

# AQ COMPUTE TEST & PILOT CAPACITIES

## Introduction to the testing capacities

Test capacities for prospective clients are set up by AQ Compute to showcase its efficient and sustainable data centre proposition with high connectivity and low latency. Additionally, prospective clients are provided with the opportunity to test water as well as air cooling solutions. In this context, it is possible to run compute capacity either on AQ Computes exclusive testing hardware, or on own hardware installed by prospective clients.

	Use of AQ Computes testing hardware	Use of prospective clients own hardware
<b>Duration of testing</b>	14 days	14 days
<b>Maximal compute capacity per account</b>	48 vCPUs, 288 GB RAM, 1536 GB SSD	Depends on installed servers, max. 15 kW/rack (air-cooled) and 60 kW/rack (water-cooled)
<b>GPU capacity</b>	up to 4x NVIDIA Tesla T4 16 GB	---
<b>Storage capacity</b>	up to 128 TB	---
<b>Internet connection</b>	2G	2G
<b>Access</b>	via test account	via network access
<b>Cost</b>	free	free

## Details - use of AQ Computes testing hardware

The test will run on a virtual SecuStack instance, which is installed on the AQ Compute testing hardware.

The testing hardware consists of:

- 6 Compute Server  
(2x Intel Xeon Silver 4208 with 8 Cores; 96GB RAM; 2x512GB SSD) - ca. 100% direct water cooled
- 1 GPU Performance Cluster  
(Intel Xeon Gold 6230 with 20 Cores; 384 GB RAM; NVMe-SSD 2x 1,6 TB; 4x NVIDIA Tesla T4 16 GB) - air cooled
- 1 Ceph Storage Cluster (128 TB) - air cooled

Compute capacity of up to 48 vCPU, 288 GB RAM, 1536GB SSD can be used with AQ Compute hardware. Furthermore, Block-Object Storage is available as well.

Testing process

1. Prospective client contacts AQ Compute via mail ([info@aq-compute.com](mailto:info@aq-compute.com))
2. Agreement on required compute capacity and other services
3. Prospective client receives test account and can use the compute capacity
4. Access ends automatically after 14 days

## Details - use of prospective clients own hardware

The test will run on own hardware from prospective clients installed by AQ Compute team at site. The servers can be water cooled as well as air cooled being any combination of both not excluded. Following conditions must be considered:

Water cooled servers:

- up to 60 kW per 19"-rack
- supply air temperature: min. 20°C, max. 30°C
- pressure resistance per server: min. 3bar / recommended: 6bar
- flow rate delivered by pumps per server: max. 400l/h
- cooling liquid provided: water antifreeze mixture (35% ethylene glycol)
- water entry temperature in servers: min. 40°C, max. 50°C
- water outlet temperature of servers: max. 65°C
- pipe connection: Parker hose coupling NSE-62; hose diameter: 16mm
- max. pressure loss within the server 100-300 mbar

Air cooled servers:

- up to 15 kW per 19"-rack
- supply air temperature: min. 20°C, max. 30°C

Contact:

AQ Compute  
Valentinskamp 70  
20355 Hamburg  
Germany

Phone: +49 40 87 5050-607  
Email: [info@aq-compute.com](mailto:info@aq-compute.com)  
Web: [www.aq-compute.com](http://www.aq-compute.com)

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