

# Thermal Resistance Test Report



Date: 2023/08/24  
Engineer: Ken



### Test Condition

| Heat Flux     | Pressure        | Test Duration | Ambient Temp | Convection         |
|---------------|-----------------|---------------|--------------|--------------------|
| 270/300 Watts | 52.91lbf /24kgf | 30 minutes    | 40°C         | Natural Convection |

### Test Data

| Sample | Tc (°C) | Ta(°C) | Fan Speed (RPM) | F(kgf) | Q (W) | R (°C/W) |
|--------|---------|--------|-----------------|--------|-------|----------|
| 1      | 65.6    | 41.3   | 4993            | 23.83  | 270   | 0.09     |
| 2      | 68.2    | 41.8   | 5018            | 23.86  | 300   | 0.088    |

### Test Result

| Tc(°C) | R (°C/W) |
|--------|----------|
| 65.6   | 0.09     |
| 68.2   | 0.088    |

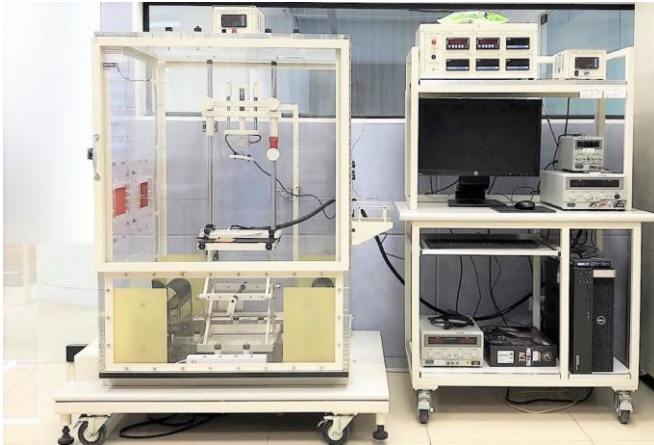
Part Number:

**RGB420-AD**

Description:

**4U CPU COOLER FOR INTEL  
SOCKET LGA4677  
PROCESSORS  
RATED FAN 5000RPM**

# Thermal Resistance Test Report



## NATURAL CONVECTION



## CIRCULATING CONVECTION

- CPU Cooler Thermal Resistance Measurement Apparatus with Natural Convection Chamber ,4 sets of 650 watts Infrared Radiation Heaters.
- Operating Temperature : Room Temperature ~ 70°C
- CPU Cooler Thermal Resistance Measurement Apparatus with Programmable temperature and humidity chamber, Through a mechanical circulation system, using fans and heating coils.
- Operating Temperature : -40°C ~ 150°C