



DATASHEET

Hyper Performance Multi-GPU solution for the most advanced and resource intensive computational tasks.

- AI Researches:** Machine Learning, Deep Learning, Inference
 - Content Creation:** Editing, Design, Engineering, Architecture
 - Production:** Video, Virtual, Rendering, Animation
 - Forensics:** Password recovery
- And many more!

SELACHII™

KEY ADVANTAGES



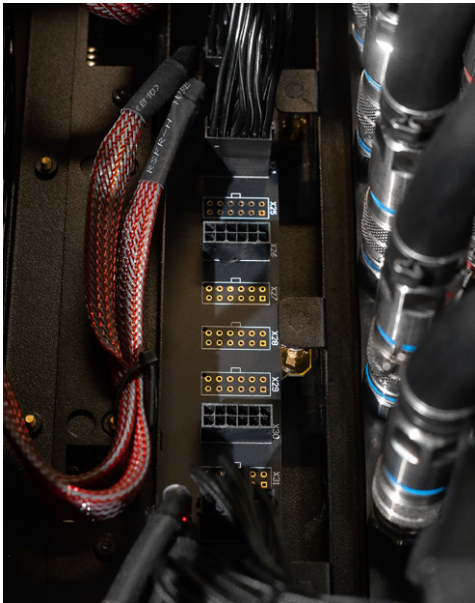
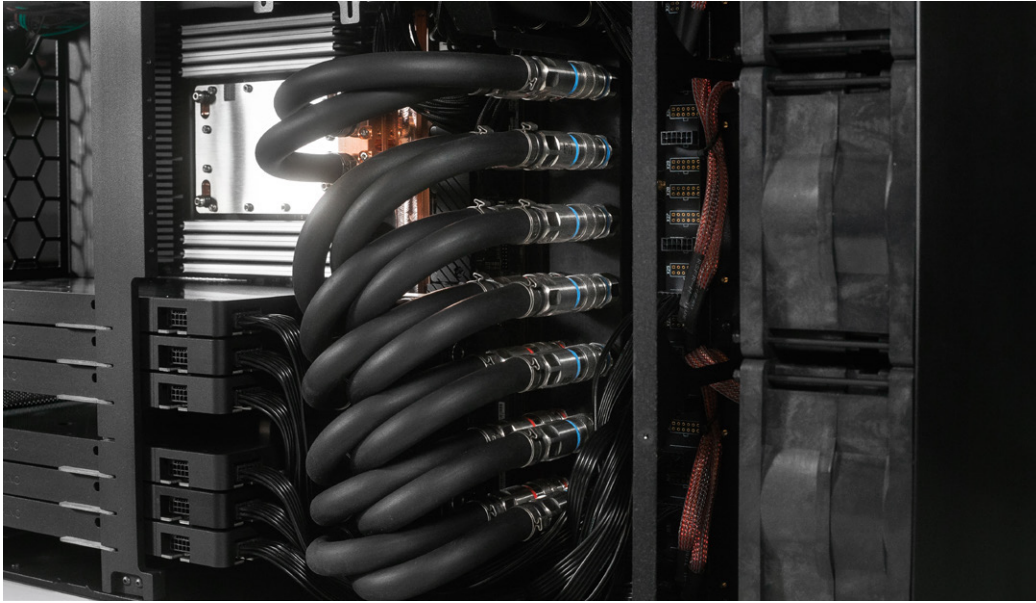
Best Multi-GPU performance for specialists, workgroups and research teams



Easy configurable, maintainable & scalable bleeding edge hardware!



Engineered for Reliable High Performance 24/7 operation in harsh environments up to 38°C / 100°F



Up to **7 GPUs & 2 CPUs**

Designed to be **used in a rack** or **put on a table**

Redundant Power supply system up to **4x 1600W**
CRPS modules (Redundancy modes: 4+0, 3+1, 2+2).

Power capacity up to 6.4kW

3x Ultra High Flow fans 6200RPM each (high noise level) or 3x 140mm 5000RPM (medium noise level)

Cooling Capacity up to 4kW

Optional installation of **up to 8 hot swap SSDs**
(SATA or NVME)



LIQUID COOLED

Selachii's liquid cooling system unleashes the full performance potential of modern top-tier GPUs and CPUs, and greatly prolongs lifespan of the hardware ensuring 24/7 operation even in harsh environments with no thermal throttling.

QUICK-DISCONNECT COUPLINGS

Quick Disconnect Couplings on each GPU and CPU allows to simplify maintaining and reduce maintenance time to increase system availability.

REMOTE MANAGEMENT

BMC chip provides intelligence for its IPMI architecture for out-of-band management to enhance hardware-level control for improved IT efficiency.

