
Chassis Width without Mounting Flanges	17.6" (44.7 cm)	17.6" (44.7 cm)	17.6" (44.7 cm)
Chassis Depth with Cable Mgmt	24.13" (61.3 cm)	24.13" (61.3 cm)	24.13" (61.3 cm)
Chassis Depth without Cable Mgmt	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	24.03" (61 cm)	24.03" (61 cm)	24.03" (61 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	13" (33 cm)	13" (33 cm)	13" (33 cm)
Environmental Requirements			
Operating Temperature Range	41 to 113 deg F 5 to 45 deg C	41 to 113 deg F 5 to 45 deg C	41 to 113 deg F 5 to 45 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 90 %	8 to 90 %	8 to 90 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	6.9 bels	6.9 bels	6.9 bels
Acoustic Noise - Sound Pressure	51 dBA	51 dBA	51 dBA
Input Power Voltage	100 to 120; 200 to 240;	100 to 120; 200 to 240;	100 to 120; 200 to 240;
Storage OS Requirements (for selected major version)			

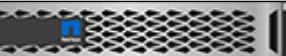
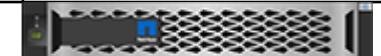
	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	11.16, 11.15, 11.13, 11.11*	11.16, 11.15, 11.13, 11.11*	11.16, 11.15, 11.13, 11.11*
BMC	11.8, 11.7*	11.8, 11.7*	11.8, 11.7*
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	N/A	N/A	N/A
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	N/A	N/A	N/A
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	Jun 2019	Jun 2019	May 2022
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	24,000	24,000	24,000
Maximum number of Export Rules			
Cluster	200,000	200,000	200,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	10,000	10,000	10,000
HA Pair	10,000	10,000	10,000
Maximum number of pNFS objects			
Node	524,288	524,288	524,288
HA Pair	524,288	524,288	524,288
Cluster	1,048,576	1,048,576	1,048,576

	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	50	50	50
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	1,023	1,023	1,023
Node	1,023,000	1,023,000	1,023,000
HA Pair	2,046,000	2,046,000	2,046,000
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	100,000	100,000	100,000
HA Pair	200,000	200,000	200,000
Cluster	400,000	400,000	400,000
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	16	16	16
HA Pair (Non-Scalable)	16	16	16
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	12,000	12,000	12,000
Maximum number of QoS user workloads			
Cluster	40,000	40,000	40,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	125	125	125
HA Pair	250	250	250
Cluster	1,000	1,000	1,000
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	N/A	N/A	N/A
Aggregate (Multiple data Aggregates per Node)	N/A	N/A	N/A
Node	1,000	1,000	1,000

	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
HA Pair	2,000	2,000	2,000
Cluster	8,000	8,000	8,000
Maximum number of flexible volumes with DPO - SAN			
Node	1,500	1,500	1,500
HA Pair	3,000	3,000	3,000
Cluster	12,000	12,000	12,000
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	8,192	8,192	8,192
HA Pair	16,384	16,384	16,384
Cluster	65,536	65,536	65,536
Maximum number of LUN mappings			
Node	8,192	8,192	8,192
HA Pair	16,384	16,384	16,384
Cluster	65,536	65,536	65,536
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	512	512	512
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	32,768	32,768	32,768
Maximum number of LIFS - iSCSI			
Port	32	32	32
Portset	32	32	32
Node	512	512	512
HA Pair	1,024	1,024	1,024
Cluster	4,096	4,096	4,096
Maximum number of LIFS - FCP			
Port	32	32	32
Portset	32	32	32
Node	512	512	512
HA Pair	1,024	1,024	1,024
Cluster	4,096	4,096	4,096
Maximum number of igroups			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	16,384	16,384	16,384
Maximum number of initiators			
igroup	256	256	256
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	16,384	16,384	16,384
Maximum number of portsets			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096

	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
Cluster	16,384	16,384	16,384
Maximum number of iSCSI sessions			
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	32,768	32,768	32,768
CIFS Cluster Limits			
Maximum number of connected shares			
Node	800,000	800,000	800,000
HA Pair	800,000	800,000	800,000
Maximum number of regular shares			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	60,000	60,000	60,000
Maximum number of open files			
Connection	65,536	65,536	65,536
Node	600,000	600,000	600,000
HA Pair	600,000	600,000	600,000
Maximum number of local users			
Cluster	5,000	5,000	5,000
Maximum number of local groups			
Cluster	10,000	10,000	10,000
Maximum number of local group members			
Cluster	30,000	30,000	30,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	1,000	1,000	1,000
HA Pair	2,000	2,000	2,000
Cluster	12,000	12,000	12,000
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	100	100	100
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	2

	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
Maximum number of clusters that can be peered			
Cluster	255	255	255
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	200	200	200
FlexGroup/Node	50	50	50
HA Pair	1,000	1,000	1,000
Cluster	6,000	6,000	6,000
Maximum number of SnapMirror Synchronous relationships			
Volume	1	1	1
Node	160	160	160
HA Pair (Non-Scalable)	160	160	160
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	5	5	5
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	12	12	12
HA Pair (Non-Scalable)	60	60	60
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespaces			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A

	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of subsystems			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespace mappings			
Subsystem	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum namespace size			
Namespace	N/A	N/A	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	N/A	N/A	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	N/A	N/A	N/A
Maximum number of hosts			
Subsystem	N/A	N/A	N/A
Maximum number of LIFs - NVMe/oF			
Port	N/A	N/A	N/A
SVM	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of controllers - NVMe/FC			
Port	N/A	N/A	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	100	100	100
Max origin volumes			
Node	100	100	100
HA Pair	200	200	200
Max cache constituent volumes			
Node	800	800	800
HA Pair	1,600	1,600	1,600
Max cache volumes			
Node	100	100	100
HA Pair	200	200	200
Max origin constituent volumes			
Node	800	800	800
HA Pair	1,600	1,600	1,600
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	12,000	12,000	12,000
Cluster	12,000	12,000	12,000
Maximum Number of Objects			

	AFF C190A 10GBASE-T Single Chassis HA Pair	AFF C190 UTA2 Single Chassis HA Pair	AFF C190 2-port UTA2 Single Chassis HA Pair
Specifications			
Bucket	400,000,000,000	400,000,000,000	400,000,000,000
Maximum Number of Users			
Vserver	4,000	4,000	4,000
Cluster	96,000	96,000	96,000
Maximum Size of the Bucket (PB)			
Vserver	20	20	20

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
Storage Limits			
Max Number of Drives (Total)	480	480	480
Max Number of Internal Drives	N/A	N/A	N/A
Max Number of NVMe SSD Drives	N/A	N/A	N/A
Max Number of SSD Drives	480	480	480
Max Number of DS2246 Shelves	20 external	20 external	20 external
Max Number of DS224C Shelves	20 external	20 external	20 external
Max Number of FS4483 Shelves	N/A	N/A	N/A
Max Number of NS224 Shelves	N/A	N/A	N/A
Capacity Limits			
Marketing Maximum Raw Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	14,688,000	14,688,000	14,688,000
Effective Capacity			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	65,192,688	65,192,688	65,192,688
Core Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NAS			
Node	64	64	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of LIFs - NAS			
Node	256	256	256
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of connections - NAS			
Node	2,500	2,500	2,500
HA Pair (Non-Scalable)	5,000	5,000	5,000
Maximum number of flexible volumes - NAS			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NAS			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
Maximum number of lock manager locked objects (CIFS and NFS combined)			
Node	700,000	700,000	700,000
HA Pair	700,000	700,000	700,000
Cluster	N/A	N/A	N/A
Maximum number of Intercluster LIFs			
Node	8	8	8
Minimum Root Aggregate (MiB)			
Node	191,488	191,488	1,222,656
Minimum Root Aggregate (with core dump device) (MiB)			
Node	N/A	N/A	191,488
Minimum Root Volume (GiB)			
Node	150	150	962
Minimum Root Volume (with core dump device) (GiB)			
Node	N/A	N/A	150
Maximum IPsec Policies			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of IPspaces			
Cluster	512	512	512
Maximum Number of Auditing-Enabled SVMs			
Cluster	25	25	25
System Maximums and Limits			
Max Nodes per Cluster (NAS / SAN)	1 / 1	1 / 1	1 / 1
Max FabricPool Size	16800 TiB	16800 TiB	16800 TiB
Max FlexGroup Data Constituent Size	Not Supported	Not Supported	Not Supported
Max Infinite Volume Data Constituent Size	Not Supported	Not Supported	Not Supported
Min Root Volume Size	150 GiB ^[1]	150 GiB ^[1]	962 GiB
NetApp Volume Encryption	Supported	Supported	Supported
Processor			
Processor Model	64-bit 10-core 2.20 Ghz	64-bit 10-core 2.20 Ghz	64-bit 18-core 2.30 Ghz
Processor Architecture	64 bit	64 bit	64 bit
Processor Speed	2.20 Ghz	2.20 Ghz	2.30 Ghz
Processor Count (Per Node)	2	2	2
Processor Count (Per Config)	4	4	4
Processor Cores (Per CPU)	10	10	18
Processor Cores (Per Node)	20	20	36
Processor Cores (Per Config)	40	40	72
Memory			

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
NVMEM (Per Node)	N/A	N/A	N/A
NVMEM (Per Config)	N/A	N/A	N/A
NVRAM (Per Node)	16 GB	16 GB	32 GB
NVRAM (Per Config)	32 GB	32 GB	64 GB
RAM (Per Node)	128 GB	128 GB	512 GB
RAM (Per Config)	256 GB	256 GB	1024 GB
Onboard Ports			
Ethernet Ports	2 x QSFP28 (40Gb) 6 x SFP28 (25Gb)	2 x QSFP28 (40Gb) 2 x SFP28 (25Gb)	-
UTA2 Ports	-	-	-
Expansion Slots	5 x PCIe3	5 x PCIe3	12 x IO Module
SAS Ports	4 x MiniSAS HD (12Gb)	4 x MiniSAS HD (12Gb)	-
Physical Characteristics			
Rack Units	8	8	16
Chassis Height	6.89" (17.5 cm)	6.89" (17.5 cm)	14.02" (35.6 cm)
Chassis Width with Mounting Flanges	19.02" (48.3 cm)	19.02" (48.3 cm)	19.02" (48.3 cm)
Chassis Width without Mounting Flanges	17.6" (44.7 cm)	17.6" (44.7 cm)	17.72" (45 cm)
Chassis Depth with Cable Mgmt	34.72" (88.2 cm)	34.72" (88.2 cm)	36.81" (93.5 cm)
Chassis Depth without Cable Mgmt	32.6" (82.8 cm)	32.6" (82.8 cm)	30.79" (78.2 cm)
Chassis Weight			
System Clearance Dimensions			
Front Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Front Clearance (Maintenance)	34.51" (87.6 cm)	34.51" (87.6 cm)	31.01" (78.7 cm)
Rear Clearance (Cooling)	6.03" (15.3 cm)	6.03" (15.3 cm)	6.03" (15.3 cm)
Rear Clearance (Maintenance)	36.01" (91.4 cm)	36.01" (91.4 cm)	22.02" (55.9 cm)
Environmental Requirements			
Operating Temperature Range	50 to 95 deg F 10 to 35 deg C	50 to 95 deg F 10 to 35 deg C	41 to 113 deg F 5 to 45 deg C
Storage Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Transit Temperature Range	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C	-40 to 158 deg F -40 to 70 deg C
Operating Relative Humidity	8 to 80 %	8 to 80 %	8 to 90 %
Storage Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Transit Relative Humidity	10 to 95 %	10 to 95 %	10 to 95 %
Operating Altitude Range	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m	Up to 10000.0 ft Up to 3048.0 m
Storage Altitude Range	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m	Up to 40000.0 ft Up to 12192.0 m
Transit Altitude Range	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m	Up to 39989.8 ft Up to 12192 m
Acoustic Noise - Sound Power	8.2 bels	8.2 bels	7.4 bels
Acoustic Noise - Sound Pressure	64.1 dBA	64.1 dBA	65 dBA
Input Power Voltage	100 to 120; 200 to 240;	100 to 120; 200 to 240;	100 to 120; 200 to 240;
Storage OS Requirements (for selected major version)			

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
Recommended Version	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10	9.9.1P9, 9.9.1P10
Minimum OS	9.9.1RC1	9.9.1RC1	9.9.1RC1
Maximum OS	9.9.1P10	9.9.1P10	9.9.1P10
Software and Firmware			
* indicates that firmware is bundled with Storage OS			
Version			
BIOS	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	16.7, 16.6 Loader 6.4.12, 16.6 Loader 6.4.11*	10.14, 10.12*
BMC	13.6P1, 13.6, 13.5P1, 13.5*	13.6P1, 13.6, 13.5P1, 13.5*	N/A
Product Standards Compliance			
Certifications EMC/EMI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI	AMCA, FCC, ICES, KC, Morocco, VCCI
Service Processor Firmware	N/A	N/A	4.11, 4.10*
Certifications safety	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS	BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
Certifications Safety/EMC/EMI	EAC, UKRSEPRO	EAC, UKRSEPRO	EAC, UKRSEPRO
Certifications Safety/EMC/EMI/RoHS	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC	BSMI, CE DoC, UKCA DoC
Standards EMC/EMI	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835	BS-EN-55024, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
System Configuration File	n/a	n/a	N/A
Standards Safety	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)	ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 14336, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)
System Availability & Support			
Release Date	Dec 2019	Dec 2019	Oct 2016
End of Availability (EOA)	-	-	-
End of Support (EOS)	-	-	-
NFS Cluster Limits			
Maximum number of Export Policies			
Cluster	6,000	6,000	6,000
Maximum number of Export Rules			
Cluster	70,000	70,000	70,000
Maximum NFSv4 Access Control Entries			
ACL (Access List)	1,024	1,024	1,024
Maximum number of client objects			
Node	102,400	102,400	102,400
HA Pair	102,400	102,400	102,400
Maximum number of pNFS objects			
Node	1,024,000	1,024,000	1,024,000
HA Pair	1,024,000	1,024,000	1,024,000
Cluster	N/A	N/A	N/A

