



GRANDO
RM

DATASHEET

COMINO GRANDO SERVER & RACKABLE WORKSTATION

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!

KEY ADVANTAGES



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

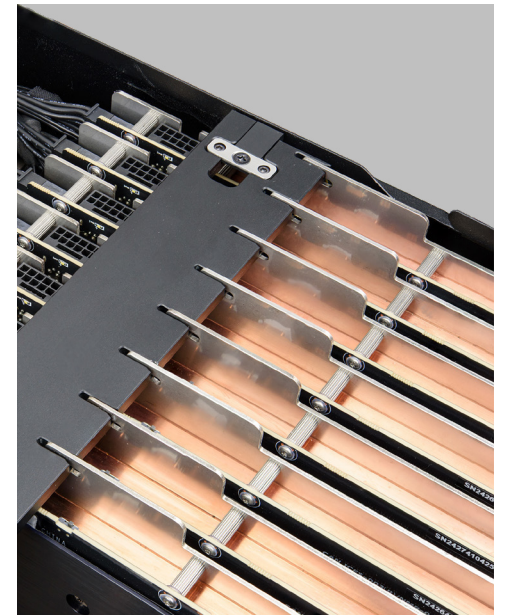
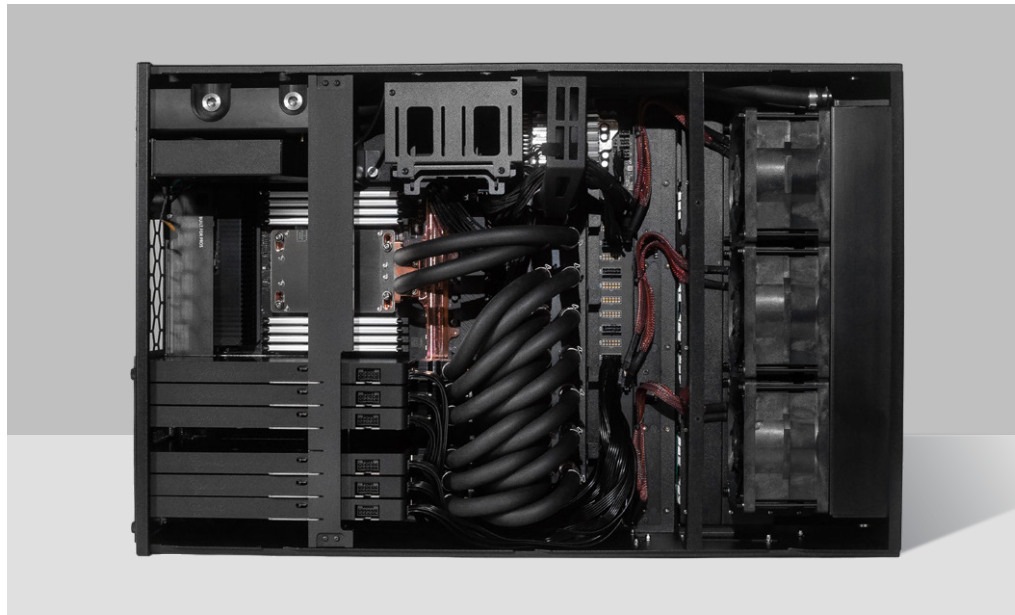
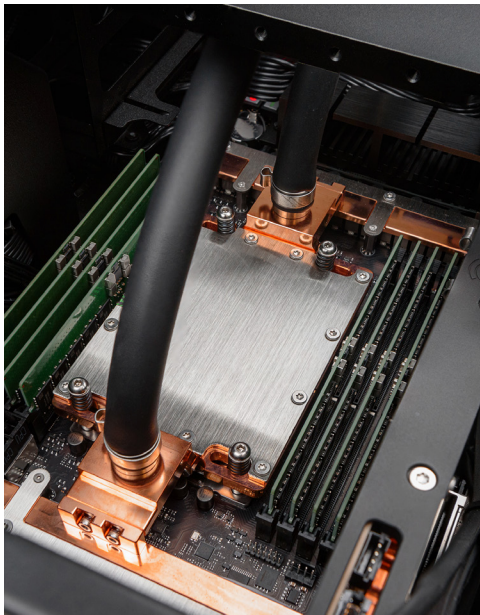


Easy configurable, maintainable & scalable bleeding edge hardware!



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





Up to **8 GPUs & 2 CPUs**

Engineered for versatile deployment, whether **mounted in a rack** or **placed on a table**

Redundant Power supply system up to **4x 2000W** hot-swap CRPS modules (Redundancy modes: 4+0, 3+1, 2+2). **Power capacity up to 8.0kW**

3x Ultra High Flow fans 6200RPM each (high noise level) or 3x 140mm 3000RPM (low noise level)

Cooling Capacity up to 6.5kW

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



BUILT AROUND LIQUID COOLED

Comino's approach in GRANDO cooling design fully eliminates thermal throttling and unleashes the full performance potential of modern top-tier GPUs and CPUs, allows to prolong lifespan of the hardware and ensures stable 24/7 operation even in harsh environment. At the same time increases efficiency & drops PUE by reducing the overall power draw of the system thus improving ROI.