SELACHII'S MONITORING SYSTEM allows collecting cooling system logs offline to analyze device usage history, log failure events and to monitor the temperature statistics. WEB based GUI allows inspecting several devices remotely. The monitoring system increases system availability.

REDUNDANT POWER SUPPLY (CRPS)

Designed for use in critical IT infrastructure. It provides reliable power for your system without limitation. PSU's work at multi voltage 100-240VAC and 240VDC and provide N+M redundancy.



Maximum Cooling Capacity

4 000 W

Maximum cooling capacity is ensured @ 20C intake air T and "performance mode" of the cooling system

Motherboard

Up to EATX & EBB

GPUs

Up to 7; NVIDIA: 3090, 4090, RTX A6000, RTX 6000 ADA, A40, L40, L40S, A100, H100; AMD: W7800, W7900

Processors

Up to 2; Intel: Core i9, Xeon-W 2400, 3400, Xeon Scalable 4th & 5th Gen; AMD: Ryzen 7000, Threadripper PRO 5000WX, 7000WX, EPYC 7003, 9004

RAM

Up to 2TB *

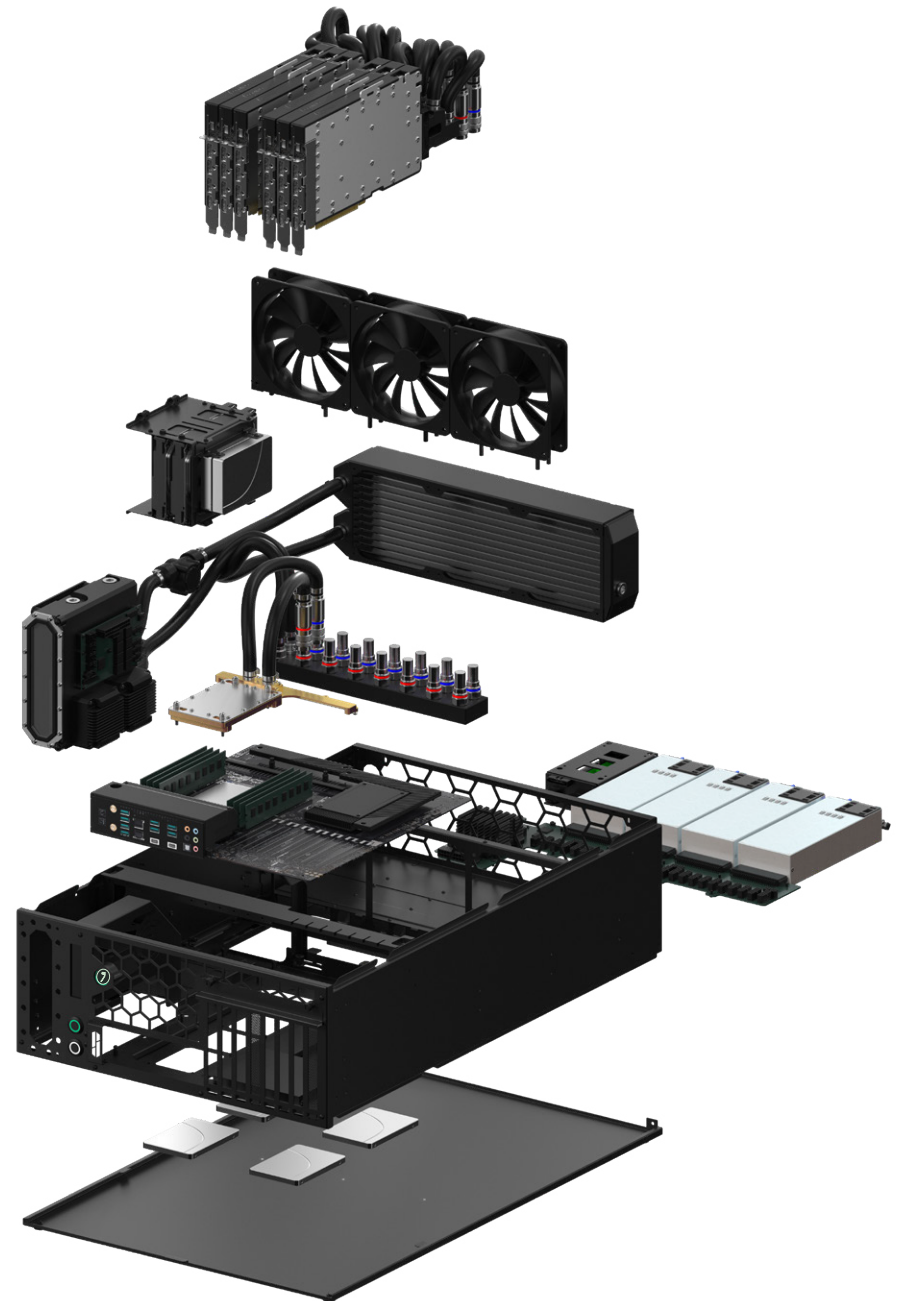
Storage

Back panel hot swap cages: up to 4x hot swap SSDs (4x 7mm or 2x 15mm) and up to 4 more (4x 7mm or 2x 15mm) instead of 4th PSU; Internal 3.5" cage up to 2x 3.5" or 2x 2.5" 15mm or 4x 2.5" 7mm; Internal 2.5" slots: up to 6x 2.5" SSD 7mm *

Power Supply System

4x 1600W CRPS modules (Redundancy modes: 4+0, 3+1, 2+2). Power capacity at 180-264V up to 6.4kW Power capacity at 90-140V up to 4kW