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
WAFL Cluster Limits			
Maximum Size of a 64-bit Aggregate (TiB)			
Aggregate	800	800	800
Maximum Size of a 64-bit Volume (TiB)			
Volume	100	100	100
Maximum file size in a 64-bit Volume (TiB)			
File	16	16	16
Maximum number of Volume Snapshot Copies			
Volume	255	255	255
Node	63,750	63,750	63,750
HA Pair	127,500	127,500	127,500
Maximum character length for Snapshot copy names			
Snapshot	255	255	255
Maximum number of hard links			
File	100,000	100,000	100,000
Maximum number of inodes/files			
Volume	2,000,000,000	2,000,000,000	2,000,000,000
Maximum number of qtrees			
Volume	4,995	4,995	4,995
Node	15,000	15,000	15,000
HA Pair	30,000	30,000	30,000
Cluster	N/A	N/A	N/A
Maximum number of concurrent DataMotion for Volumes (vol move) operations			
Node	8	8	8
HA Pair (Non-Scalable)	16	16	16
Quality of Service Cluster Limits			
Maximum number of Policy Groups			
Cluster	6,000	6,000	6,000
Maximum number of QoS user workloads			
Cluster	20,000	20,000	20,000
SAN Cluster Limits			
Maximum number of storage virtual machines (SVMs) - SAN			
Node	64	64	64
HA Pair	64	64	64
Cluster	64	64	64
Maximum number of flexible volumes - SAN			
Aggregate (Single data Aggregate per Node)	250	250	250
Aggregate (Multiple data Aggregates per Node)	200	200	200
Node	500	500	500

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - SAN			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of LUNs			
Volume	1,024	1,024	1,024
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	N/A	N/A	N/A
Maximum number of LUN mappings			
Node	6,144	6,144	6,144
HA Pair	12,288	12,288	12,288
Cluster	N/A	N/A	N/A
Maximum LUN size (TiB)			
LUN	16	16	16
Maximum FC queue depth available			
Port	2,048	2,048	2,048
Maximum Number of SAN Hosts (ITNs)			
Port	256	256	256
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	N/A	N/A	N/A
Maximum number of LIFS - iSCSI			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of LIFS - FCP			
Port	16	16	16
Portset	32	32	32
Node	128	128	128
HA Pair	256	256	256
Cluster	N/A	N/A	N/A
Maximum number of igroups			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	N/A	N/A	N/A
Maximum number of initiators			
igroup	256	256	256
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096
Cluster	N/A	N/A	N/A
Maximum number of portsets			
Node	2,048	2,048	2,048
HA Pair	4,096	4,096	4,096

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of iSCSI sessions			
Node	4,096	4,096	4,096
HA Pair	8,192	8,192	8,192
Cluster	N/A	N/A	N/A
CIFS Cluster Limits			
Maximum number of connected shares			
Node	500,000	500,000	500,000
HA Pair	500,000	500,000	500,000
Maximum number of regular shares			
Node	150,000	150,000	150,000
HA Pair	150,000	150,000	150,000
Cluster	N/A	N/A	N/A
Maximum number of open files			
Connection	32,768	32,768	32,768
Node	350,000	350,000	350,000
HA Pair	350,000	350,000	350,000
Maximum number of local users			
Cluster	17,500	17,500	17,500
Maximum number of local groups			
Cluster	160,000	160,000	160,000
Maximum number of local group members			
Cluster	320,000	320,000	320,000
Data Protection Cluster Limits			
Maximum number of NDMP sessions			
Node	36	36	36
HA Pair (Non-Scalable)	36	36	36
Maximum number of data protection (DP) mirrors and/or SnapVault relationships			
Volume	1	1	1
Node	500	500	500
HA Pair	1,000	1,000	1,000
Cluster	N/A	N/A	N/A
Maximum number of load sharing (LS) mirrors			
NAS SVM	2	2	2
Maximum number of concurrent Snap Mirror or SnapVault transfers			
Node	100	100	250
Maximum fan-out from source for DP mirror			
Volume	8	8	8
Maximum fan-out from source for LS mirror			
NAS SVM	2	2	2

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
Maximum number of clusters that can be peered			
Cluster	8	8	8
Maximum Number of constituent volumes in a SnapMirror relationship			
FlexGroup	N/A	N/A	N/A
FlexGroup/Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of SnapMirror Synchronous relationships			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of Consistency Groups in SM-BC relationships			
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum number of constituent volumes in SM-BC relationships			
Consistency group	N/A	N/A	N/A
HA Pair (Non-Scalable)	N/A	N/A	N/A
Maximum Number of Flexible Volumes in SVM DR			
SVM	300	300	300
HA Pair	1,000	1,000	1,000
Maximum Number of storage virtual machine disaster recovery (SVM DR) relationship			
Cluster	32	32	32
NVMe/oF Cluster Limits			
Maximum number of storage virtual machines (SVMs) - NVMe/oF			
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of flexible volumes with DPO - NVMe/oF			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespaces			
Volume	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
Cluster	N/A	N/A	N/A
Maximum number of subsystems			
SVM	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of namespace mappings			
Subsystem	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum namespace size			
Namespace	N/A	N/A	N/A
Maximum I/O queue depth available - NVMe/FC			
Queue	N/A	N/A	N/A
Maximum I/O queue count available - NVMe/FC			
Controller	N/A	N/A	N/A
Maximum number of hosts			
Subsystem	N/A	N/A	N/A
Maximum number of LIFs - NVMe/oF			
Port	N/A	N/A	N/A
SVM	N/A	N/A	N/A
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum number of controllers - NVMe/FC			
Port	N/A	N/A	N/A
FlexCache Cluster Limits			
Max caches from/of an origin volume (degree of fan-out)			
Origin	N/A	N/A	N/A
Max origin volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max cache volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
Max origin constituent volumes			
Node	N/A	N/A	N/A
HA Pair	N/A	N/A	N/A
S3 Cluster Limits			
Maximum Number of Buckets			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Number of Objects			

	AFF A400 2-Node Stretch MetroCluster, Optical SAS Ethernet Bundle	AFF A400 2-Node Stretch MetroCluster, Optical SAS, FC Bundle	AFF A700 2-Node Stretch MetroCluster, Optical SAS
Specifications			
Bucket	N/A	N/A	N/A
Maximum Number of Users			
Vserver	N/A	N/A	N/A
Cluster	N/A	N/A	N/A
Maximum Size of the Bucket (PB)			
Vserver	N/A	N/A	N/A

Notes ID	Notes Description
1	The root volume and aggregate on this system are significantly smaller than on previous generation systems. Core dump files that used to be written to the root volume are now written to the controller's boot media, instead.
2	The onboard UTA2 ports can be configured as FC Target/Initiator or CNA (FCoE target/Ethernet). The UTA2 ports are based on a dual port ASIC and both ports on each ASIC must be set to the same mode (enforced by Data ONTAP). Install X6599A-R6 10GbE SFP+ modules or approved copper twinax cables when using in CNA (FCoE target/Ethernet) mode. Install X6596-R6 16Gb FC SFP+ module when using in FC Target/Initiator mode.



Size, Weight, Acoustic, Power

AFF A250 with ONTAP 9.9.1P4

Associated Part No.	Configuration	Rack Units	Weight	Sound Power	Sound Pressure	Line Voltage Actual (Min to Max)	Amps Typical	Amps Worst	Watts Typical	Watts Worst	BTU/Hr Typical	BTU/Hr Worst
Embedded Drive Config (Partially)												
AFF-A250-000-C	AFF A250 100V 2 PCM 8x1.92TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-000-C	AFF A250 2 PCM 8x1.92TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-002-C	AFF A250 100V 2 PCM 8x1.92TB	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.12	8.56	612	856	2089	2923
AFF-A250-002-C	AFF A250 2 PCM 8x1.92TB	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.41	4.64	683	927	2330	3164
AFF-A250-100-C	AFF A250 100V 2 PCM 8x3.84TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-100-C	AFF A250 2 PCM 8x3.84TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-102-C	AFF A250 100V 2 PCM 8x3.84TB NSE	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.35	8.68	635	868	2168	2962
AFF-A250-102-C	AFF A250 2 PCM 8x3.84TB NSE	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.50	4.69	699	938	2386	3200
AFF-A250-104-C	AFF A250 100V 2 PCM 8x7.68TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-104-C	AFF A250 2 PCM 8x7.68TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-106-C	AFF A250 100V 2 PCM 8x15.3TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-106-C	AFF A250 2 PCM 8x15.3TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-108-C	AFF A250 100V 2 PCM 8x3.84TB	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.12	8.56	612	856	2089	2923
AFF-A250-108-C	AFF A250 2 PCM 8x3.84TB	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.41	4.64	683	927	2330	3164
AFF-A250-110-C	AFF A250 100V 2 PCM 8x15.3TB NSE	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.35	8.68	635	868	2168	2962
AFF-A250-110-C	AFF A250 2 PCM 8x15.3TB NSE	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.50	4.69	699	938	2386	3200
Embedded Drive Config (Full)												
AFF-A250-001-C	AFF A250 100V 2 PCM 24x1.92TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-001-C	AFF A250 2 PCM 24x1.92TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-003-C	AFF A250 100V 2 PCM 24x1.92TB	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.08	9.52	708	952	2417	3251
AFF-A250-003-C	AFF A250 2 PCM 24x1.92TB	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.89	5.10	774	1019	2643	3477
AFF-A250-101-C	AFF A250 100V 2 PCM 24x3.84TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-101-C	AFF A250 2 PCM 24x3.84TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-103-C	AFF A250 100V 2 PCM 24x3.84TB NSE	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.65	9.98	765	998	2611	3405
AFF-A250-103-C	AFF A250 2 PCM 24x3.84TB NSE	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.08	5.40	813	1079	2773	3683
AFF-A250-105-C	AFF A250 100V 2 PCM 24x7.68TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-105-C	AFF A250 2 PCM 24x7.68TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-107-C	AFF A250 100V 2 PCM 24x15.3TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-107-C	AFF A250 2 PCM 24x15.3TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-109-C	AFF A250 100V 2 PCM 24x3.84TB	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.08	9.52	708	952	2417	3251
AFF-A250-109-C	AFF A250 2 PCM 24x3.84TB	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.89	5.10	774	1019	2643	3477
AFF-A250-111-C	AFF A250 100V 2 PCM 24x15.3TB NSE	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.65	9.98	765	998	2611	3405
AFF-A250-111-C	AFF A250 2 PCM 24x15.3TB NSE	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.08	5.40	813	1079	2773	3683
Embedded Drive Config (Partially)												
AFF-A250-000-C	AFF A250 100V 2 PCM 8x1.92TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-000-C	AFF A250 2 PCM 8x1.92TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-002-C	AFF A250 100V 2 PCM 8x1.92TB	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.12	8.56	612	856	2089	2923
AFF-A250-002-C	AFF A250 2 PCM 8x1.92TB	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.41	4.64	683	927	2330	3164

AFF-A250-100-C	AFF A250 100V 2 PCM 8x3.84TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-100-C	AFF A250 2 PCM 8x3.84TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-102-C	AFF A250 100V 2 PCM 8x3.84TB NSE	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.35	8.68	635	868	2168	2962
AFF-A250-102-C	AFF A250 2 PCM 8x3.84TB NSE	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.50	4.69	699	938	2386	3200
AFF-A250-104-C	AFF A250 100V 2 PCM 8x7.68TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-104-C	AFF A250 2 PCM 8x7.68TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-106-C	AFF A250 100V 2 PCM 8x15.3TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-106-C	AFF A250 2 PCM 8x15.3TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-108-C	AFF A250 100V 2 PCM 8x3.84TB	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.12	8.56	612	856	2089	2923
AFF-A250-108-C	AFF A250 2 PCM 8x3.84TB	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.41	4.64	683	927	2330	3164
AFF-A250-110-C	AFF A250 100V 2 PCM 8x15.3TB NSE	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.35	8.68	635	868	2168	2962
AFF-A250-110-C	AFF A250 2 PCM 8x15.3TB NSE	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.50	4.69	699	938	2386	3200

Embedded Drive Config (Full)

AFF-A250-001-C	AFF A250 100V 2 PCM 24x1.92TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-001-C	AFF A250 2 PCM 24x1.92TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-003-C	AFF A250 100V 2 PCM 24x1.92TB	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.08	9.52	708	952	2417	3251
AFF-A250-003-C	AFF A250 2 PCM 24x1.92TB	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.89	5.10	774	1019	2643	3477
AFF-A250-101-C	AFF A250 100V 2 PCM 24x3.84TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-101-C	AFF A250 2 PCM 24x3.84TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-103-C	AFF A250 100V 2 PCM 24x3.84TB NSE	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.65	9.98	765	998	2611	3405
AFF-A250-103-C	AFF A250 2 PCM 24x3.84TB NSE	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.08	5.40	813	1079	2773	3683
AFF-A250-105-C	AFF A250 100V 2 PCM 24x7.68TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-105-C	AFF A250 2 PCM 24x7.68TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-107-C	AFF A250 100V 2 PCM 24x15.3TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-107-C	AFF A250 2 PCM 24x15.3TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-109-C	AFF A250 100V 2 PCM 24x3.84TB	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.08	9.52	708	952	2417	3251
AFF-A250-109-C	AFF A250 2 PCM 24x3.84TB	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.89	5.10	774	1019	2643	3477
AFF-A250-111-C	AFF A250 100V 2 PCM 24x15.3TB NSE	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.65	9.98	765	998	2611	3405
AFF-A250-111-C	AFF A250 2 PCM 24x15.3TB NSE	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.08	5.40	813	1079	2773	3683

