

# Thermal Resistance Test Report



Part Number:  
**RGF320**  
Description:  
**3U CPU Cooler for AMD  
AM5 Processors**

Date: **2023/05/17**

Engineer: **Jason**

## Test Condition

Heat Flux	Pressure	Test Duration	Ambient Temp	Convection
<b>120Watts</b>	<b>16.8lbf/7.62kgf</b>	<b>30 minutes</b>	<b>60°C</b>	<b>Natural</b>
<b>170Watts</b>				<b>Convection</b>

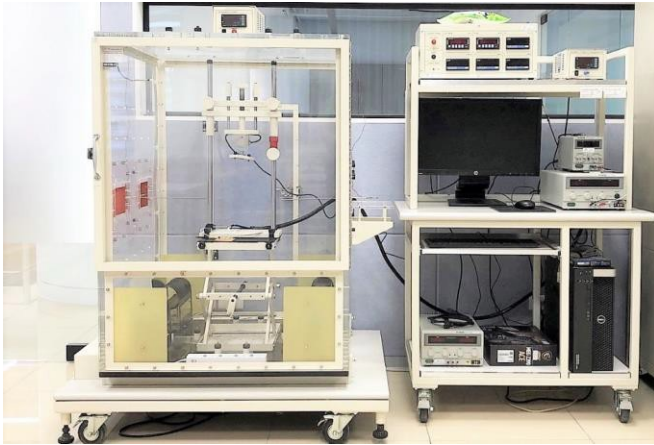
## Test Data

Sample	T <sub>c</sub> (°C)	T <sub>a</sub> (°C)	Fan Speed (RPM)	F (kgf)	Q (W)	R (°C/W)
<b>1</b>	<b>74</b>	<b>59.5</b>	<b>5013</b>	<b>7.71</b>	<b>120</b>	<b>0.121</b>
<b>2</b>	<b>80.20</b>	<b>61.0</b>	<b>5035</b>	<b>7.88</b>	<b>170</b>	<b>0.113</b>

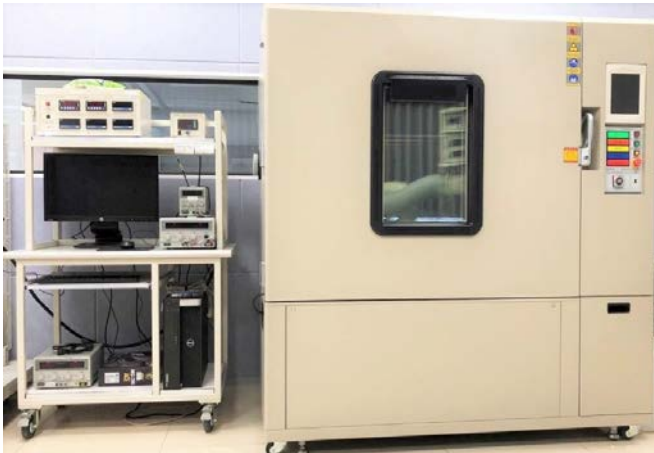
## Test Result

T <sub>c</sub> (°C)	R (°C/W)
<b>74</b>	<b>0.121</b>
<b>80.20</b>	<b>0.113</b>

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**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**