* - depends on the configuration, contact VSPL for clarification



3x 120mm Ultra High Flow 6200RPM fans
or 3x 140mm High Flow 5000RPM fans

Up to 2x 3.5" HDD

Cooling system
controller

GPU*

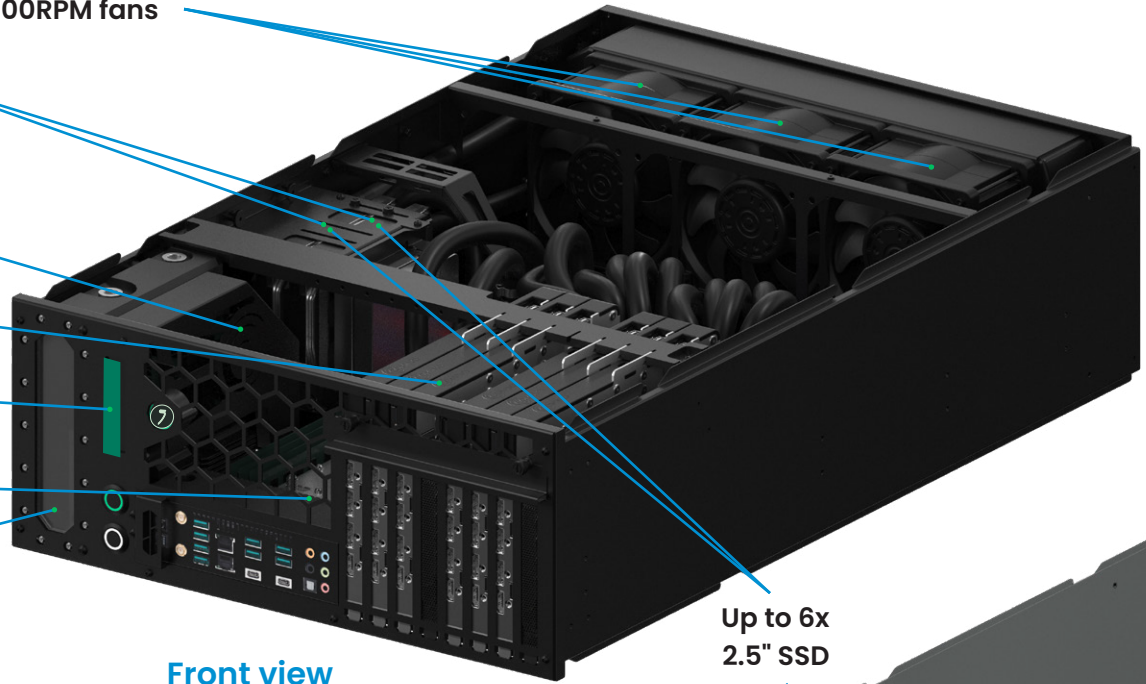
Display

CPU*

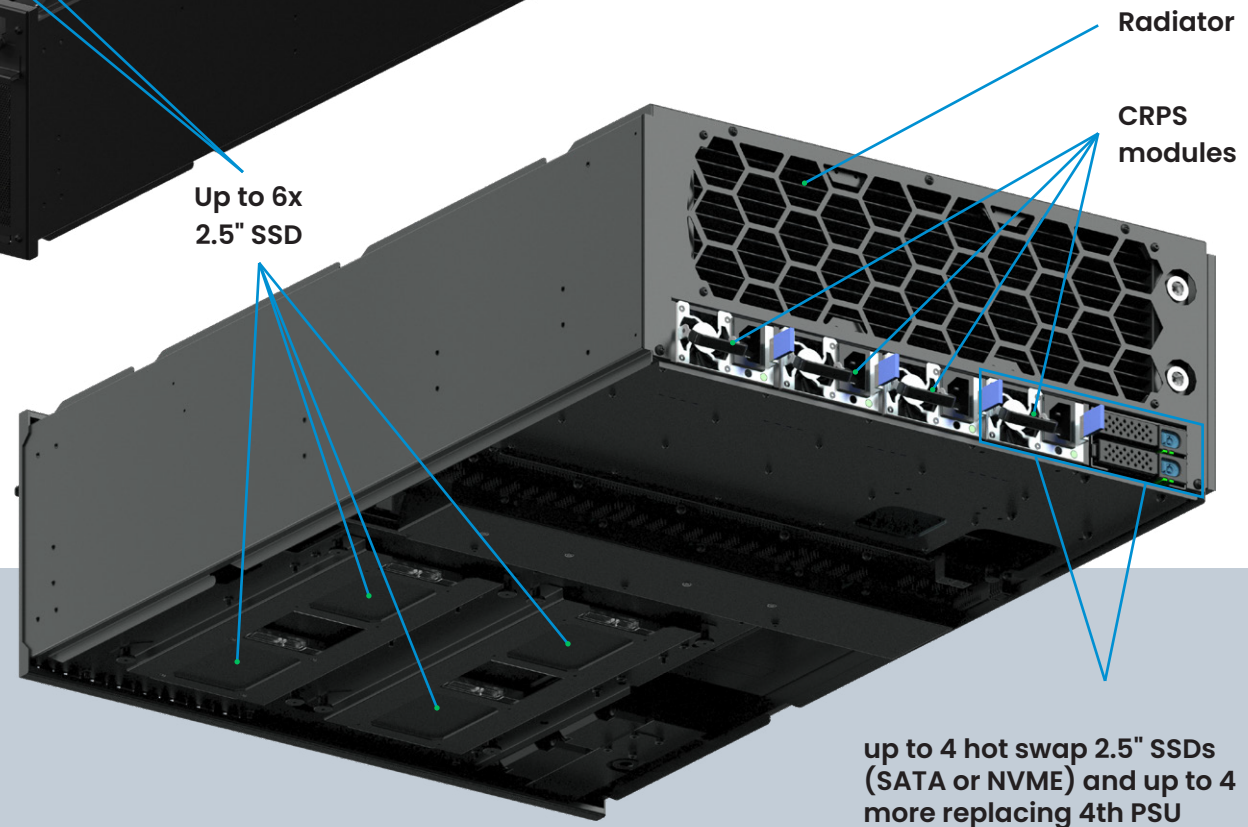