Embedded Drive Config (Partially)

AFF-A250-000-C	AFF A250 100V 2 PCM 8x1.92TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-000-C	AFF A250 2 PCM 8x1.92TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-002-C	AFF A250 100V 2 PCM 8x1.92TB	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.12	8.56	612	856	2089	2923
AFF-A250-002-C	AFF A250 2 PCM 8x1.92TB	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.41	4.64	683	927	2330	3164
AFF-A250-100-C	AFF A250 100V 2 PCM 8x3.84TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-100-C	AFF A250 2 PCM 8x3.84TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-102-C	AFF A250 100V 2 PCM 8x3.84TB NSE	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.35	8.68	635	868	2168	2962
AFF-A250-102-C	AFF A250 2 PCM 8x3.84TB NSE	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.50	4.69	699	938	2386	3200
AFF-A250-104-C	AFF A250 100V 2 PCM 8x7.68TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-104-C	AFF A250 2 PCM 8x7.68TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-106-C	AFF A250 100V 2 PCM 8x15.3TB SED	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.16	8.53	616	853	2104	2910
AFF-A250-106-C	AFF A250 2 PCM 8x15.3TB SED	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.45	4.69	690	937	2355	3199
AFF-A250-108-C	AFF A250 100V 2 PCM 8x3.84TB	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.12	8.56	612	856	2089	2923
AFF-A250-108-C	AFF A250 2 PCM 8x3.84TB	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.41	4.64	683	927	2330	3164
AFF-A250-110-C	AFF A250 100V 2 PCM 8x15.3TB NSE	2	45.9 lb (20.8 kg)	7.2 Bels	69 dBA	100 (100 to 120)	6.35	8.68	635	868	2168	2962
AFF-A250-110-C	AFF A250 2 PCM 8x15.3TB NSE	2	46.5 lb (21.1 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.50	4.69	699	938	2386	3200

Embedded Drive Config (Full)												
AFF-A250-001-C	AFF A250 100V 2 PCM 24x1.92TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-001-C	AFF A250 2 PCM 24x1.92TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-003-C	AFF A250 100V 2 PCM 24x1.92TB	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.08	9.52	708	952	2417	3251
AFF-A250-003-C	AFF A250 2 PCM 24x1.92TB	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.89	5.10	774	1019	2643	3477
AFF-A250-101-C	AFF A250 100V 2 PCM 24x3.84TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-101-C	AFF A250 2 PCM 24x3.84TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-103-C	AFF A250 100V 2 PCM 24x3.84TB NSE	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.65	9.98	765	998	2611	3405
AFF-A250-103-C	AFF A250 2 PCM 24x3.84TB NSE	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.08	5.40	813	1079	2773	3683
AFF-A250-105-C	AFF A250 100V 2 PCM 24x7.68TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-105-C	AFF A250 2 PCM 24x7.68TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-107-C	AFF A250 100V 2 PCM 24x15.3TB SED	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.67	10.04	767	1004	2619	3425
AFF-A250-107-C	AFF A250 2 PCM 24x15.3TB SED	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.15	5.36	827	1072	2822	3658
AFF-A250-109-C	AFF A250 100V 2 PCM 24x3.84TB	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.08	9.52	708	952	2417	3251
AFF-A250-109-C	AFF A250 2 PCM 24x3.84TB	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	3.89	5.10	774	1019	2643	3477
AFF-A250-111-C	AFF A250 100V 2 PCM 24x15.3TB NSE	2	53.6 lb (24.3 kg)	7.2 Bels	69 dBA	100 (100 to 120)	7.65	9.98	765	998	2611	3405
AFF-A250-111-C	AFF A250 2 PCM 24x15.3TB NSE	2	54.3 lb (24.6 kg)	7.2 Bels	69 dBA	200 (200 to 240)	4.08	5.40	813	1079	2773	3683

AFF A400 with ONTAP 9.9.1P4

Associated Part No.	Configuration	Rack Units	Weight	Sound Power	Sound Pressure	Line Voltage Actual (Min to Max)	Amps Typical	Amps Worst	Watts Typical	Watts Worst	BTU/Hr Typical	BTU/Hr Worst
AFF A400												
AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	100 (100 to 120)	12.84	16.13	1258	1580	4294	5393
AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	200 (200 to 240)	6.30	7.80	1233	1528	4209	5215
AFF A400A FC Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	100 (100 to 120)	12.84	16.13	1258	1580	4294	5393
AFF A400A FC Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	200 (200 to 240)	6.30	7.80	1233	1528	4209	5215
AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	100 (100 to 120)	12.84	16.13	1258	1580	4294	5393
AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	200 (200 to 240)	6.30	7.80	1233	1528	4209	5215
AFF A400A FC Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	100 (100 to 120)	12.84	16.13	1258	1580	4294	5393
AFF A400A FC Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	200 (200 to 240)	6.30	7.80	1233	1528	4209	5215
AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	100 (100 to 120)	12.84	16.13	1258	1580	4294	5393
AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	200 (200 to 240)	6.30	7.80	1233	1528	4209	5215

AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	100 (100 to 120)	12.84	16.13	1258	1580	4294	5393
AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	200 (200 to 240)	6.30	7.80	1233	1528	4209	5215
AFF A400A FC Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	100 (100 to 120)	12.84	16.13	1258	1580	4294	5393
AFF A400A FC Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	200 (200 to 240)	6.30	7.80	1233	1528	4209	5215
AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	100 (100 to 120)	12.84	16.13	1258	1580	4294	5393
AFF A400A Ethernet Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	200 (200 to 240)	6.30	7.80	1233	1528	4209	5215
AFF A400A FC Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	100 (100 to 120)	12.84	16.13	1258	1580	4294	5393
AFF A400A FC Bundle	AFF A400 2 PCM	4	110.0 lb (49.9 kg)	8.5 Bels	67 dBA	200 (200 to 240)	6.30	7.80	1233	1528	4209	5215

AFF A700 with ONTAP 9.9.1P4

Associated Part No.	Configuration	Rack Units	Weight	Sound Power	Sound Pressure	Line Voltage Actual (Min to Max)	Amps Typical	Amps Worst	Watts Typical	Watts Worst	BTU/Hr Typical	BTU/Hr Worst
AFF A700												
AFF A700A	AFF A700 2 PCM 2xSAS, 6xUTA, 6x40Gb, 4x10GbE	8	214.5 lb (97.3 kg)	7.4 Bels	65 dBA	100 (100 to 120)	18.97	19.84	1859	1944	6345	6635
AFF A700A	AFF A700 2 PCM 2xSAS, 6xUTA, 6x40Gb, 4x10GbE	8	214.5 lb (97.3 kg)	7.4 Bels	65 dBA	200 (200 to 240)	9.30	9.73	1822	1906	6219	6505
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x2TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	100 (100 to 120)	17.50	18.36	1715	1799	5854	6140
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x2TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	200 (200 to 240)	8.58	9.00	1681	1764	5738	6021
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x8TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	100 (100 to 120)	17.50	18.36	1715	1799	5854	6140
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x8TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	200 (200 to 240)	8.58	9.00	1681	1764	5738	6021
AFF A700A	AFF A700 2 PCM 2xSAS, 6xUTA, 6x40Gb, 4x10GbE	8	214.5 lb (97.3 kg)	7.4 Bels	65 dBA	100 (100 to 120)	18.97	19.84	1859	1944	6345	6635
AFF A700A	AFF A700 2 PCM 2xSAS, 6xUTA, 6x40Gb, 4x10GbE	8	214.5 lb (97.3 kg)	7.4 Bels	65 dBA	200 (200 to 240)	9.30	9.73	1822	1906	6219	6505
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x2TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	100 (100 to 120)	17.50	18.36	1715	1799	5854	6140
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x2TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	200 (200 to 240)	8.58	9.00	1681	1764	5738	6021
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40Gb, 4x10GbE	8	214.5 lb (97.3 kg)	7.4 Bels	65 dBA	100 (100 to 120)	18.97	19.84	1859	1944	6345	6635

AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x8TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	100 (100 to 120)	17.50	18.36	1715	1799	5854	6140
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x8TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	200 (200 to 240)	8.58	9.00	1681	1764	5738	6021
AFF A700A	AFF A700 2 PCM 2xSAS, 6xUTA, 6x40Gb, 4x10GbE	8	214.5 lb (97.3 kg)	7.4 Bels	65 dBA	100 (100 to 120)	18.97	19.84	1859	1944	6345	6635
AFF A700A	AFF A700 2 PCM 2xSAS, 6xUTA, 6x40Gb, 4x10GbE	8	214.5 lb (97.3 kg)	7.4 Bels	65 dBA	200 (200 to 240)	9.30	9.73	1822	1906	6219	6505
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x2TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	100 (100 to 120)	17.50	18.36	1715	1799	5854	6140
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x2TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	200 (200 to 240)	8.58	9.00	1681	1764	5738	6021
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x8TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	100 (100 to 120)	17.50	18.36	1715	1799	5854	6140
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x8TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	200 (200 to 240)	8.58	9.00	1681	1764	5738	6021
AFF A700A	AFF A700 2 PCM 2xSAS, 6xUTA, 6x40Gb, 4x10GbE	8	214.5 lb (97.3 kg)	7.4 Bels	65 dBA	100 (100 to 120)	18.97	19.84	1859	1944	6345	6635
AFF A700A	AFF A700 2 PCM 2xSAS, 6xUTA, 6x40Gb, 4x10GbE	8	214.5 lb (97.3 kg)	7.4 Bels	65 dBA	200 (200 to 240)	9.30	9.73	1822	1906	6219	6505
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x2TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	100 (100 to 120)	17.50	18.36	1715	1799	5854	6140
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x2TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	200 (200 to 240)	8.58	9.00	1681	1764	5738	6021
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x8TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	100 (100 to 120)	17.50	18.36	1715	1799	5854	6140
AFF A700A	AFF A700 2 PCM 4xSAS, 2xUTA, 6x40G, 2x8TB	8	198.0 lb (89.8 kg)	7.4 Bels	65 dBA	200 (200 to 240)	8.58	9.00	1681	1764	5738	6021

AFF A800 with ONTAP 9.9.1P4

Associated Part No.	Configuration	Rack Units	Weight	Sound Power	Sound Pressure	Line Voltage Actual (Min to Max)	Amps Typical	Amps Worst	Watts Typical	Watts Worst	BTU/Hr Typical	BTU/Hr Worst
AFF A800												
AFF A800A	AFF A800 2 PCM 12x1.92TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 12x15.3TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 12x3.84TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 12x7.68TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 14x1.92TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421

AFF A800A	AFF A800 2 PCM 14x15.3TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 14x3.84TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 14x7.68TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 16x1.92TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 16x15.3TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 16x3.84TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 16x7.68TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 18x1.92TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 18x15.3TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 18x3.84TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 18x7.68TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 20x1.92TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 20x15.3TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 20x3.84TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 20x7.68TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 22x1.92TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 22x15.3TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 22x3.84TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 22x7.68TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 24x1.92TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 24x15.3TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 24x3.84TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 24x7.68TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714

AFF A800A	AFF A800 2 PCM 26x1.92TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 26x15.3TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 26x3.84TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 26x7.68TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 28x1.92TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 28x15.3TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 28x3.84TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 28x7.68TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 30x1.92TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 30x15.3TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 30x3.84TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 30x7.68TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 32x1.92TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 32x15.3TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 32x3.84TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 32x7.68TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 34x1.92TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 34x15.3TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 34x3.84TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 34x7.68TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 36x1.92TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 36x15.3TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 36x3.84TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065

AFF A800A	AFF A800 2 PCM 36x7.68TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 38x1.92TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 38x15.3TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 38x3.84TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 38x7.68TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 40x1.92TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 40x15.3TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 40x3.84TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 40x7.68TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 42x1.92TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 42x15.3TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 42x3.84TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 42x7.68TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 44x1.92TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 44x15.3TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 44x3.84TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 44x7.68TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 46x1.92TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 46x15.3TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 46x3.84TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 46x7.68TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 48x1.92TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 48x15.3TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417

AFF A800A	AFF A800 2 PCM 48x3.84TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 48x7.68TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 12x1.92TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 12x15.3TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 12x3.84TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 12x7.68TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 14x1.92TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 14x15.3TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 14x3.84TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 14x7.68TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 16x1.92TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 16x15.3TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 16x3.84TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 16x7.68TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 18x1.92TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 18x15.3TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 18x3.84TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 18x7.68TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 20x1.92TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 20x15.3TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 20x3.84TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 20x7.68TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 22x1.92TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655

AFF A800A	AFF A800 2 PCM 22x15.3TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 22x3.84TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 22x7.68TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 24x1.92TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 24x15.3TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 24x3.84TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 24x7.68TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 26x1.92TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 26x15.3TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 26x3.84TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 26x7.68TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 28x1.92TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 28x15.3TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 28x3.84TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 28x7.68TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 30x1.92TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 30x15.3TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 30x3.84TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 30x7.68TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 32x1.92TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 32x15.3TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 32x3.84TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 32x7.68TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948

AFF A800A	AFF A800 2 PCM 34x1.92TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 34x15.3TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 34x3.84TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 34x7.68TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 36x1.92TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 36x15.3TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 36x3.84TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 36x7.68TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 38x1.92TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 38x15.3TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 38x3.84TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 38x7.68TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 40x1.92TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 40x15.3TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 40x3.84TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 40x7.68TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 42x1.92TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 42x15.3TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 42x3.84TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 42x7.68TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 44x1.92TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 44x15.3TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 44x3.84TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300