EASY MAINTENANCE

Modular approach in design and Quick Disconnect Couplings (Comino TheQ) on each GPU and CPU allow to simplify maintaining and reduce service time to increase system availability. There is no need in engineer with special skills, GRANDO systems are as easy to maintain as an air-cooled system and are built to provide up to 3 years interservice maintenance period.

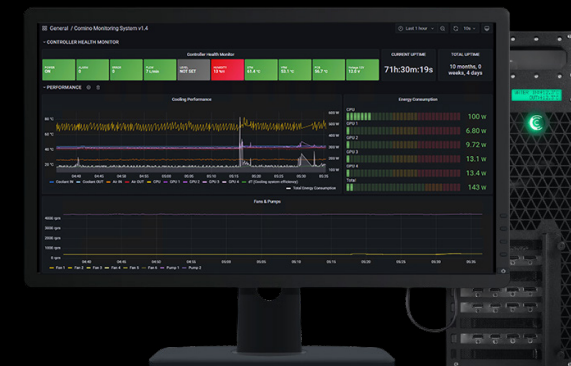
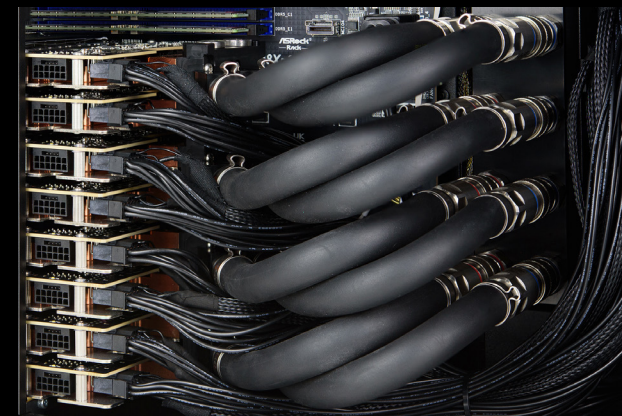
REMOTE MANAGEMENT

GRANDO systems come equipped with an IPMI interface for seamless remote management. Enjoy features like remote KVM access, OS installation, and comprehensive server monitoring. Ensure peak performance and minimal downtime anytime, anywhere.

COMINO'S MONITORING SYSTEM allows to collect cooling system log offline to analyze device usage history, log failure events and to monitor the temperature statistic. WEB based GUI allows to inspect several devices remotely. The monitoring system increases system availability.

HOT SWAP REDUNDANT POWER SUPPLY (CRPS)

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



Maximum Cooling Capacity **6 500 W**
Maximum cooling capacity is ensured @ 20°C intake air T and "performance mode" of the cooling system

Motherboard **Up to EATX & EBB**

GPUs **Server: up to 8;**
NVIDIA: RTX A6000, RTX 6000 ADA, RTX PRO 6000, A40, L40, L40S, A100, H100, H200
Rackable Workstation: up to 6;
NVIDIA: 3090, 4090, 5080, 5090, RTX A6000, RTX 6000 ADA, RTX PRO 6000, A40, L40, L40S, A100, H100, H200;
AMD: W7800, W7900

