RACK - LEVEL LOADBANK

In order to meet the national requirements for energy conservation and emission reduction, Envicool has launched liquid cooling solutions for data centers, network rooms, banks, industry, communications, transportation and scientific research institutes. These liquid cooling solutions need to be tested and verified before delivery. Liquid cooling heat load is an essential key equipment for this test.

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Working Principle

The liquid-cooled resistive loadbank system uses a liquid-cooled power consumption module as the core to achieve real-time monitoring and protection of the entire load. When the system is working, the power is added or subtracted by adjusting the on-and-off of the MCB. The test cable adopts the back aviation plug input method, and the equipment circulation pipeline adopts the back sanitary flange connection entry and exit method.

- Future Proof Expansion
- Plug N' Use
- Modularized Design
- Accurate Sensors
- GB 200 Heat Sim
- ORV3 Rack Compatible

Model	LCB12-A	LCB20-L	LCB24-L
Rated Power	12kW	20kW	24kW
Gear Design	1kW, 1.5kW, 2kW, 2.5kW, 5kW	0.5kW, 0.5kW, 2kW, 2kW, 5kW, 10kW	Channel A: 1kW, 2kW, 2kW, 3kW Channel B: 1kW, 2kW, 2kW, 3kW Channel C: 1kW, 2kW, 2kW, 3kW
Emergency Stop	Manual one-button forced unloading is available; loading is not allowed in the emergency stop locked state, and an audible and visual alarm is triggered.		
Circuit Protection	Branch circuits are equipped with miniature circuit breakers, which provide tripping protection in the event of a short circuit.		
Temperature Protection	When the temperature of the liquid cooling module, resistor chamber, or control chamber exceeds the safety threshold, automatic gradual unloading occurs, and an alarm is triggered; unloading time can be set.		
Ground Protection	The load input port is connected to the chassis with a ground wire, and the chassis body has a grounding terminal for user grounding.		
Flow Resistance Simulation	Built-in ball valve that can be manually adjusted to simulate different flow resistance across each node within the server rack.		