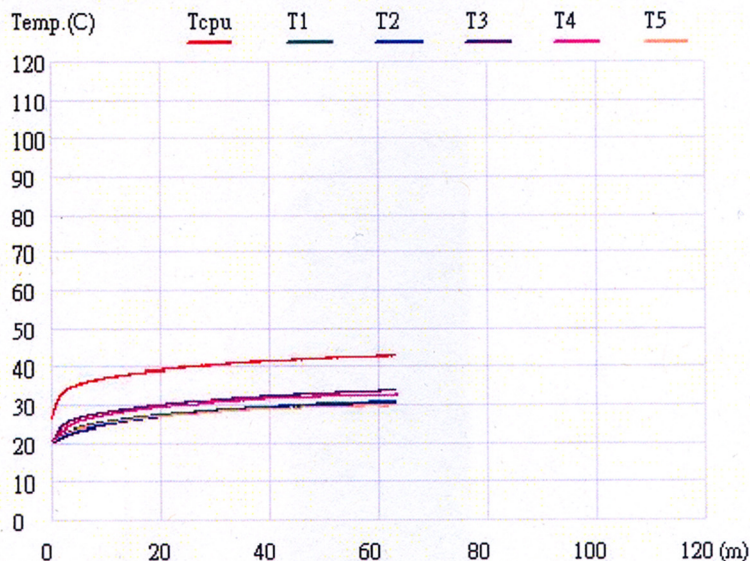


Test Report of Thermal Resistance

- 一. **Model No:** ETS-T40(Enermax) **Test Date:** Jan. 15th, 2011
- 二. **Test Equipment:** Thermal Resistance Tester
(Designed by National Tsing-Hua University)
- 三. **Test Place:**
國立台灣科技大學風機實驗室
Turbomachinery Lab, Department of Mechanical Engineering
National Taiwan University of Science and Technology
(A professional thermal test lab for CPU Cooler be upheld by Professor Sheam-Chyun Lin)
43, Section 4, Keelung Road, Taipei, Taiwan, R.O.C.
Tel: 886-2-27376453 Fax: 886-2-27376460 E-mail: sclynn@mail.ntust.edu.tw

四. Test Record:

Thermal Resistance for Different Fan Speeds and Powers



Point 1: Ambient Temp.:35°C ; CPU Temp.:44.1°C ; Input Power:95.85W ; Rth:0.09C/W

五. Thermal Resistance: Tc: CPU Temperature Ta: Ambient Temperature $\Delta T = T_c - T_a$

CPU Power (TDP)	Tc(°C)	Ta(°C)	$\Delta T(°C)$	$\Theta(°C/W)$	Fan Speed(rpm)	Noise(dB)
95W	54.4	35	19.4	0.20	800	19.3
	47.4	35	12.4	0.13	1200	24.3
	45.4	35	10.4	0.11	1500	31.5
	44.1	35	9.1	0.09	1700	35.5
200W	57.2	35	22.2	0.11	1700	35.5

By Fourier's Law:

Thermal Resistance $\Theta(°C/W) = \Delta T / \text{CPU Power}$