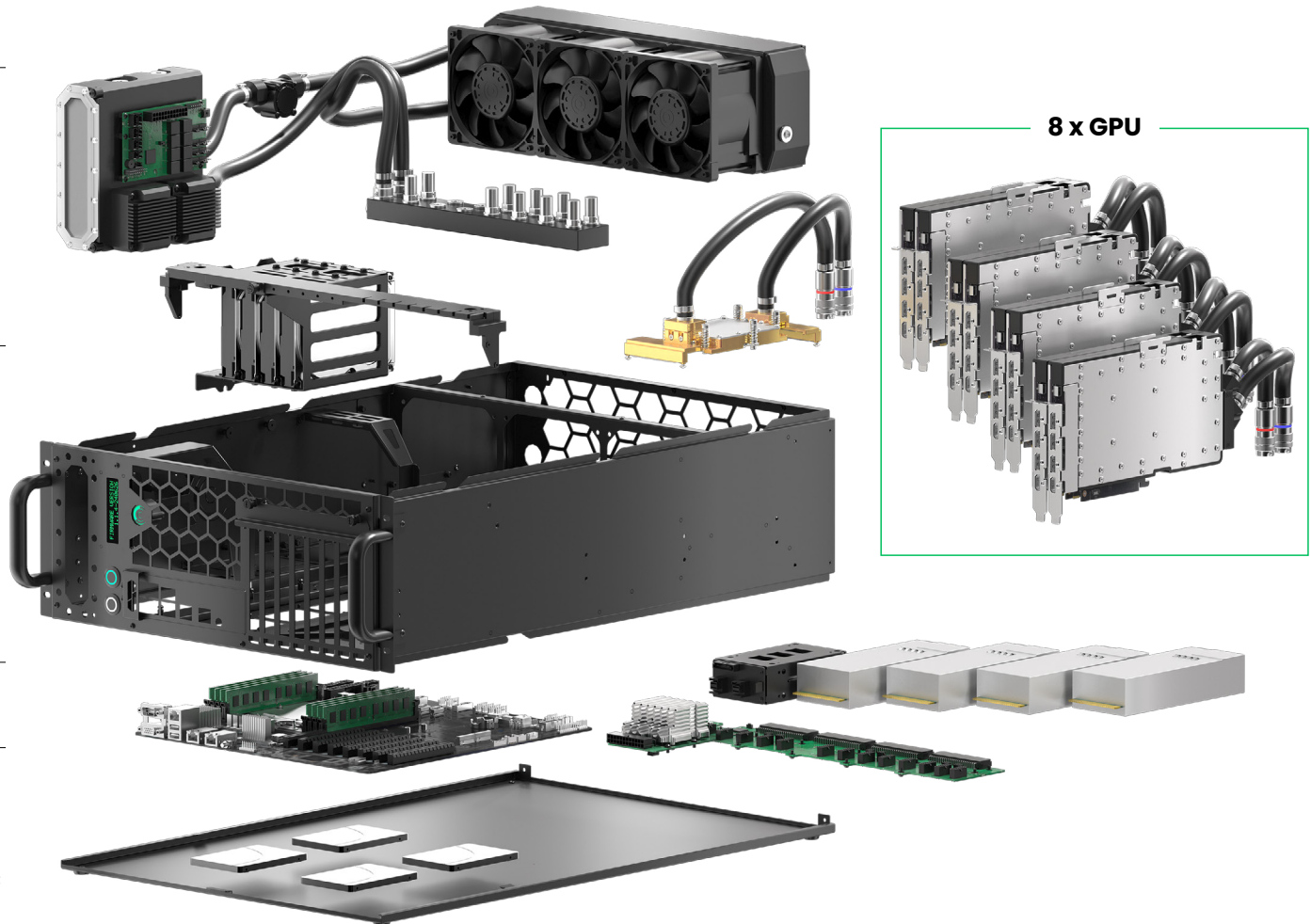
CPUs **Up to 2;**
Single Socket:
Intel Xeon W-2400/2500 & 3400/3500
Intel Xeon Scalable 4th Gen, 5th Gen, XEON 6
AMD Threadripper PRO 5000WX, 7000WX, 9000WX
AMD EPYC 9004 / 9005

Dual Socket:
Intel Xeon Scalable 4th Gen, & 5th Gen, XEON 6
AMD EPYC 9004 / 9005

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 4x 3.5" or 4x 2.5" 15mm or 12x 2.5" 7mm;
Internal 2.5" slots: up to 4x 2.5" SSD 7mm *

Power Supply System **4x 2000W Hot Swap CRPS modules**
(Redundancy modes: 4+0, 3+1, 2+2). Power capacity at 180-264V up to 8.0kW. Power capacity at 90-140V up to 4kW



* Varies based on the configuration. Reach out to the Comino team for more details.

