

SL Series Server Rack Heater

Up to 20 kW 240 VAC 1-Phase

Precision Heat Generation for Server Racks

Load Banks Direct, LLC is a leading manufacturer of high-capacity Load Banks. The SL Server Rack Heater Series is part of the dedicated line of load banks designed for data center commissioning.

During data center design and construction, it is critical to test the HVAC cooling systems and the hot-aisle / cold-aisle design. The SL20 is a 19" rack mountable air heater that simulates the heat generated by a server. With adjustable load steps to 20 KW and variable airflow speed control, the SL20 can accurately mimic the different low and high power density servers available today.



SL20 20kW/240VAC Server Rack Heater

Designed for Data Center Commissioning

Data center commissioning is an extremely important step in ensuring a new data center's quality and reliability. When done properly, commissioning improves system performance throughout the life-cycle of the data center. The SL Series server rack heaters are a valuable tool in validating infrastructure components.

What is Commissioning?

According to the American Society for Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), commissioning is the "quality-oriented process for achieving, evaluating and documenting that the performance of buildings, systems and assemblies meets defined objectives and criteria."

Main Features:

- Specifically designed for mounting in a 19" server rack. The 43 pound lightweight design allows for easy handling by one person.
- A minimum resolution of 500 Watts allows for precise testing. Thermal load steps start at 1.5 KW.
- 10U high (17.5") with convenient locating pins and quarter turn locking tabs.
- Force air-cooled, rated for continuous operation.
- Standard C20 plugs for connection to power distribution bus.
- Digital multimeter displays voltage, current and frequency.
- Local operator controls include individual lighted load steps, fan speed control and indicator lights for fan-on and over-temperature.
- Variable air speed control allows for precision thermal testing and delta-T adjustments.

Standard Sizes: 9kW, 20kW



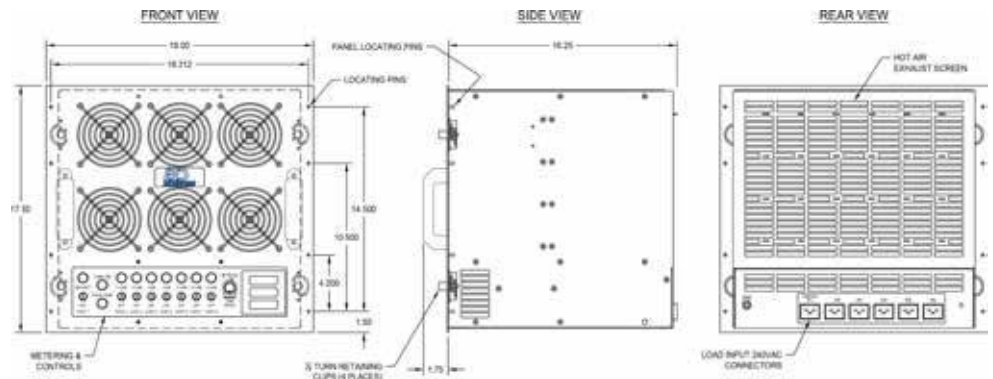
SL9 with Optional Travel Case

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Operator Protection <ul style="list-style-type: none"> Over-temperature protection Internal fuse protection of channel heater circuits 	Cooling & Airflow There are six high speed cooling fans that exhaust the hot air out the rear of the enclosure. The variable speed control produces approximately 375 - 1584 CFM.
LBD-SL™ Load Elements The SL heater elements are designed specifically for the server rack application and variable cooling airflow. Changes in resistance are minimized by maintaining conservative resistor designs.	



The SL Series Rack Heaters have a rugged aluminum and galvanized construction with convenient handles for sliding the heater in and out of the rack. Dimensions are (10U) 17.5"H x 16.25"D x 19"W (for standard 19" server rack).

SL20 Thermal Ratings Per Channel			
Channel	240VAC	230VAC	208VAC
P1	S1: 500W S2: 1.5kW S3: 1.5kW	S1: 500W S2: 1.4kW S3: 1.13kW	S1: 500W S2: 1.4kW S3: 1.13kW
P2	S4: 3kW	S4: 2.76kW	S4: 2.25kW
P3	S5: 3kW	S5: 2.76kW	S5: 2.25kW
P4	S6: 3.5kW	S6: 3.2kW	S6: 2.63kW
P5	S7: 3.5kW	S7: 3.2kW	S7: 2.63kW
P6	S8: 3.5kW	S8: 3.2kW	S8: 2.63kW

Operator Controls

- Illuminated main power on switch
- Illuminated thermal step switches
- Fan speed control
- Indicator lights for fan-on and over-temperature
- Digital multimeter displaying voltage, current and KW or frequency