Reservoir

*Different configurations
available

Front view



Back view



Up to 6x
2.5" SSD

Radiator

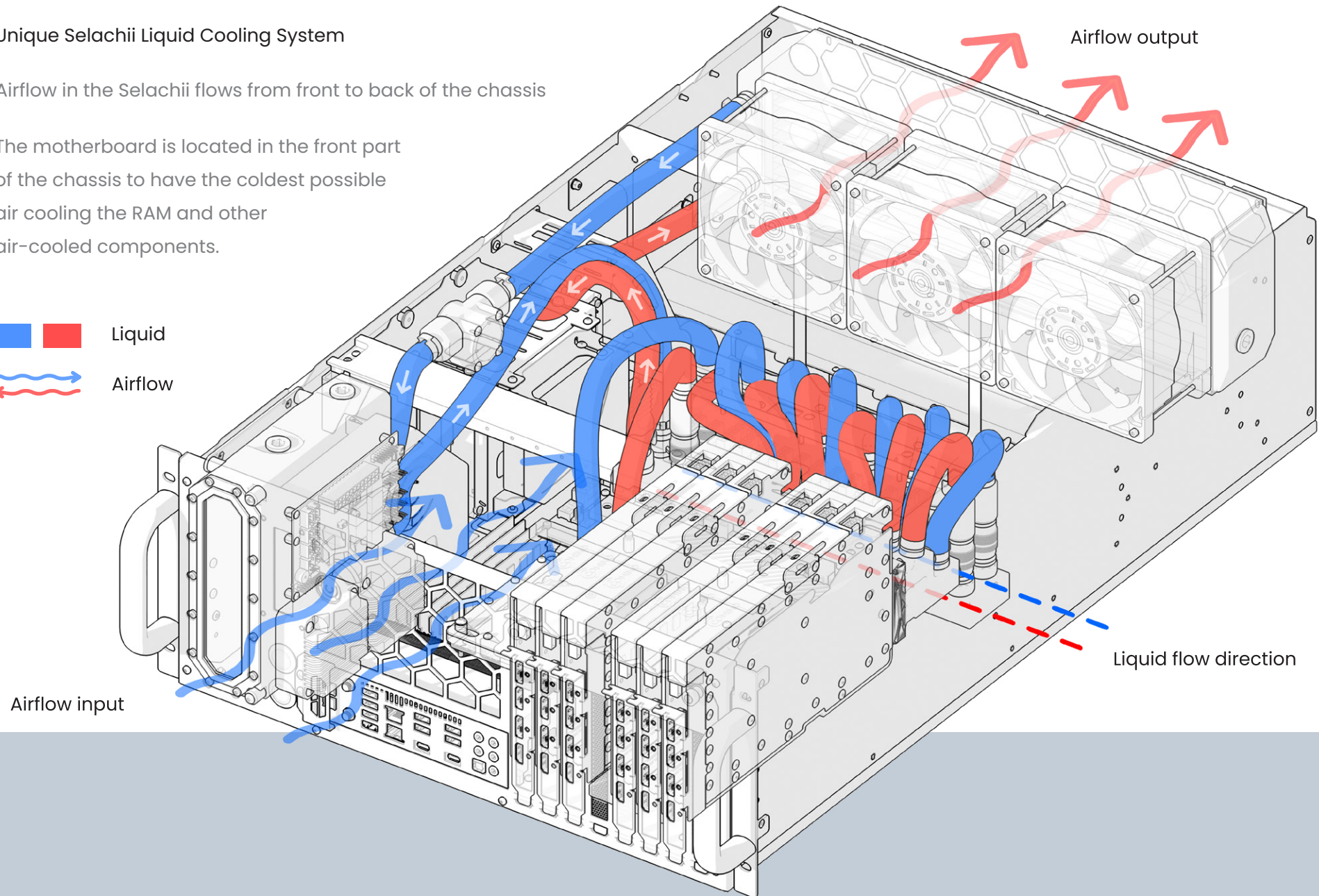
CRPS
modules

up to 4 hot swap 2.5" SSDs
(SATA or NVME) and up to 4
more replacing 4th PSU