AFF A800A	AFF A800 2 PCM 44x7.68TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 46x1.92TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 46x15.3TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 46x3.84TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 46x7.68TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 48x1.92TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 48x15.3TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 48x3.84TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 48x7.68TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 12x1.92TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 12x15.3TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 12x3.84TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 12x7.68TB ALL ENCRYPTION TYPES	4	112.7 lb (51.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.16	10.79	1632	2157	5571	7363
AFF A800A	AFF A800 2 PCM 14x1.92TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 14x15.3TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 14x3.84TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 14x7.68TB ALL ENCRYPTION TYPES	4	113.8 lb (51.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.25	10.87	1649	2174	5630	7421
AFF A800A	AFF A800 2 PCM 16x1.92TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 16x15.3TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 16x3.84TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 16x7.68TB ALL ENCRYPTION TYPES	4	114.9 lb (52.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.33	10.96	1667	2191	5688	7480
AFF A800A	AFF A800 2 PCM 18x1.92TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 18x15.3TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538

AFF A800A	AFF A800 2 PCM 18x3.84TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 18x7.68TB ALL ENCRYPTION TYPES	4	116.0 lb (52.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.42	11.04	1684	2209	5747	7538
AFF A800A	AFF A800 2 PCM 20x1.92TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 20x15.3TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 20x3.84TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 20x7.68TB ALL ENCRYPTION TYPES	4	117.1 lb (53.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.50	11.13	1701	2226	5806	7597
AFF A800A	AFF A800 2 PCM 22x1.92TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 22x15.3TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 22x3.84TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 22x7.68TB ALL ENCRYPTION TYPES	4	118.2 lb (53.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.59	11.21	1718	2243	5864	7655
AFF A800A	AFF A800 2 PCM 24x1.92TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 24x15.3TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 24x3.84TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 24x7.68TB ALL ENCRYPTION TYPES	4	119.3 lb (54.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.68	11.30	1735	2260	5923	7714
AFF A800A	AFF A800 2 PCM 26x1.92TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 26x15.3TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 26x3.84TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 26x7.68TB ALL ENCRYPTION TYPES	4	120.4 lb (54.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.76	11.39	1752	2277	5981	7773
AFF A800A	AFF A800 2 PCM 28x1.92TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 28x15.3TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 28x3.84TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 28x7.68TB ALL ENCRYPTION TYPES	4	121.5 lb (55.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.85	11.47	1770	2294	6040	7831
AFF A800A	AFF A800 2 PCM 30x1.92TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890

AFF A800A	AFF A800 2 PCM 30x15.3TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 30x3.84TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 30x7.68TB ALL ENCRYPTION TYPES	4	122.6 lb (55.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	8.93	11.56	1787	2312	6098	7890
AFF A800A	AFF A800 2 PCM 32x1.92TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 32x15.3TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 32x3.84TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 32x7.68TB ALL ENCRYPTION TYPES	4	123.7 lb (56.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.02	11.64	1804	2329	6157	7948
AFF A800A	AFF A800 2 PCM 34x1.92TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 34x15.3TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 34x3.84TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 34x7.68TB ALL ENCRYPTION TYPES	4	124.8 lb (56.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.11	11.73	1821	2346	6216	8007
AFF A800A	AFF A800 2 PCM 36x1.92TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 36x15.3TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 36x3.84TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 36x7.68TB ALL ENCRYPTION TYPES	4	125.9 lb (57.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.19	11.82	1838	2363	6274	8065
AFF A800A	AFF A800 2 PCM 38x1.92TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 38x15.3TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 38x3.84TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 38x7.68TB ALL ENCRYPTION TYPES	4	127.0 lb (57.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.28	11.90	1855	2380	6333	8124
AFF A800A	AFF A800 2 PCM 40x1.92TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 40x15.3TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 40x3.84TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183
AFF A800A	AFF A800 2 PCM 40x7.68TB ALL ENCRYPTION TYPES	4	128.1 lb (58.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.36	11.99	1873	2397	6391	8183

AFF A800A	AFF A800 2 PCM 42x1.92TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 42x15.3TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 42x3.84TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 42x7.68TB ALL ENCRYPTION TYPES	4	129.2 lb (58.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.45	12.07	1890	2415	6450	8241
AFF A800A	AFF A800 2 PCM 44x1.92TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 44x15.3TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 44x3.84TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 44x7.68TB ALL ENCRYPTION TYPES	4	130.3 lb (59.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.53	12.16	1907	2432	6508	8300
AFF A800A	AFF A800 2 PCM 46x1.92TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 46x15.3TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 46x3.84TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 46x7.68TB ALL ENCRYPTION TYPES	4	131.4 lb (59.6 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.62	12.24	1924	2449	6567	8358
AFF A800A	AFF A800 2 PCM 48x1.92TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 48x15.3TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 48x3.84TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417
AFF A800A	AFF A800 2 PCM 48x7.68TB ALL ENCRYPTION TYPES	4	132.5 lb (60.1 kg)	8.0 Bels	63 dBA	200 (200 to 240)	9.71	12.33	1941	2466	6626	8417

AFF C190 with ONTAP 9.9.1P4

Associated Part No.	Configuration	Rack Units	Weight	Sound Power	Sound Pressure	Line Voltage Actual (Min to Max)	Amps Typical	Amps Worst	Watts Typical	Watts Worst	BTU/Hr Typical	BTU/Hr Worst
AFF C190												
AFF C190A 10GBASE-T	AFF C190 2 PCM 10GBASE-T 12x960GB SSD	2	51.8 lb (23.5 kg)	6.9 Bels	51 dBA	100 (100 to 120)	3.24	4.67	317	457	1082	1560
AFF C190A 10GBASE-T	AFF C190 2 PCM 10GBASE-T 12x960GB SSD	2	51.8 lb (23.5 kg)	6.9 Bels	51 dBA	200 (200 to 240)	1.59	2.29	311	448	1062	1529
AFF C190A 10GBASE-T	AFF C190 2 PCM 10GBASE-T 18x960GB SSD	2	56.4 lb (25.6 kg)	6.9 Bels	51 dBA	100 (100 to 120)	3.45	4.88	338	478	1152	1630

AFF C190A 10GBASE-T	AFF C190 2 PCM 10GBASE-T 18x960GB SSD	2	56.4 lb (25.6 kg)	6.9 Bels	51 dBA	200 (200 to 240)	1.70	2.40	331	468	1130	1598
AFF C190A 10GBASE-T	AFF C190 2 PCM 10GBASE-T 24x960GB SSD	2	60.8 lb (27.6 kg)	6.9 Bels	51 dBA	100 (100 to 120)	3.75	5.18	367	507	1253	1731
AFF C190A 10GBASE-T	AFF C190 2 PCM 10GBASE-T 24x960GB SSD	2	60.8 lb (27.6 kg)	6.9 Bels	51 dBA	200 (200 to 240)	1.84	2.54	360	497	1229	1697
AFF C190A 10GBASE-T	AFF C190 2 PCM 10GBASE-T 8x960GB SSD	2	46.7 lb (21.2 kg)	6.9 Bels	51 dBA	100 (100 to 120)	3.03	4.45	296	436	1011	1489
AFF C190A 10GBASE-T	AFF C190 2 PCM 10GBASE-T 8x960GB SSD	2	46.7 lb (21.2 kg)	6.9 Bels	51 dBA	200 (200 to 240)	1.49	2.19	291	428	994	1461
AFF C190A 2-port UTA2	AFF C190 2 PCM 10GBASE-T 12x960GB SSD	2	51.8 lb (23.5 kg)	6.9 Bels	51 dBA	100 (100 to 120)	3.24	4.67	317	457	1082	1560
AFF C190A 2-port UTA2	AFF C190 2 PCM 10GBASE-T 12x960GB SSD	2	51.8 lb (23.5 kg)	6.9 Bels	51 dBA	200 (200 to 240)	1.59	2.29	311	448	1062	1529
AFF C190A 2-port UTA2	AFF C190 2 PCM 10GBASE-T 18x960GB SSD	2	56.4 lb (25.6 kg)	6.9 Bels	51 dBA	100 (100 to 120)	3.45	4.88	338	478	1152	1630
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AFF C190A 2-port UTA2	AFF C190 2 PCM 10GBASE-T 24x960GB SSD	2	60.8 lb (27.6 kg)	6.9 Bels	51 dBA	100 (100 to 120)	3.75	5.18	367	507	1253	1731
AFF C190A 2-port UTA2	AFF C190 2 PCM 10GBASE-T 24x960GB SSD	2	60.8 lb (27.6 kg)	6.9 Bels	51 dBA	200 (200 to 240)	1.84	2.54	360	497	1229	1697
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AFF C190A 2-port UTA2	AFF C190 2 PCM UTA2 12x960GB SSD	2	51.8 lb (23.5 kg)	6.9 Bels	51 dBA	200 (200 to 240)	1.59	2.29	311	448	1062	1529
AFF C190A 2-port UTA2	AFF C190 2 PCM UTA2 18x960GB SSD	2	56.4 lb (25.6 kg)	6.9 Bels	51 dBA	100 (100 to 120)	3.45	4.88	338	478	1152	1630
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AFF C190A 2-port UTA2	AFF C190 2 PCM UTA2 24x960GB SSD	2	60.8 lb (27.6 kg)	6.9 Bels	51 dBA	100 (100 to 120)	3.75	5.18	367	507	1253	1731
AFF C190A 2-port UTA2	AFF C190 2 PCM UTA2 24x960GB SSD	2	60.8 lb (27.6 kg)	6.9 Bels	51 dBA	200 (200 to 240)	1.84	2.54	360	497	1229	1697
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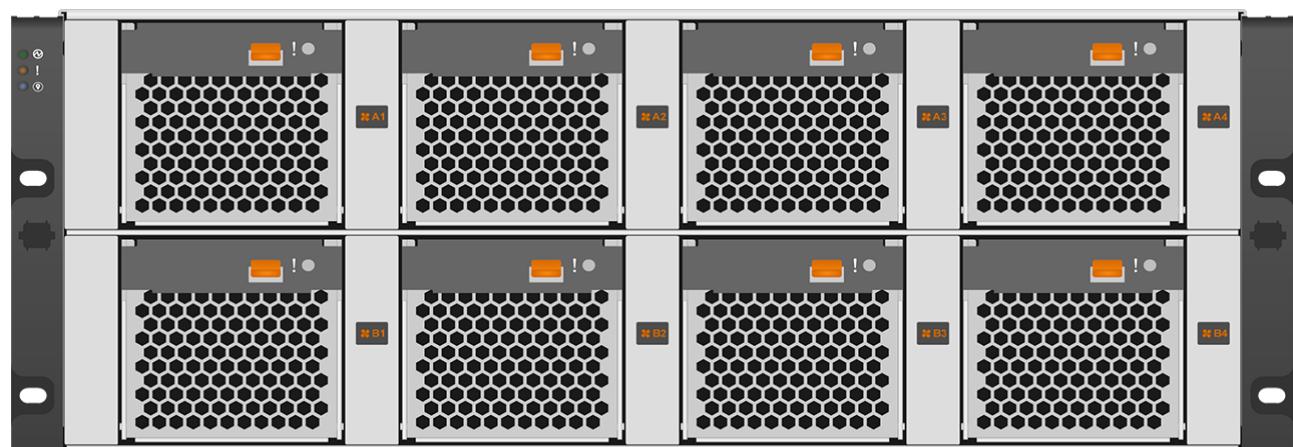
Alternate View Images

Rear View - AFF A250 (Controller + Controller)

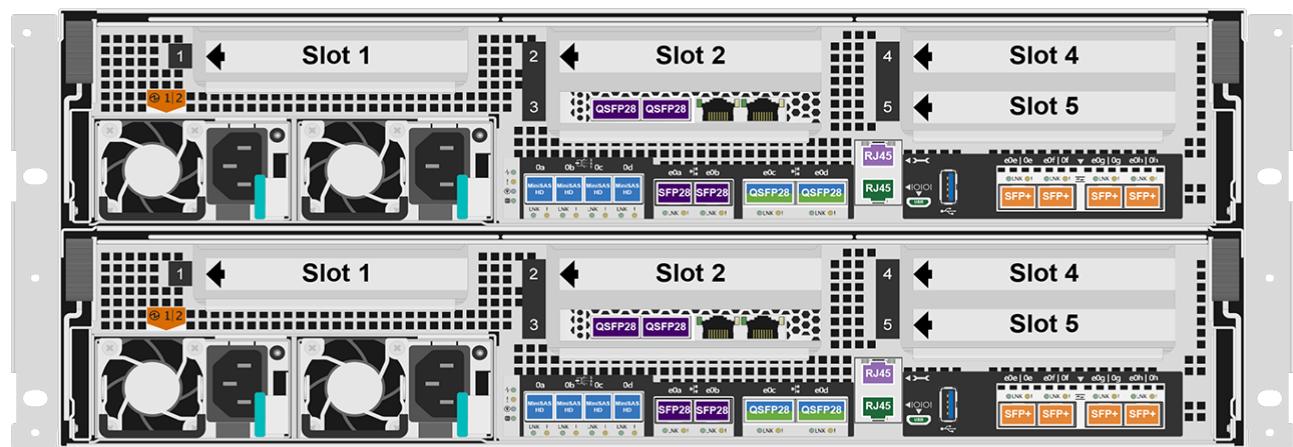
Rear View - AFF A250 (Controller + Controller)

Rear View - AFF A400 (Controller + Controller)

