

# EMC CLARiiON Disk Library

## Specifications

### Disk Library Connectivity

Front-end: Four 200 MB/s FC optical ports

Back-end (CDL server to CLARiiON® disk array): Four 200 MB/s FC optical ports

Tape Ports: Four 200 MB/s optical ports

The above numbers are per server. Double them for DL720 and DL740 models (except optional tape ports, which is two per server or four per system for the DL740).

Note: The tape ports may be configured, if desired, as front-end ports.

### Back-End (Disk) Connectivity

DL710 has four 200 MB/s Fibre Channel Arbitrated Loops. The DL720 and DL740 each have eight 200 MB/s Fibre Channel Arbitrated Loops.

Multiple RAID groups are distributed across redundant loops to maximize bandwidth to disks.

### Drive Interface

Failover from each storage processor to both Fibre Channel loops is possible

	146 GB (10,000)	500 GB ATA (7,200)
Formatted Capacity		
(520 bytes/sector)	145.7 GB	500 GB
Form Factor	3.5"	3.5"
Height	1.0"	1.0"
Rotational Speed	10,000 rpm	7,200 rpm
Interface	Fibre Channel	Serial ATA
Data Buffer	32 MB	16 MB
# of Segments	Up to 16	Variable
Transfer Rates		
Buffer to/from Media	43–78 MB/s	29–64 MB/s
SP to/from Buffer	200 MB/s (max.)	150 MB/s (max.)
Access Time		
Average Seek	4.7 ms Read 5.3 ms Write	8.2 ms Read 9.2 ms Write
Rotational Latency	2.99 ms	4.17 ms



### Dimensions (approximate)\*

Model	Height	Width	Depth	Weight
DL710	17.5 in. (44.45 cm), 10 EIA units	17.5 in. (44.5 cm)	27.57 in. (70.02 cm)	281 lb. (127.7 kg) max.
DL720	22.75 in. (57.8 cm), 13 EIA units	17.5 in. (44.5 cm)	27.57 in. (70.02 cm)	301 lb. (136.8 kg) max
DL740	35.0 in. (88.90 cm), 20 EIA units	17.5 in. (44.5 cm)	27.57 in. (70.02 cm)	562 lb. (255.4 kg) max
DL310	8.75 in. (22.23 cm), 5 EIA units	17.72 in (45 cm)	23.75 in. (60.38 cm)	218 lb. (99 kg)
Rackmount ATA Disk Expansion Chassis	5.25 in. (13.33 cm), 3 EIA units	17.72 in (45.0 cm)	23.75 in. (60.38 cm)	84 lb. (38 kg) max
40U Rack Enclosure	75.0 in. (190.8 cm)	24.0 in. (61.1 cm)	36.0 in. (91.6 cm)	Empty: 300 lb. (136 kg)

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## Power\*

	DL710	DL720	DL740	DL310	ATA Disk Expansion Chassis
Frequency	47–63 Hz	47–63 Hz	47–63 Hz	47–63 Hz	47–63 Hz
AC Voltage	90–264 Vrms, single phase	90–264 Vrms, single phase	90–264 Vrms, single phase	90–264 Vrms, single phase	90–264 Vrms, single phase
Power Factor	.909 (min)	.909 (min)	.909(min)	.903 (min)	.98 (min)
Power Consumption (maximum)	1,110 VA, 1,000W	1,110 VA, 1,264W	2,220 VA, 2,000W	726 VA, 660W	300 VA, 294W
Heat Dissipation (maximum)	3,414 Btu/hour	4,315 Btu/hour	6,828 Btu/hour	2,254 Btu/hour	1,004 Btu/hour

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## AC Power Capability

40U Cabinet

Dual Inlets

NEMA L6-30P or IEC309-332 P6 or IP-57 (Australia)

200–240 VAC +/- 10%, Single Phase

47–63 Hz

4,800 VA @ 200 V; 5,760 VA @ 240 V

30A, 2-pole circuit breaker

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## Operating Environment

Temperature: 50–104 degrees F (10–40 degrees C)

Temperature Gradient: 10 degrees C/hr

Relative Humidity: 20% to 80% (non-condensing)

Altitude

8,000 ft. (2438.4 m) @ 104 degrees F (40 degrees C) max.

10,000 ft. (3048 m) @ 98.6 degrees F (37 degrees C) max.

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## Electromagnetic Emissions and Immunity

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FCC Class A

EN55022 Class A

CE Mark

VCCI Class A (for Japan)

ICES-003 Class A (for Canada)

AS/NZS, CISPR22, Class A (for Australia/New Zealand)

EN55024 Immunity, ITE

BSMI Class A (for Taiwan)

MIC (Korea)

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## Safety

UL 60950; CSA C22.2-60950; IEC 60950, TUV, GOST, IRAM

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## Quality Standard

Manufactured under an ISO 9000-registered quality system

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\*The data associated with each CLARiiON Disk Library model in the Dimensions and Power tables includes the Disk Library engine and associated CLARiiON CX array. To determine the correct weight, rack space, power consumption, and heat dissipation, each of those values must be increased based on the number of ATA disk expansion chassis included in the configuration.



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