Unique Selachii Liquid Cooling System

Airflow in the Selachii flows from front to back of the chassis

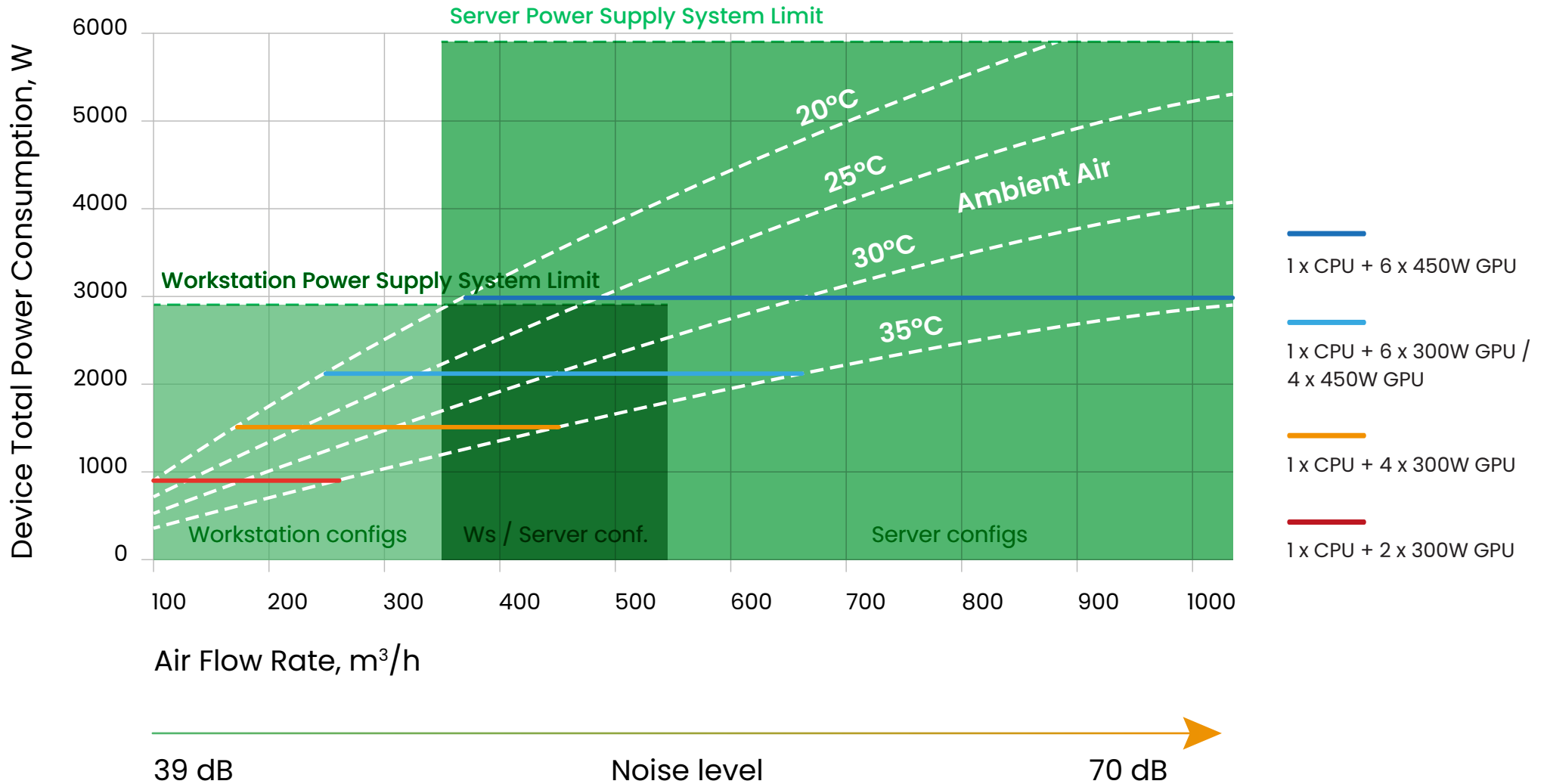
The motherboard is located in the front part of the chassis to have the coldest possible air cooling the RAM and other air-cooled components.



