AMOR GROUP
MISSION CRITICAL INFRASTRUCTURE

300 kW Full-Liquid AI Rack Emulator

Rack-scale liquid thermal emulation for high-density AI data-centre commissioning.

LIQUID LOAD	ARCHITECTURE	VOLTAGE	RESOLUTION
300 kW	Full Liquid	380–480 V	1 kW

Validate the liquid-cooling chain before compute goes live

- Create controlled rack-scale liquid heat load without depending on production servers.
- Exercise CDU capacity, branch flow, pressure and temperature response in staged demand conditions.
- Support extended loading, redundancy checks and recovery scenarios under the project commissioning plan.
- Apply repeatable electrical demand to validate upstream rack power and distribution interfaces.

REQUEST A PROJECT REVIEW | 604-267-1677 | info@amorenergy.ca | www.amorgroup.ca | Vancouver, BC, Canada

REV 01 | AUG 2026

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TECHNICAL SPECIFICATIONS

Rated power	300 kW
Cooling architecture	Full liquid
Rated voltage	AC 380 / 400 / 415 / 480 V
Loading resolution	1 kW
Reference dimensions	600 × 1300 × 2300 mm
Power factor	1.0 resistive load
Control	Local touchscreen; remote control optional
Monitoring	Voltage, current, active power, frequency, liquid-side temperature, flow and pressure functions
Protection	Over-voltage, over-current, over-temperature, overload, low-flow, high-temperature and leak protection
Environment	+5°C to +50°C; RH ≤ 90%; altitude ≤ 1500 m
Enclosure	IP20 indoor

Product appearance and interfaces may vary by project. Connectors, hoses, controls, documentation and application notes are finalized to suit the approved commissioning plan.

COMMISSIONING APPLICATIONS

- Direct-to-chip cooling validation
- CDU + secondary-loop testing
- AI rack heat-load testing
- Facility thermal response
- Functional / integrated test support

AMOR PROJECT DELIVERY SUPPORT

CONFIGURE
Project requirements + equipment selection

MOBILIZE
Delivery + temporary interface coordination

SUPPORT
Setup + operation + troubleshooting

INTEGRATE
Work under the approved project test plan

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