3x 120mm Ultra High Flow 6200RPM fans
or 3x 140mm Normal Flow 3000RPM fans

Up to 4x 3.5" HDD

Cooling system controller

Up to 8 GPUs*

Reservoir

Display

Up to 2 CPUs*

Front view

Back view

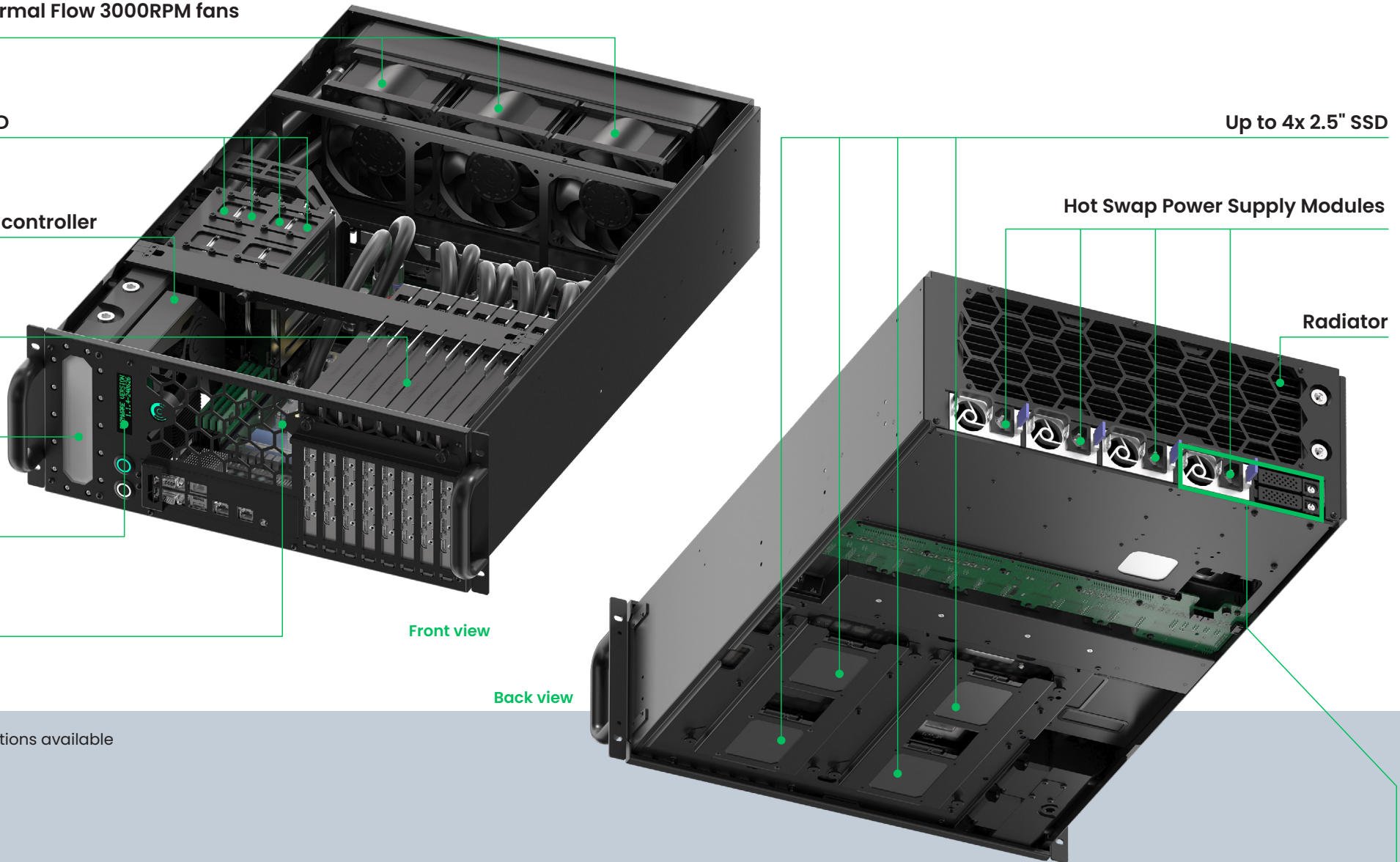
Up to 4x 2.5" SSD

Hot Swap Power Supply Modules

Radiator

* Different configurations available

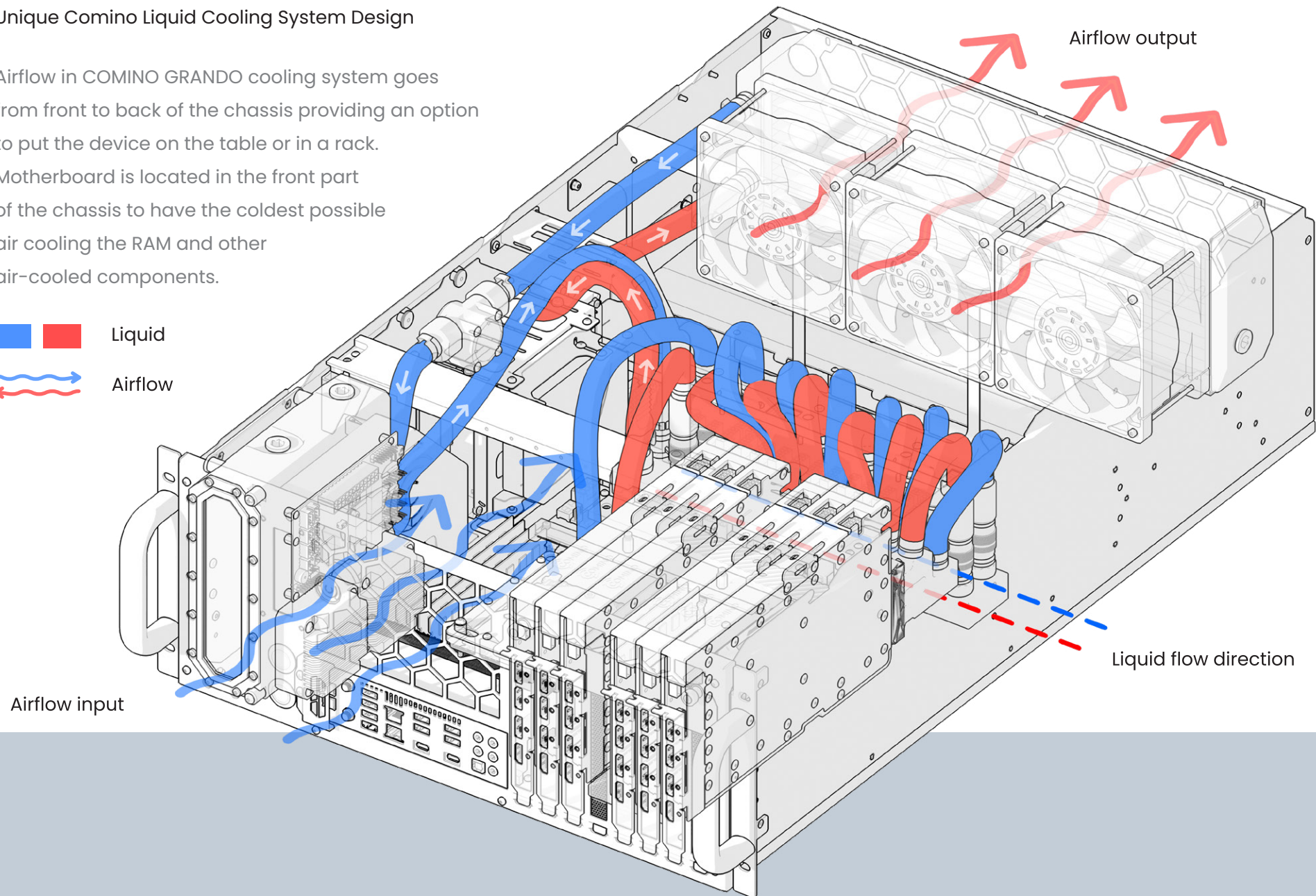
up to 4 hot swap 2.5" SSDs (SATA or NVME)
and up to 4 more replacing 4th PSU