Airflow input

Airflow output

Liquid flow direction



All the data is a rough estimation and provided only for informational purposes, please contact VSPL for clarification.

up to 300W

- NVIDIA A100 40Gb (250W)
- NVIDIA A100 80GB (300W)
- NVIDIA RTX A6000 / A40 (300W)
- NVIDIA RTX 6000 ADA / L40 (300W)
- AMD Radeon PRO W7900 (300W)

up to 350W

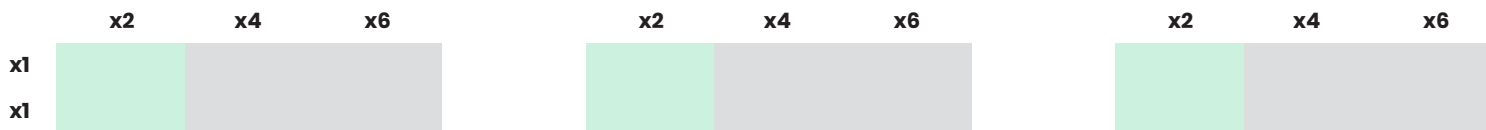
- NVIDIA H100 80Gb (350W)
- NVIDIA 3080 (320W)
- NVIDIA 3090 (350W)
- NVIDIA L40S (350W)

up to 450W

- NVIDIA 3090 Ti (450W)
- NVIDIA 4090 (450W)

