

Heat Load 10U Dummy Server & 40U Dummy Rack

Introduction



Design & Manufacture

Long Win Science & Technology Corporation

No. 7, Shih 2nd Road, Youth Industrial Park, Yangmei, Taoyuan County, 32657 Taiwan.

Tel: 886-3-464-3221 Fax: 886-3-496-1307

Web Site: http://www.longwin.com E-mail: longwin@longwin.com 1 40U dummy rack consists of 4 sets of 10U dummy server and a rack which is 42U in height. Here are 3 racks in one row.



2 10U Chassis with guide track, which can be insta<mark>lled in a standard rack.</mark>
Here is a 10U dummy server installed on a 24U rack.







- In a 10U dummy server, 5 sets of 800W heating unit are installed
 - 3.1 Each heating unit consists of heaters and fins
 - 3.2 Each heating unit can be modified its heating power, which resolution is 100W.
 - 3.3 Input power: AC220V, single phase, which is modulated by SCR (25A) PWM.

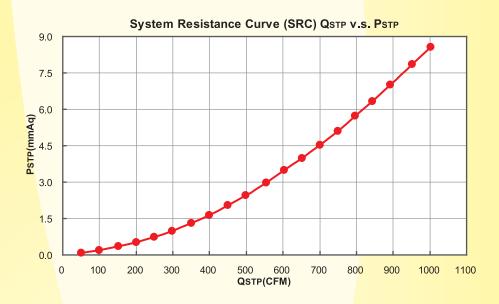


- In a 10U dummy server, there are 4~6 fans in the inlet and their RPM are controlled by 1 set of PWM meter.
 - 4.1 Maximum flow rate: 1000 CFM, which is controlled by fan's voltage
 - 4.2 Flow rate resolution: 50 CFM





The flow rate of chassis can be calculated by System Resistance Curve.



6 Temperature measurement of each 10U dummy server:

- 6.1 12 points on the inlet
- 6.2 24 points on the outlet
- 6.3 Digit display meters
 - a. Accuracy: ±0.5°C
 - b. Reading: 0.1°C
 - c. With RS-485 interface.





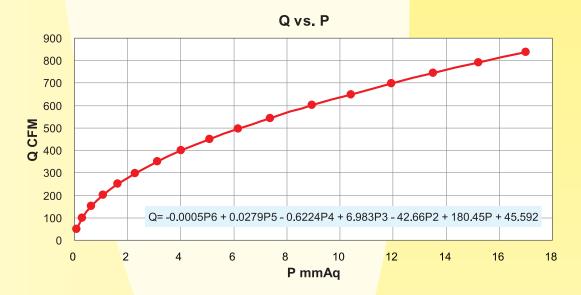


7 Power measurement:

- 7.1 Voltage accuracy: ±1.0%
- 7.2 Current accuracy: ±1.0%
- 7.3 power accuracy: ±1.0%
- 7.4 2 sets in total; with digit display and RS-485 interface
- 7.5 Range: 0 ~300 V and 0~5 Amp; maximum power: 1500 VA.

8 Pressure measurement:

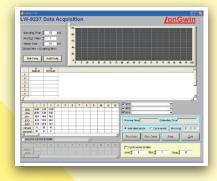
- 8.1 Accuracy of differential pressure transducer: ±0.25%; Made in USA.
- 8.2 With digit display and RS-485 interface.
- 8.3 Range: 0 ~ 12.7 mmAq
- 8.4 Convert differential pressure to airflow rate



- Over-heating protection (Referred temperature: 180°C)
 - 9.1 With over-current protection for digit meters.
- 10 DC power supply for fan:
 - 10.1 One set of Switching Power Supply DC48V, 10A.



- PC-based data acquisition software: LW-9237 Measuring parameters:
 - 11.1 heating power
 - 11.2 Differential pressure (airflow rate)
 - 11.3 Inlet temperature
 - 11.4 Outlet temperature



- 12 Power source
 - 12.1 For 10U dummy server: AC220V, single phase, 30Amp, 50 / 60 Hz
 - 12.2 For 40U dummy rack: AC220V, three phases, 70 Amp, 50 / 60 Hz.