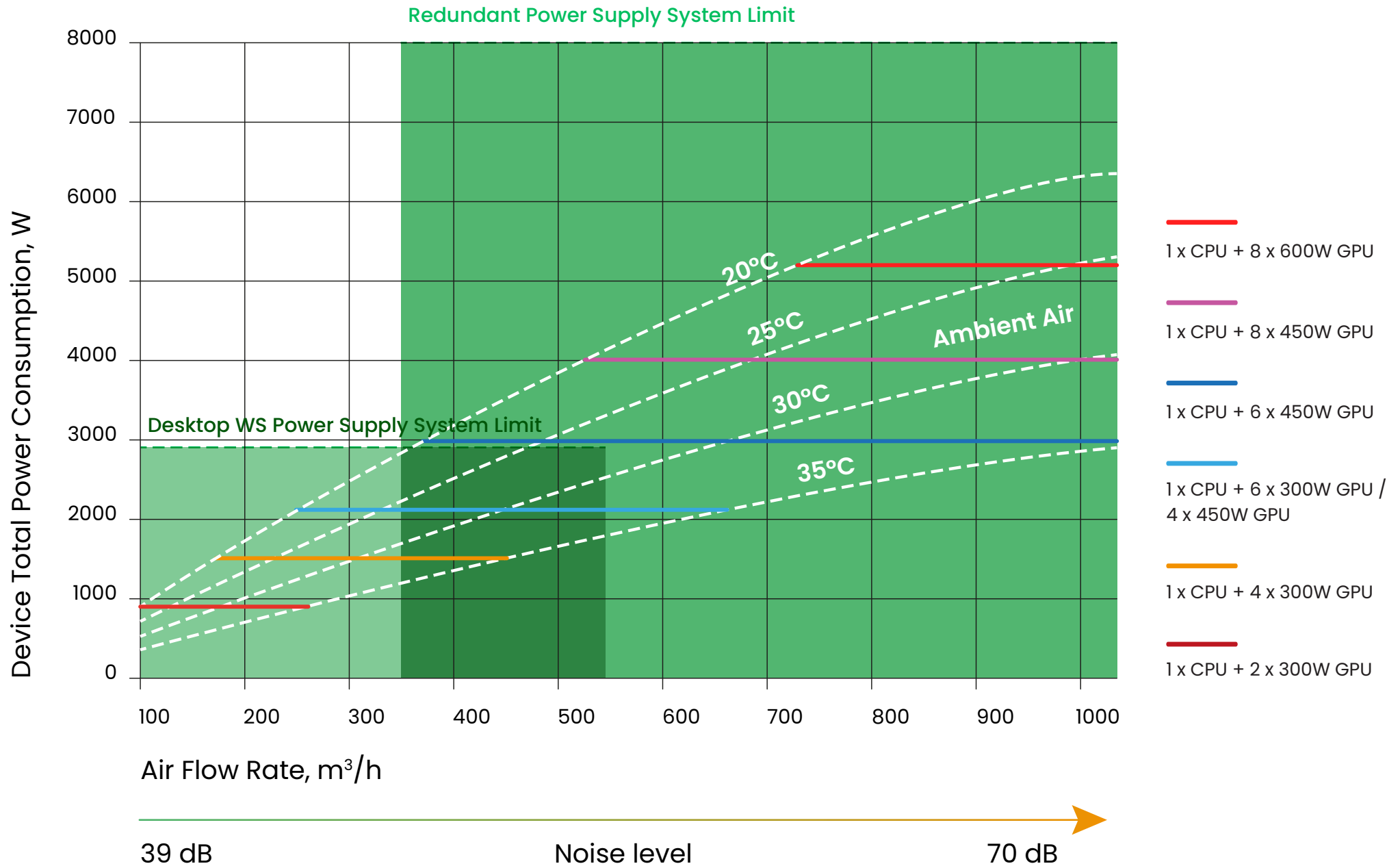


Unique Comino Liquid Cooling System Design

Airflow in COMINO GRANDO cooling system goes from front to back of the chassis providing an option to put the device on the table or in a rack.