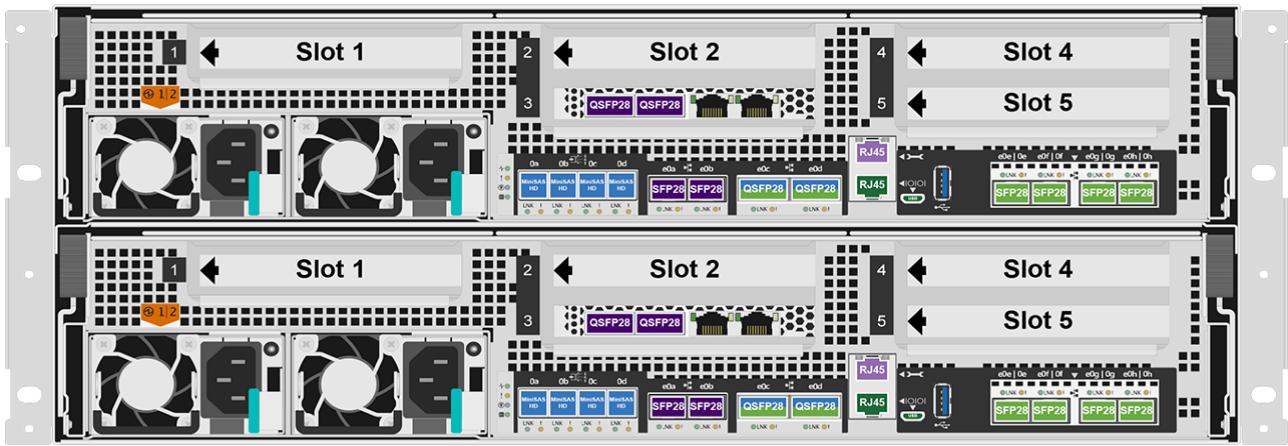
AFF A400 - Front [Open]



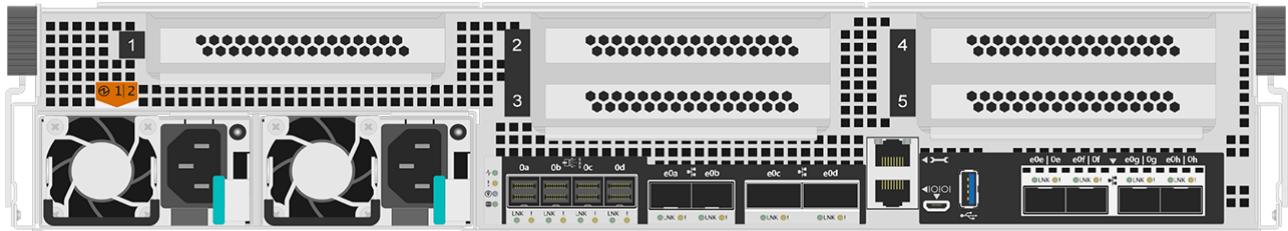
AFF A400 - Rear [FC Config]



AFF A400 - Rear [Ethernet Config]

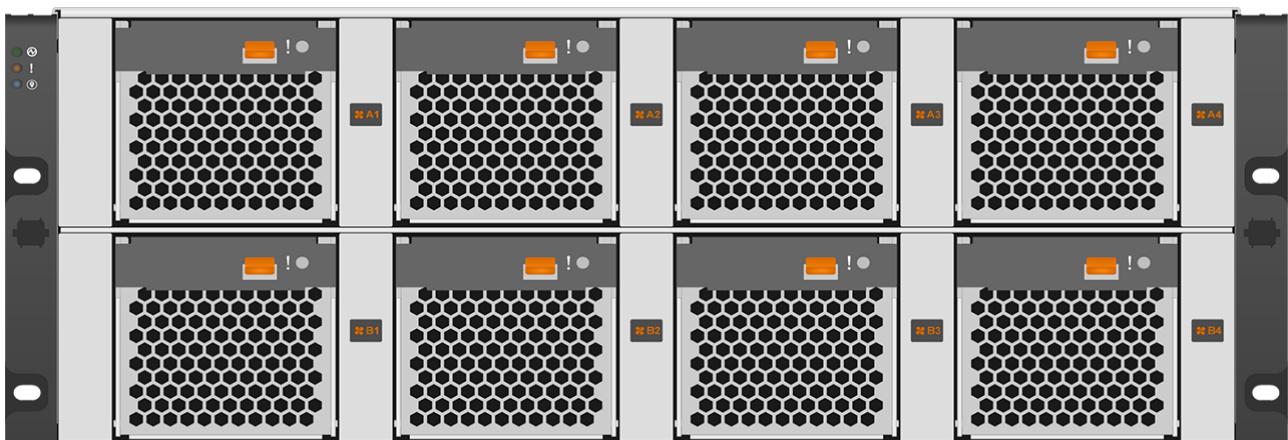


AFF A400 - Rear [PCM]

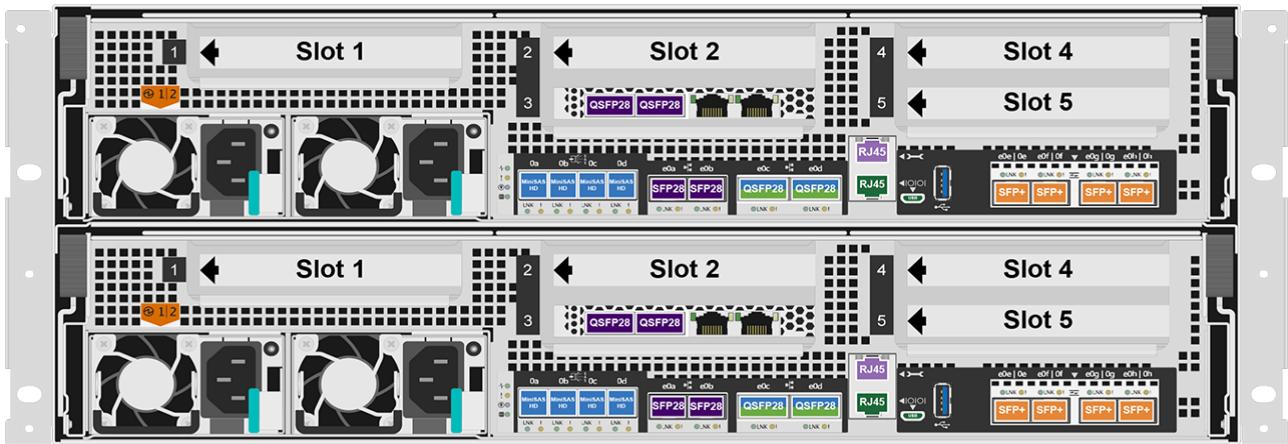


Rear View - AFF A400 (Controller + Controller)

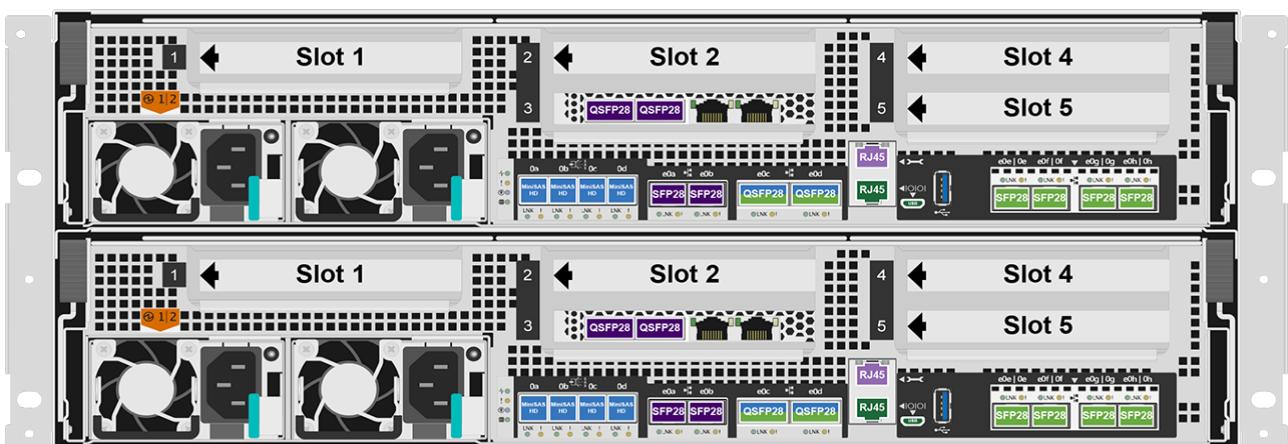
AFF A400 - Front [Open]



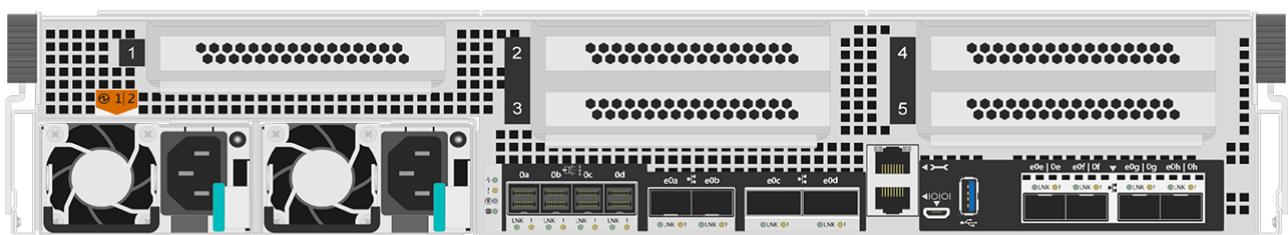
AFF A400 - Rear [FC Config]



AFF A400 - Rear [Ethernet Config]



AFF A400 - Rear [PCM]

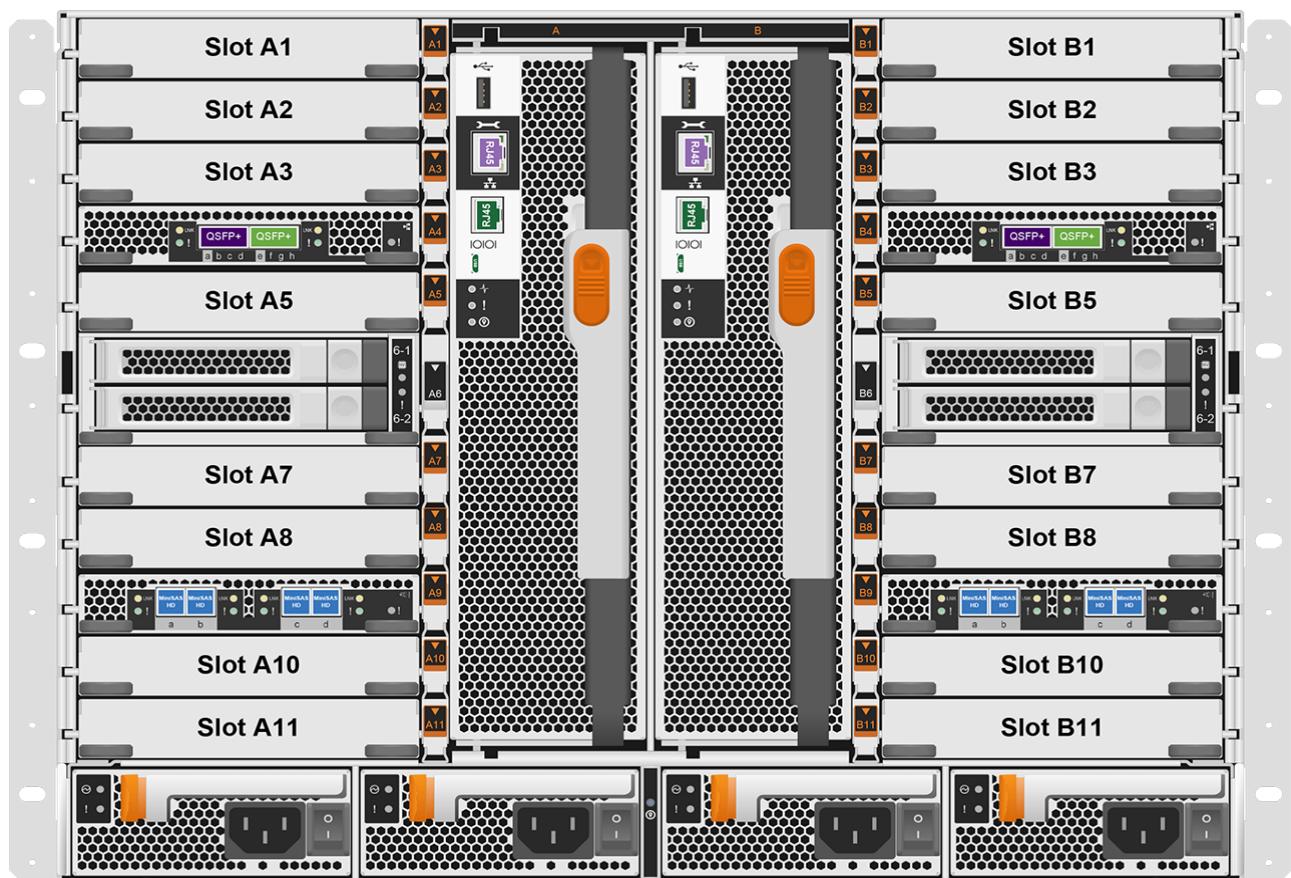


Rear View - AFF A700 (Controller + Controller)

