

Recommended Hardware by Institution Size

AtlasOA is lightweight by design. SQLite handles the database, Python runs the application, and IIS serves as the reverse proxy. The table below shows sizing guidelines for three institution tiers.

Component	Small (under 500 students)	Medium (500 to 2,000 students)	Large (2,000 to 5,000 students)
CPU	2 cores, 2.0 GHz	4 cores, 2.5 GHz	4+ cores, 3.0 GHz
RAM	4 GB	8 GB	16 GB
Disk	2 GB free (SSD preferred)	10 GB free (SSD)	20 GB free (SSD)
OS	Windows Server 2019+	Windows Server 2022	Windows Server 2022
Network	100 Mbps LAN	1 Gbps LAN	1 Gbps LAN
Concurrent Users	Up to 10	Up to 25	Up to 50
Backup Storage	1 GB	5 GB	10 GB
Import Speed	~1,000 rows/sec	~2,500 rows/sec	~5,000 rows/sec

NOTES

- AtlasOA runs on an existing server if capacity is available. A dedicated server is not required for small or medium institutions.
- SQLite performance scales linearly with RAM. Right-size RAM first, then CPU.
- No GPU, Java, .NET, Docker, or Linux required.
- Disk estimates include 50-backup retention. Reduce retention to save space.
- Large institutions (5,000+ students) should contact AtlasOA LLC for sizing assistance.