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





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

GPU TDP & Quantity per System

250W – 300W

300W – 400W

400W – 500W

500W – 600W

Workstation CPUs

AMD Threadripper PRO 5000WX

AMD Threadripper PRO 7000WX

Intel Xeon-W 2400

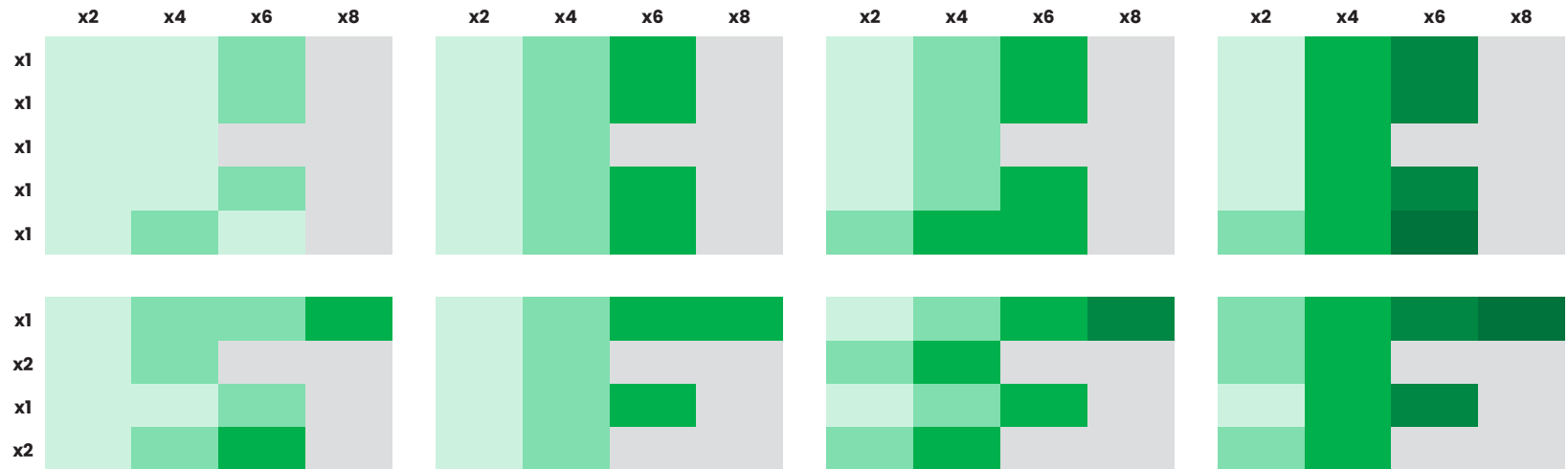
Intel Xeon-W 3400

W3400 & 7000WX O/C

Server CPUs

AMD EPYC 9004

Intel Xeon Scalable 4th & 5th Gen



GRANDO DESKTOP WORKSTATION