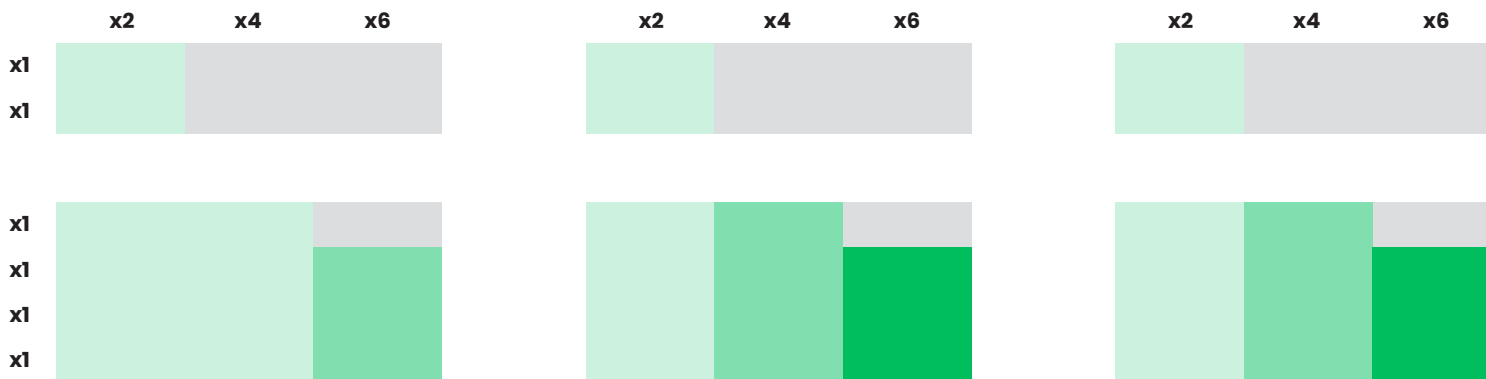
Consumer Grade

- Intel Core-i9
- AMD Ryzen



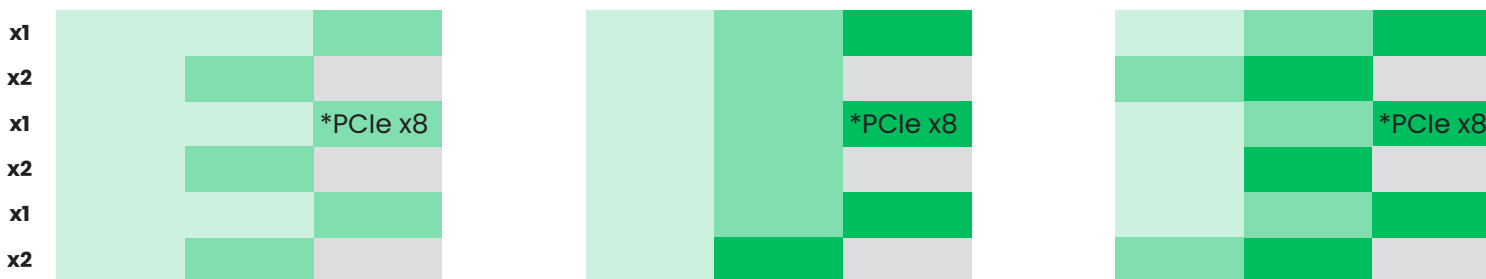
Workstation

- Intel Xeon-W 2400
- Intel Xeon-W 3400
- AMD Threadripper PRO 5000WX
- AMD Threadripper PRO 7000WX