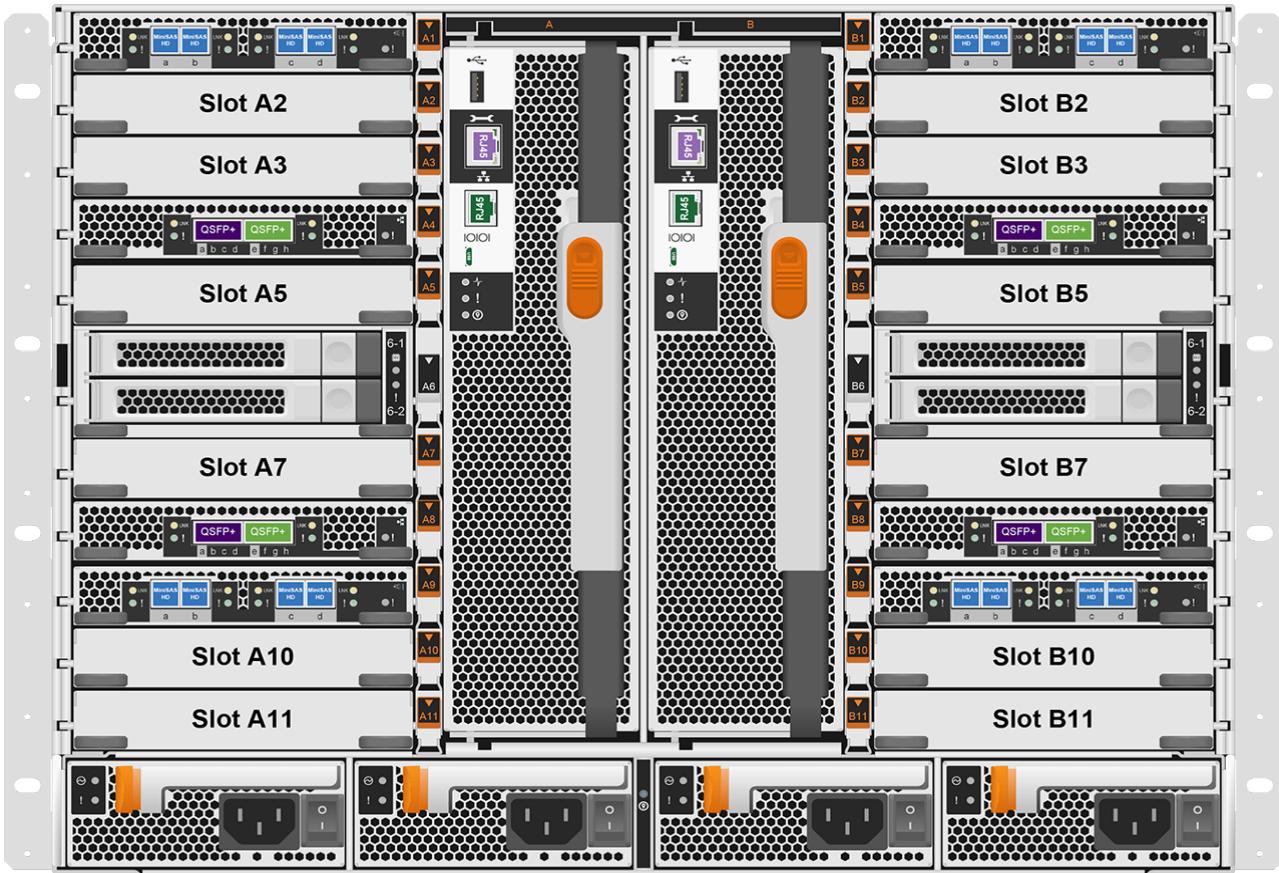
AFF A700 - Front [Open]



AFF A700 - Rear [Base Config]

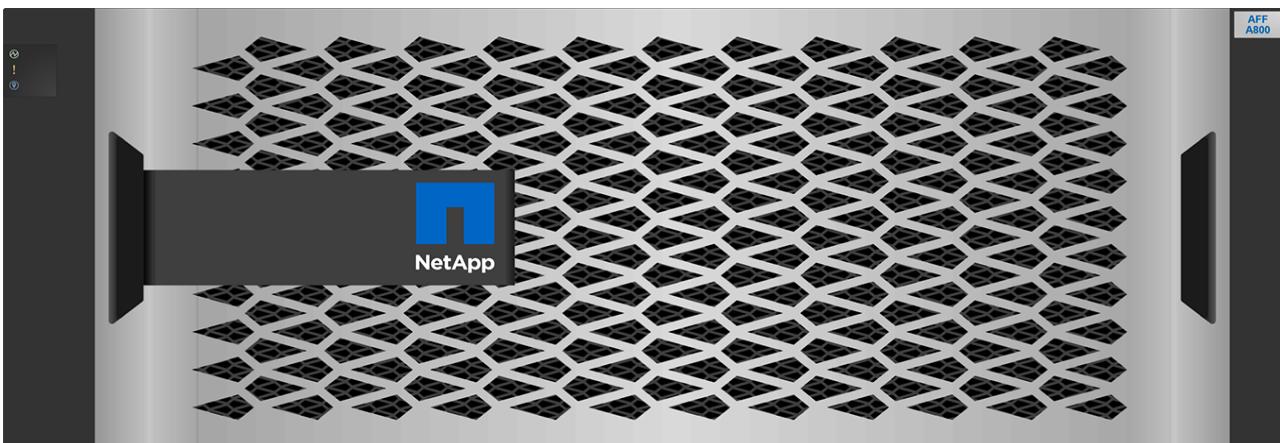


AFF A700 - Rear [Dual 40Gb NIC]

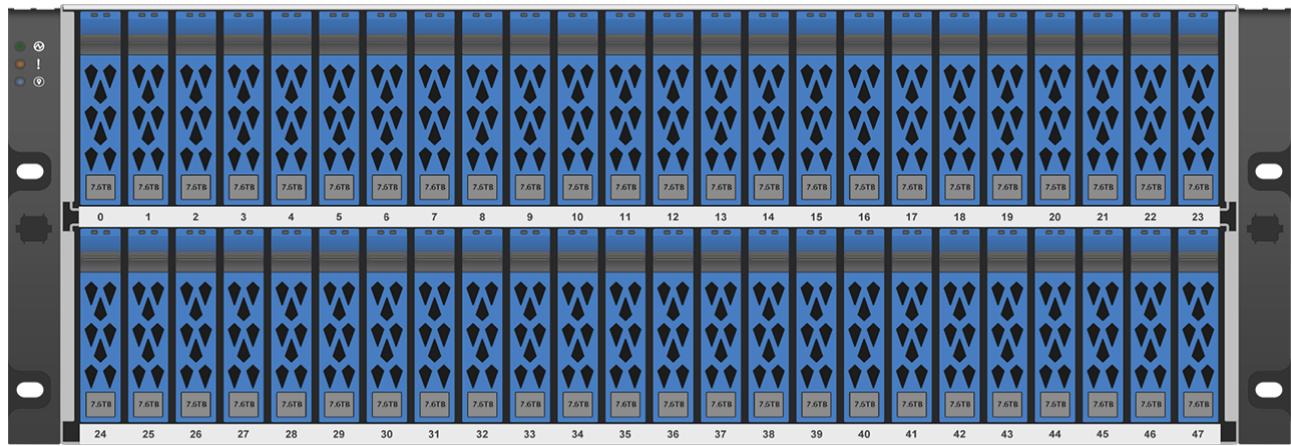


Rear View - AFF A800 (Controller + Controller)

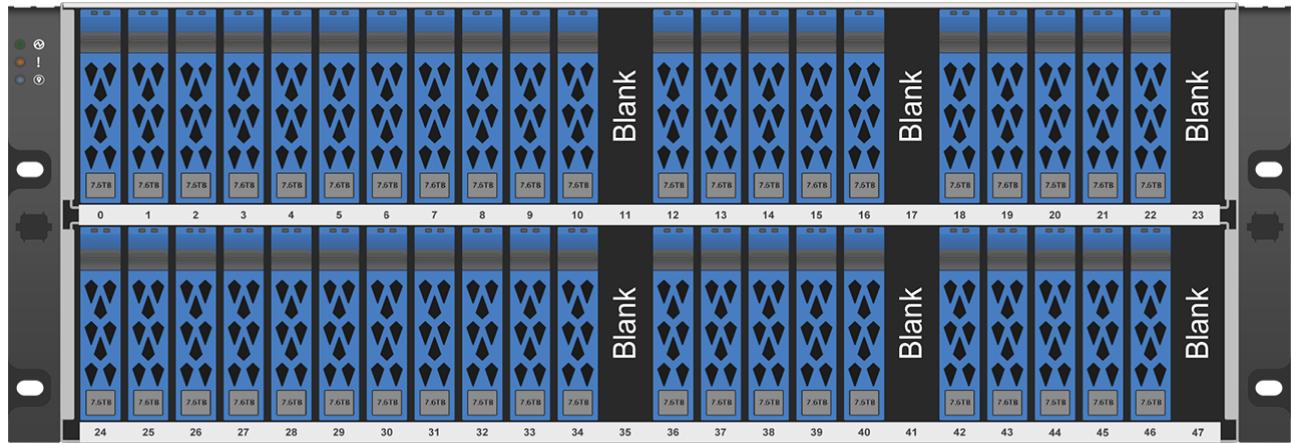
AFF A800 - Front Bezel



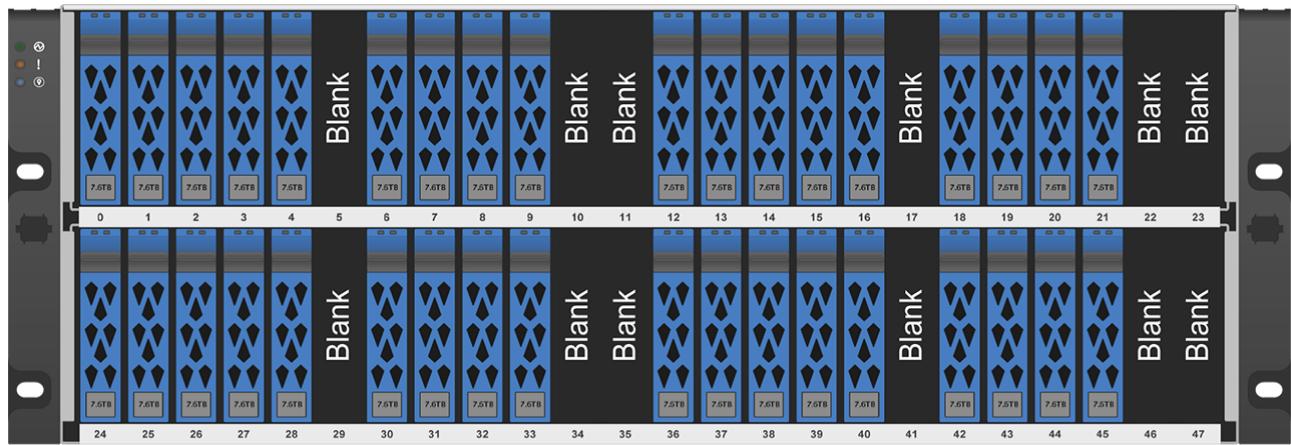
AFF A800 - Front Open [48 SSDs]



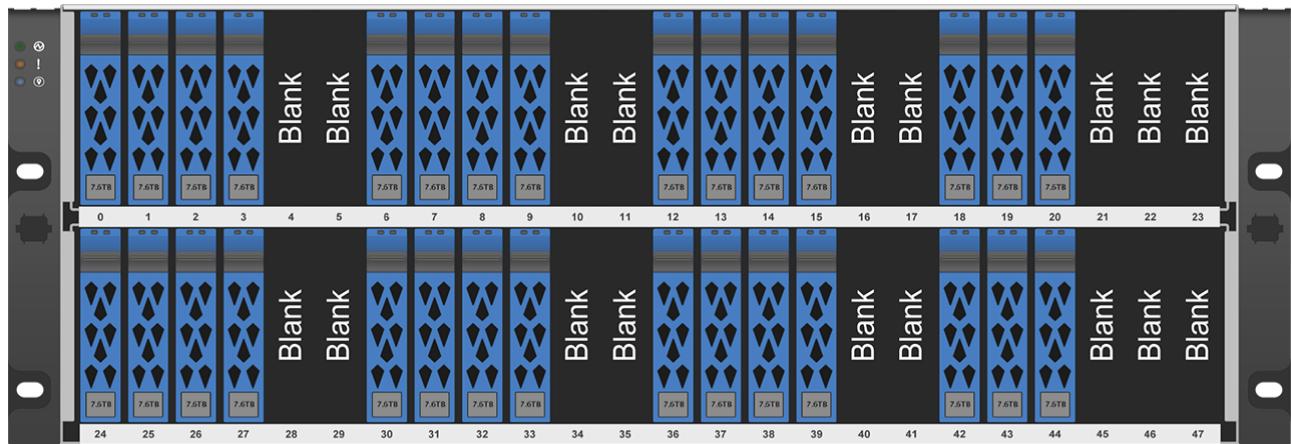
AFF A800 - Front Open [42 SSDs]



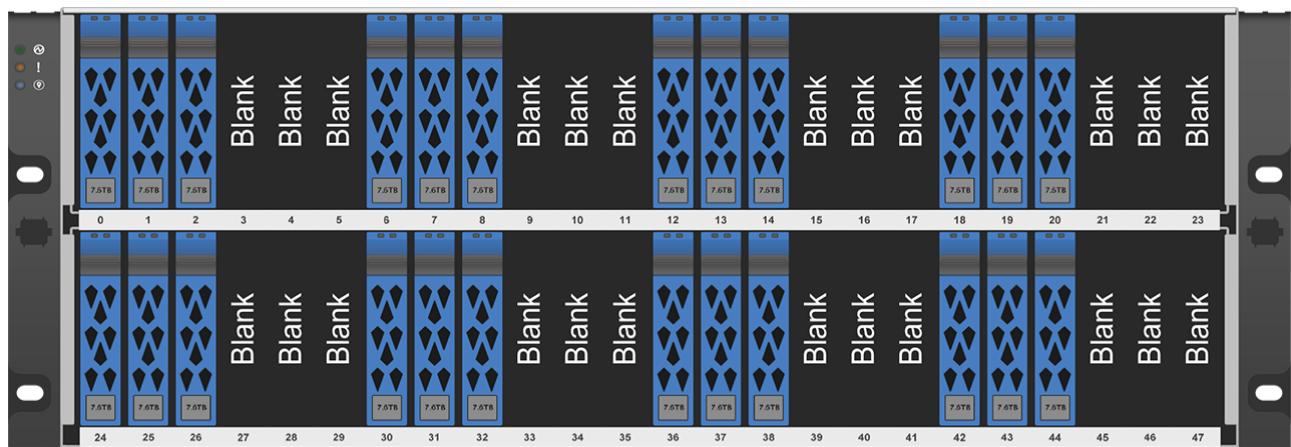
AFF A800 - Front Open [36 SSDs]



