

# SL SERIES SERVER RACK HEATER

UP TO 20 KW · 240 VAC · 1-PHASE



## PRECISION HEAT GENERATION FOR SERVER RACKS

Trystar 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.

## 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.

### 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.



SL20 20kW/240VAC Server Rack Heater

## 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."



SL9 with Optional Travel Case

Standard Sizes: 9kW, 20kW

# SL SERIES SERVER RACK HEATER

## FEATURES AND OPTIONS



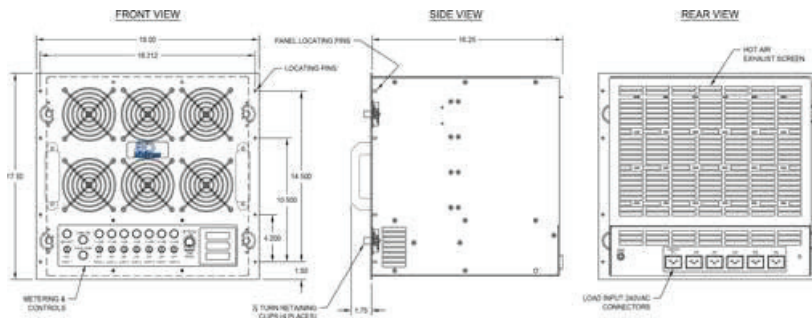
### OPERATOR PROTECTION COOLING & AIRFLOW

- Over-temperature protection
- Internal fuse protection of channel heater circuits

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.

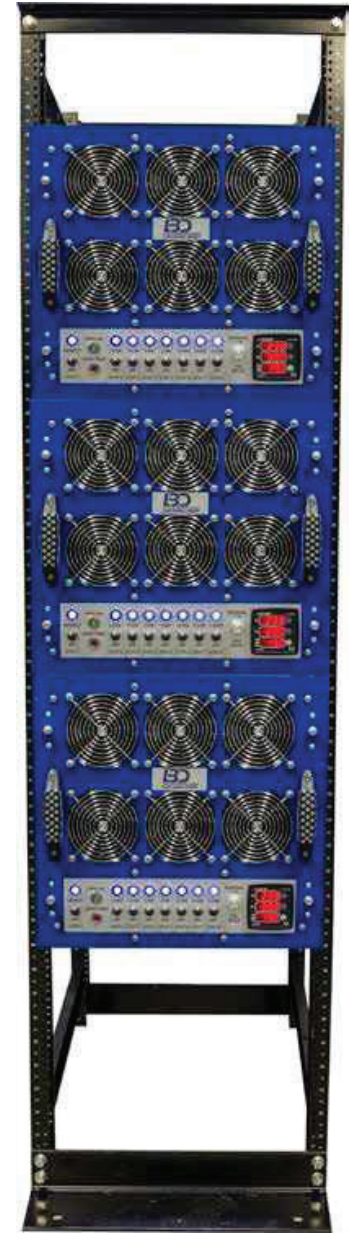
### LBD-SL™ LOAD ELEMENTS

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.



Channel	240VAC	230VAC	208VAC
<b>P1</b>	SA: 500W S2: 1.5kW S3: 1.5kW	S1: 500W S2: 1.4kW S3: 1.13kW	S1: 500W S2: 1.4kW S3: 1.13kW
<b>P2</b>	S4: 3kW	S4: 2.76kW	S4: 2.25kW
<b>P3</b>	S5: 3kW	S5: 2.76kW	S5: 2.25kW
<b>P4</b>	S6: 3.5kW	S6: 3.2kW	S6: 2.63kW
<b>P5</b>	S7: 3.5kW	S7: 3.2kW	S7: 2.63kW
<b>P6</b>	S8: 3.5kW	S8: 3.2kW	S8: 2.63kW

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).



### 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