GRANDO DESKTOP WORKSTATION & RACKABLE WORKSTATION

GRANDO RACKABLE WORKSTATION & SERVER

GRANDO RACKABLE WORKSTATION & SERVER

GRANDO SERVER



Low noise

Medium noise

High noise, up to 35-40°C / 95-104°F ambient temperature

High noise, up to 25-30°C / 77-86°F ambient temperature

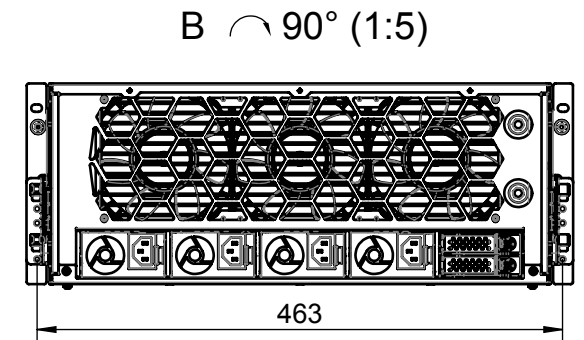
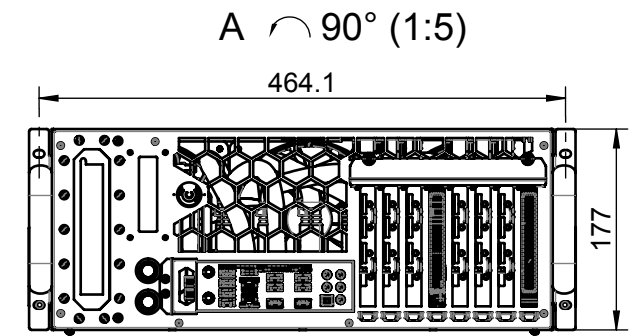
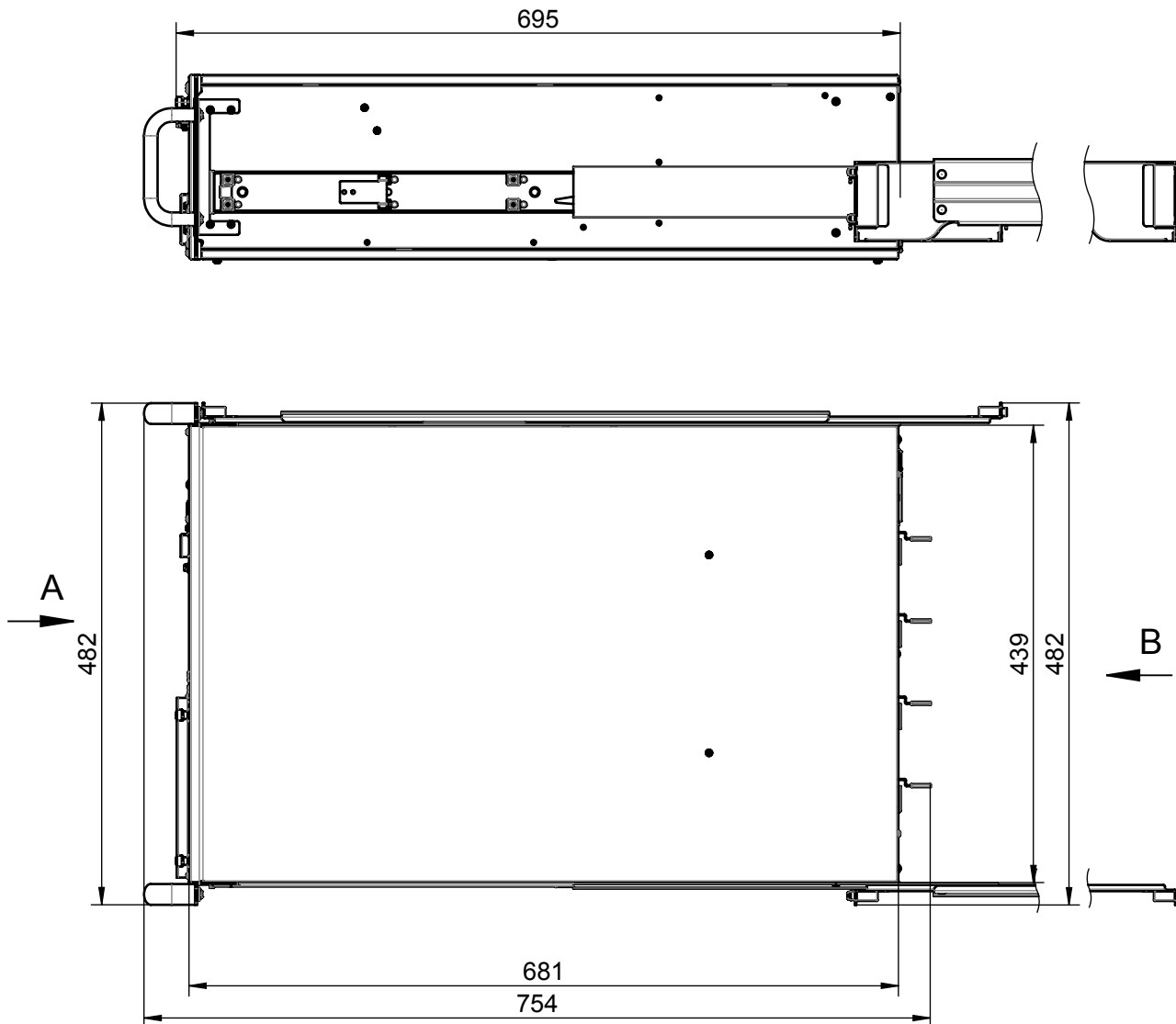
High noise, up to 15-20°C / 59-68°F ambient temperature