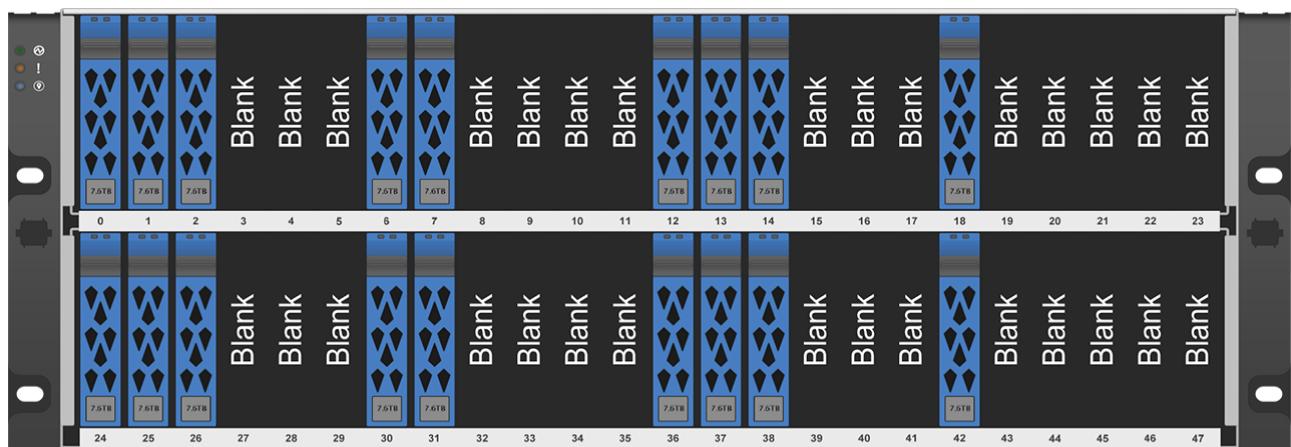
AFF A800 - Front Open [30 SSDs]



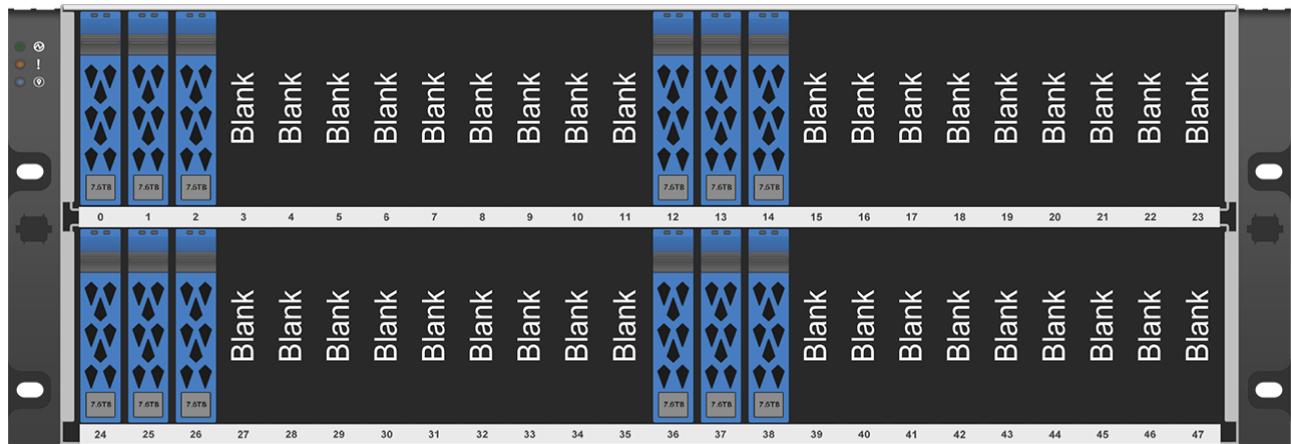
AFF A800 - Front Open [24 SSDs]



AFF A800 - Front Open [18 SSDs]

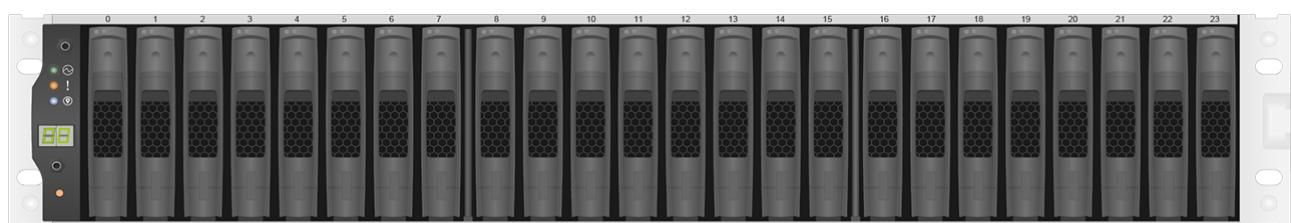


AFF A800 - Front Open [12 SSDs]

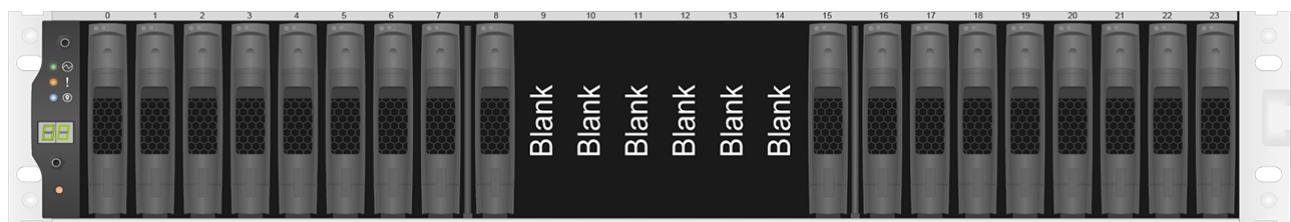


Rear View - AFF C190 (Controller + Controller)

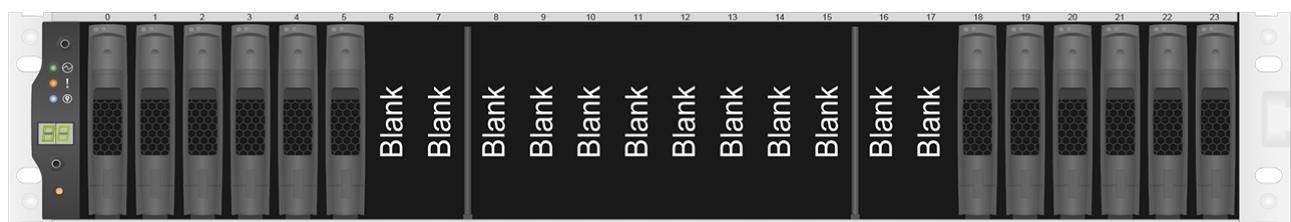
AFF C190 - Front Open [24 SSDs]



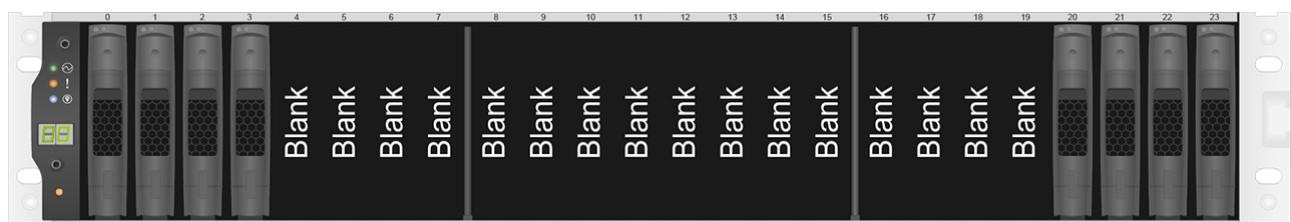
AFF C190 - Front Open [18 SSDs]



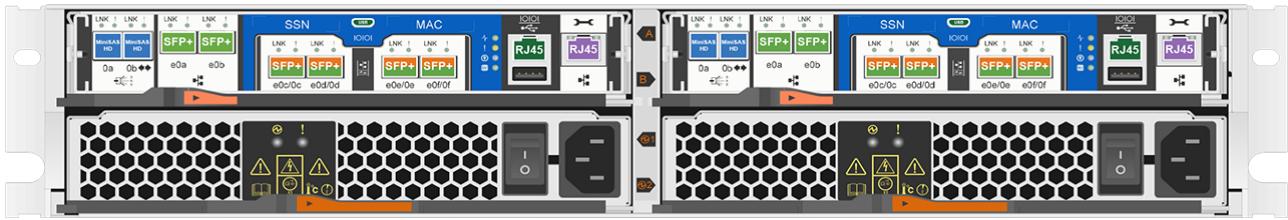
AFF C190 - Front Open [12 SSDs]



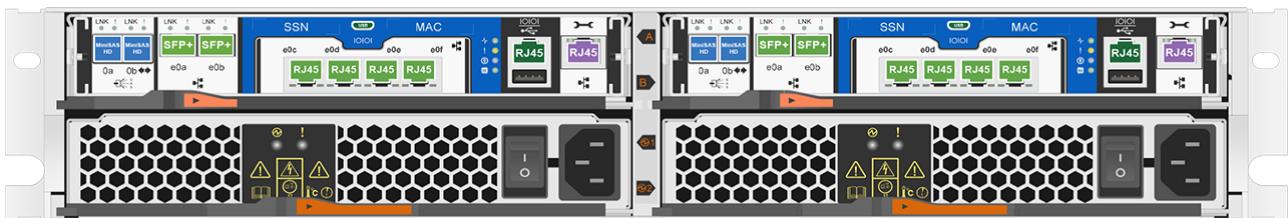
AFF C190 - Front Open [8 SSDs]



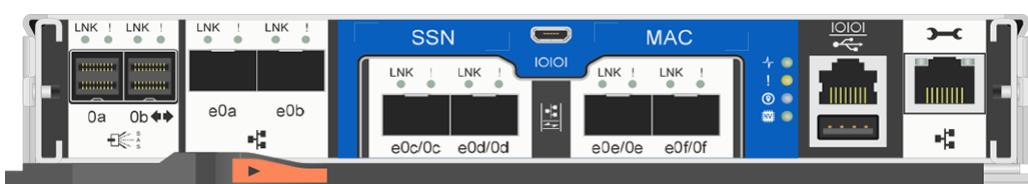
AFF C190 - Rear UTA2 [HA Pair]



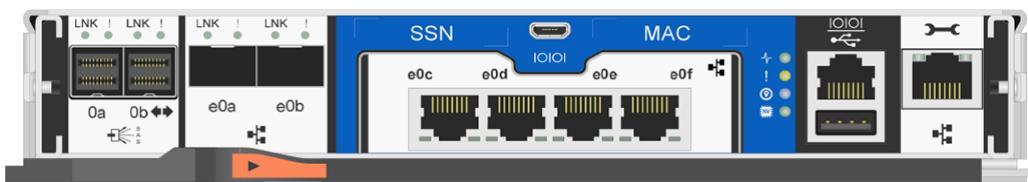
AFF C190 - Rear 10GbE-T [HA Pair]



AFF C190 - Rear UTA2 [PCM]

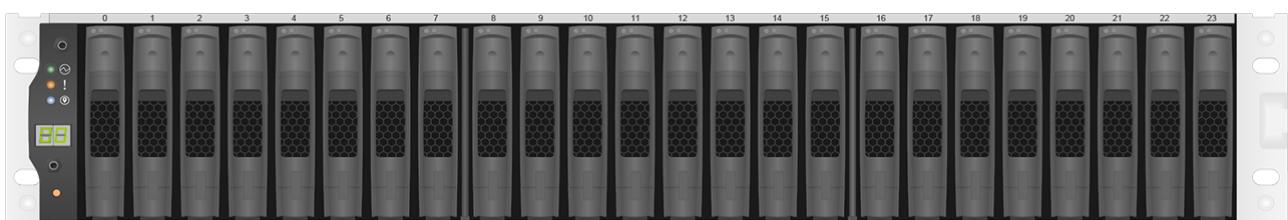


AFF C190 - Rear 10GbE-T [PCM]

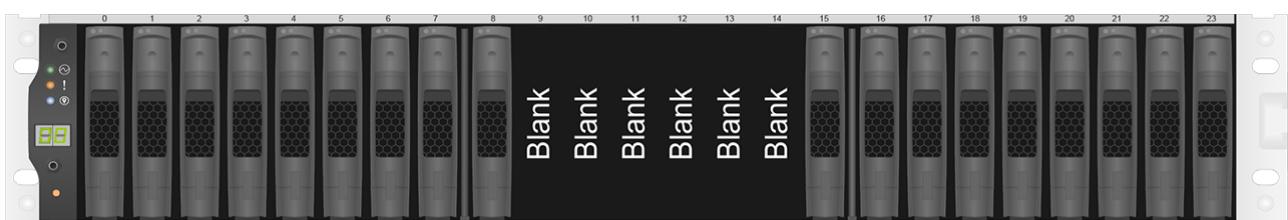


Rear View - AFF C190 (Controller + Controller)