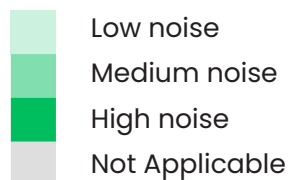


Server

- Intel Xeon Scalable 4th & 5th Gen
- AMD EPYC 7003
- AMD EPYC 9004



- Selachii Workstation
- Selachii Workstation/Server
- Selachii Server

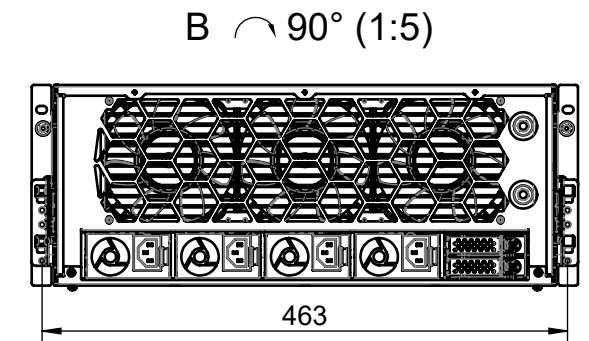
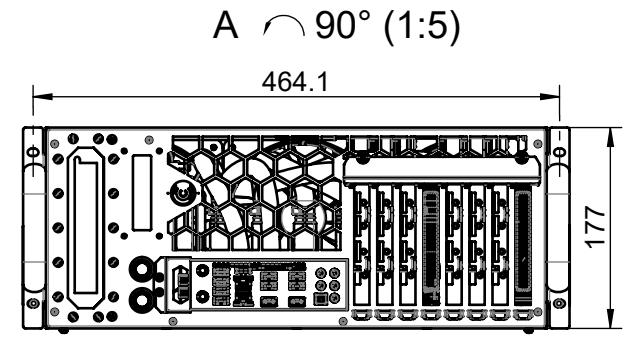
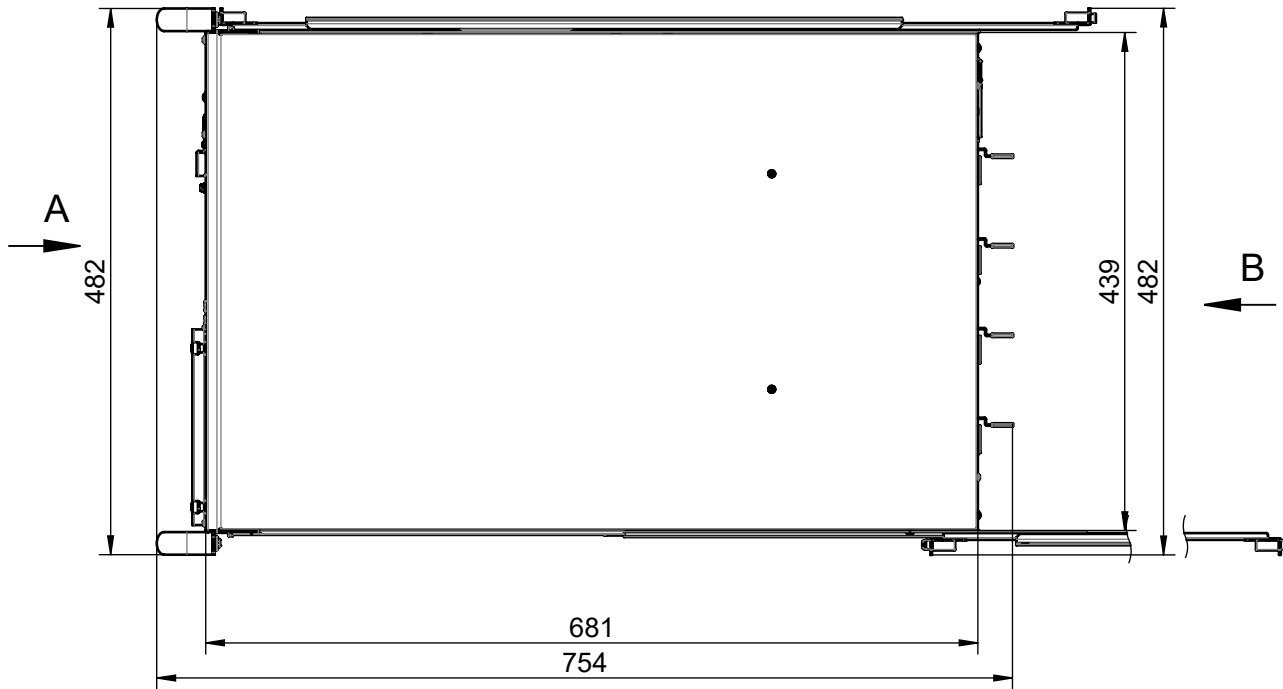
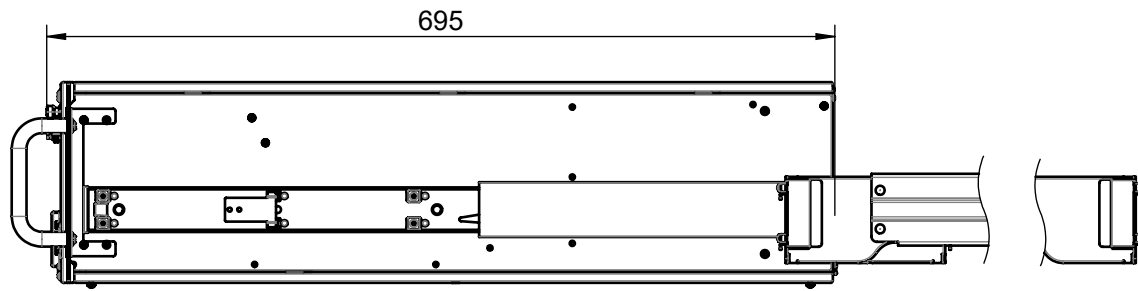


* In this configuration at least one GPU operates with decreased to PCIe x8 bandwidth

Motherboards	Up to EATX & EBB
RAM	Up to 2TB *
M2 drives	Up to 8x NVME *
	Back panel hot swap cages: up to 4x hot swap SSDs (4x 7mm or 2x 15mm) and up to 4 more (4x 7mm or 2x 15mm) instead of 4th PSU; Internal 3.5" cage up to 2x 3.5" or 2x 2.5" 15mm or 4x 2.5" 7mm; Internal 2.5" slots: up to 6x 2.5" SSD 7mm
PSU and operating voltage	Up to 4x 1600W CRPS @ 180-264V Up to 4x 1000W CRPS @ 90-140V Redundancy modes: 4+0, 3+1, 2+2
Cooling Capacity	4kW
Noise level	39dB – 70dB
Lan	Up to 2x 10 Gbit/s on the MoBo and up to 400Gbit/s in PCIe
OS	Ubuntu / Win10 (Pro/Home) / Windows Server

Liquid cooling	CPU with VRM and GPU with DDR and VRM
Reservoir	Selachii custom 450ml with integrated pumps
Pumps	2x Laing DDC 20W
Radiators	1x 120x360mm core
Fans	3x Ultra High Flow 140mm 6200RPM (high noise level) or 3x High Flow 140mm 5000RPM (medium noise level)
Installation	19" rack-mountable or standalone as a Workstation
Required rack space	4U
Size	439 x 681 x 177mm (without handles and protruding parts)
Weight	Selachii Server with 4x CRPS and 6 GPUs – 44kg (net), 70kg (gross)
Operating & storage temperature range	Storage: -5..50°C / 23..122°F Operating: 3..38°C / 38..100°F *

* - depends on the configuration, contact VSPL for clarification





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