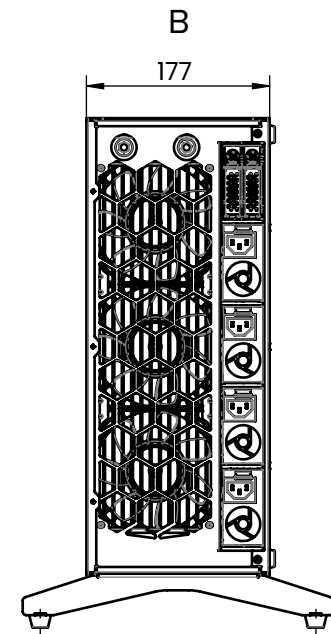
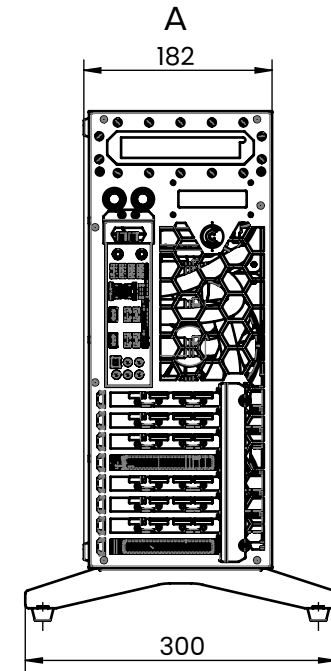
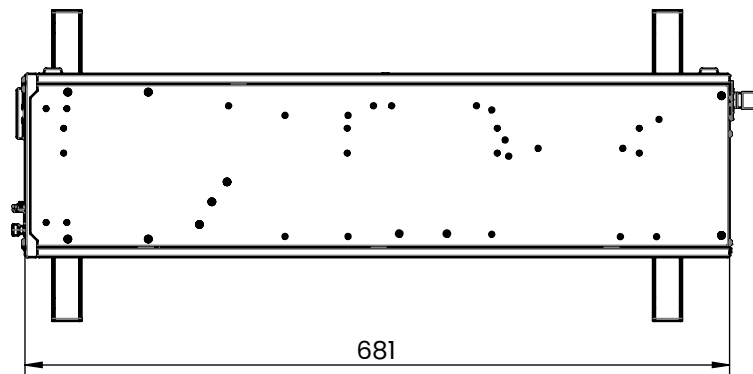
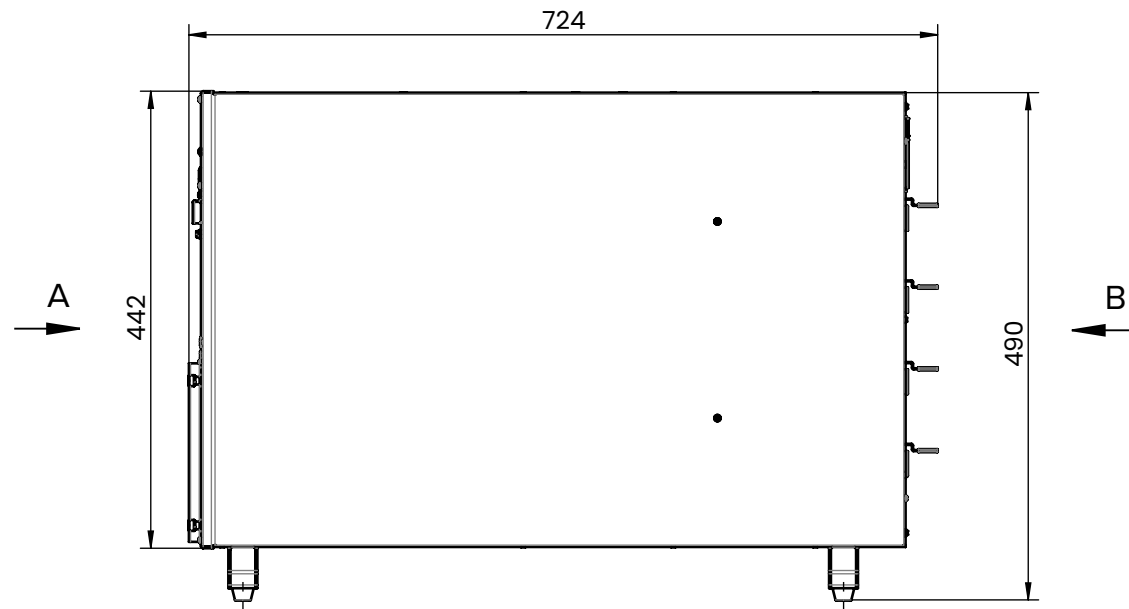
Not presented

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 4x 3.5" or 4x2.5" 15mm or 12x 2.5" 7mm; Internal 2.5" slots: up to 4x 2.5" SSD 7mm *
PSU and operating voltage	Up to 4x 2000W Hot Swap CRPS @ 180-264V Up to 4x 1000W Hot Swap CRPS @ 90-140V Redundancy modes: 4+0, 3+1, 2+2
Cooling Capacity	6.5kW
Noise level	39dB - 70dB
Lan	Up to 2x 10 Gbit/s on the MoBo and up to 400Gbit/s in PCIe
OS	Ubuntu / Windows 11 (Pro/Home) / Windows Server

Liquid cooling	CPU with VRM and GPU with GDDR and VRM
Reservoir	Comino custom 450ml with integrated pumps
Fans	3x Ultra High Flow 6200RPM (high noise level) or 3x High Flow 3000RPM (low 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	Comino Grando Server or Rackable Workstation with 4 GPUs — 49kg (net), 67kg (gross) 6 GPUs — 52kg (net), 70kg (gross) 8 GPUs — 55kg (net), 72kg (gross)
Operating & storage temperature range	Storage: -5..50°C / 23..122°F Operating: 3..38°C / 38..100°F *

* Varies based on the configuration. Reach out to the Comino team for more details.



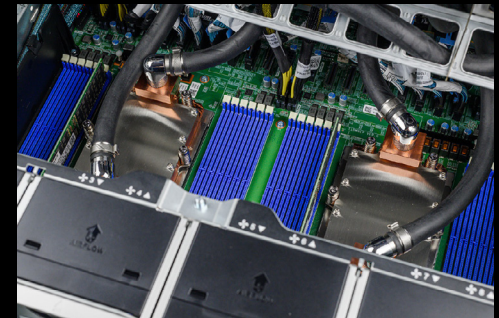


Comino integration kit upgrades any Multi-GPU air-cooled server with a liquid-cooling system, boosting performance up to 30%, lowering facility total power consumption up to 40% and providing the capability to operate in harsh environment up to +40°C/104°F with no thermal throttling.

Upgraded server could be connected to Comino InRack Drycooler or to an external cooling system via CDU (Cooling Distribution Unit).

Relevant server configurations

- DUAL EPYC or XEON / 8x NVIDIA H200 / 2TB RAM / 2TB NVME
- DUAL EPYC or XEON / 8x NVIDIA H100 / 2TB RAM / 2TB NVME
- DUAL EPYC or XEON / 8x NVIDIA RTX PRO 6000 / 2TB RAM / 2TB NVME





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