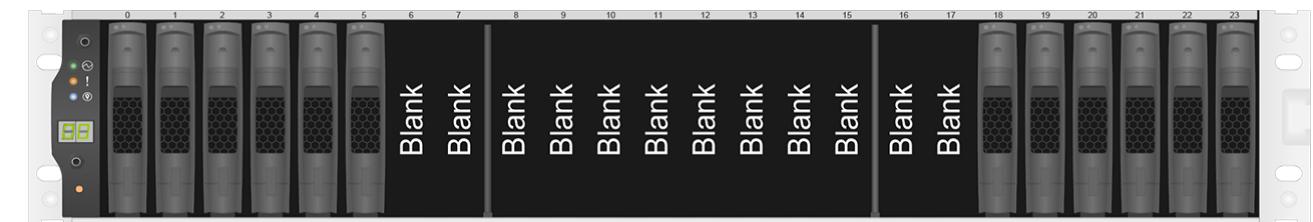
AFF C190 - Front Open [24 SSDs]



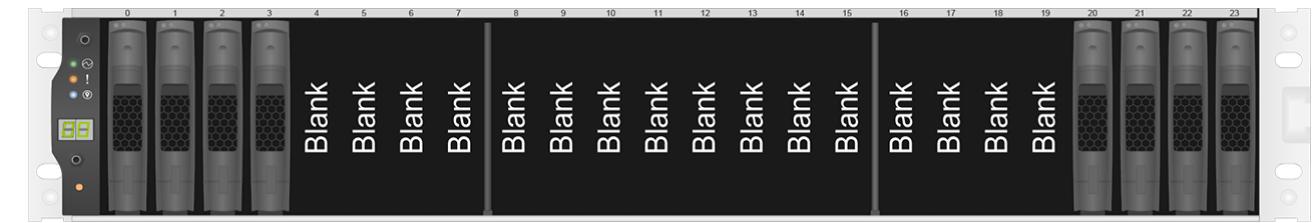
AFF C190 - Front Open [18 SSDs]



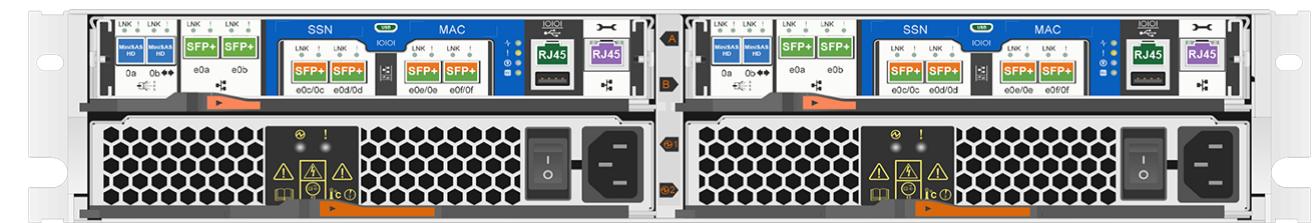
AFF C190 - Front Open [12 SSDs]



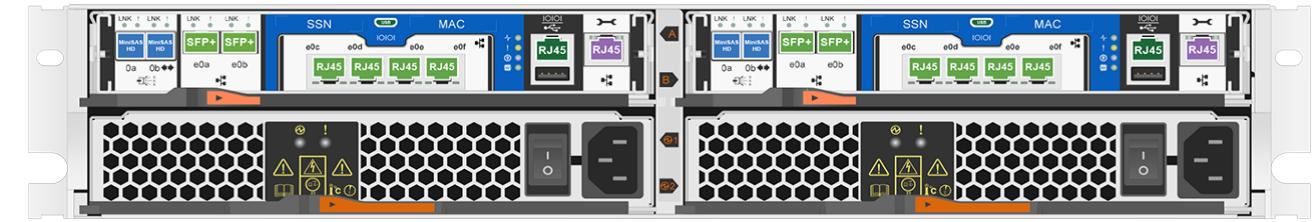
AFF C190 - Front Open [8 SSDs]



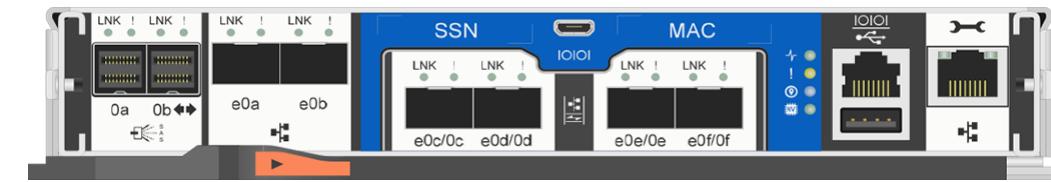
AFF C190 - Rear UTA2 [HA Pair]



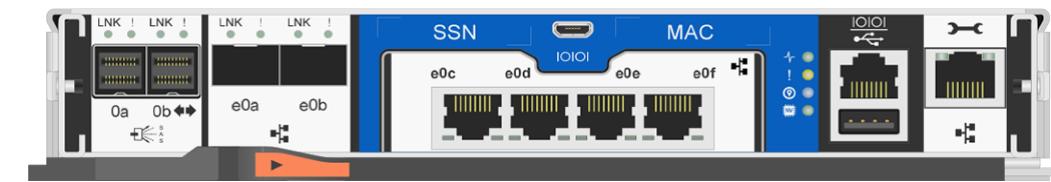
AFF C190 - Rear 10GbE-T [HA Pair]



AFF C190 - Rear UTA2 [PCM]

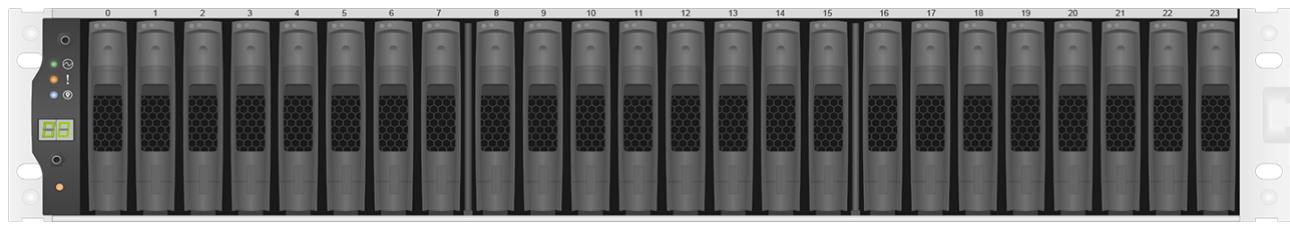


AFF C190 - Rear 10GbE-T [PCM]

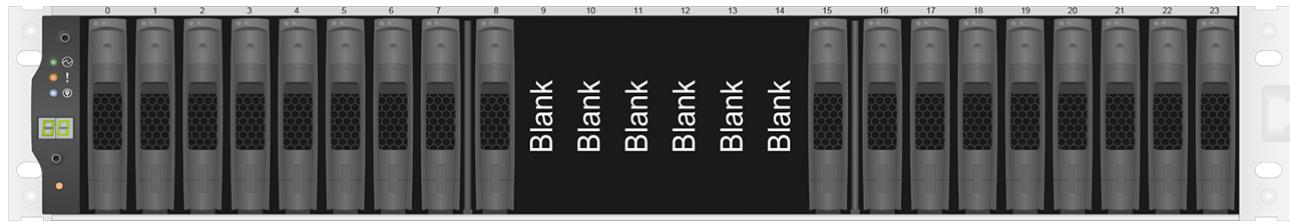


Rear View - AFF C190 (Controller + Controller)

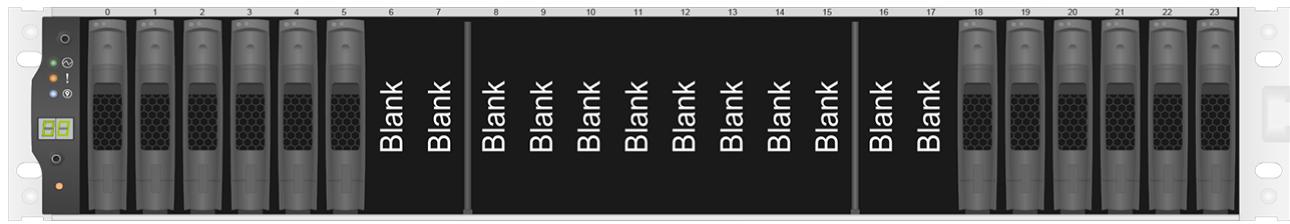
AFF C190 - Front Open [24 SSDs]



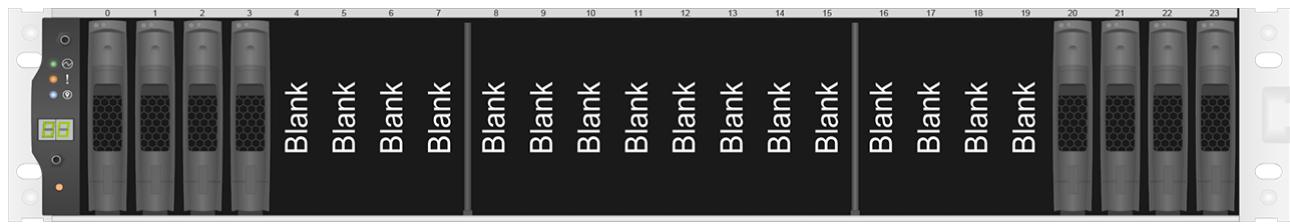
AFF C190 - Front Open [18 SSDs]



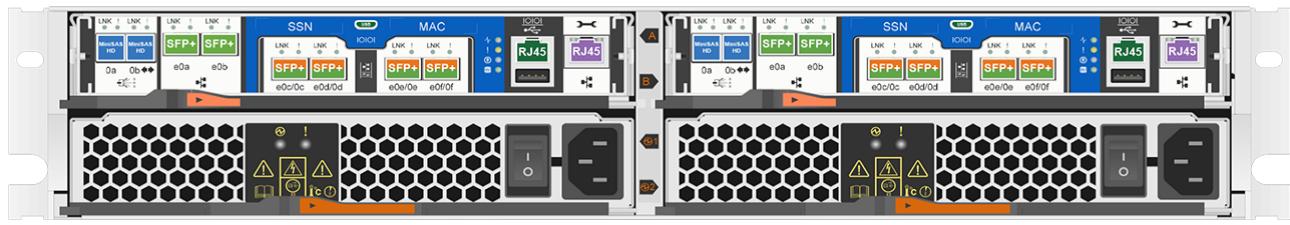
AFF C190 - Front Open [12 SSDs]



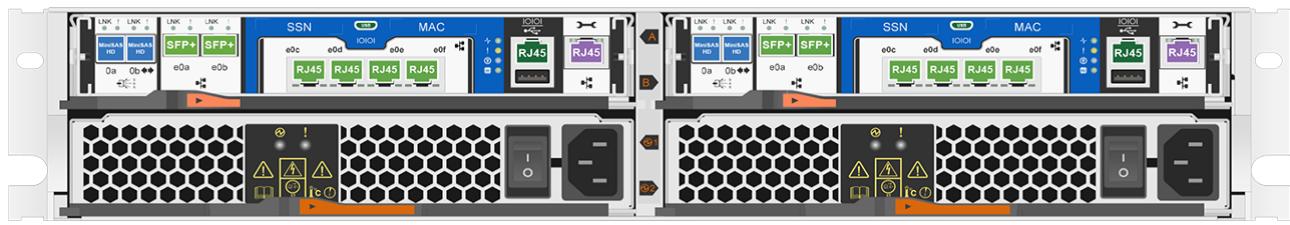
AFF C190 - Front Open [8 SSDs]



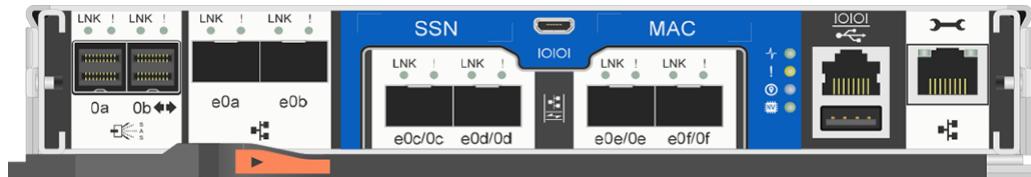
AFF C190 - Rear UTA2 [HA Pair]



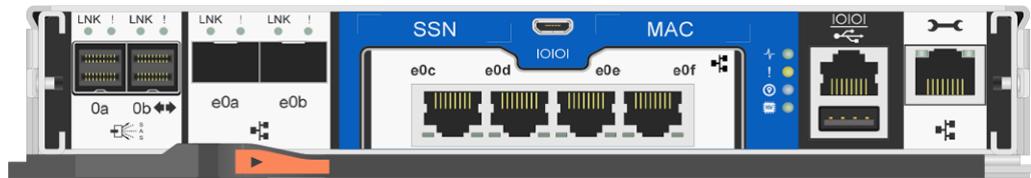
AFF C190 - Rear 10GBASE-T [HA Pair]



AFF C190 - Rear UTA2 [PCM]



AFF C190 - Rear 10GBASE-T [PCM]



Expansion Slots	SAS/SCSI Ports	Ethernet Ports	Fibre Channel Ports	HA Ports	Management Ports
PCIe → Install	MiniSAS HD	Alt Path RJ45	QSFPP+	RJ45	Miniband 4X
PCI-X	MiniSAS	LVD VHDCI	SFP28	UTA2/CNA SFP+	Remote RJ45
Mezzanine	QSFP		SFP+	SFP	Console RJ45