



## Enermax ETS-T40-VD

Seemingly every CPU cooler review these days details the proprietary technologies or design features the manufacturer has implemented into its latest offering. With the ETS-T40-VD, these would be Enermax's patented VGF (Vortex Generator Flow), HDT (Heat Pipe Direct Touch), and SEF (Stack Effect). Enermax claims these work together to "greatly increase air convection," "ensure rapid thermal conduction and eliminate CPU hot-spots," and "enhance heat transfer." The end result is what Enermax states is "world-leading" 0.09 degrees Celsius per watt thermal resistance.

Among Enermax's homebrewed goodies, VGF interestingly removes heat from behind the heatpipes, something

standard designs don't, Enermax states. Also intriguing is HDT, which uses Directed Touch Technology to put the cooler's four side-flowing 6mm copper heatpipes in direct contact with the CPU. Further aiding heat removal is a 120mm T.B. Vegas Duo fan (800 to 1,800rpm) that uses Enermax's Twister Bearing technology and that provides multiple modes of blue and red LED lighting. (Optional dual-fan installation is possible.)

To test the cooler, I installed it on a test bed running a 3.4GHz Intel Core i7-2600K seated on an MSI Z68A-GD65 (G3) motherboard outfitted with 16GB of G.Skill DDR3-1600 and an Nvidia GeForce GTX 580 graphics card. Installation was quick and hassle-free

but did require removing the fan before securing the cooler. With the test system idling, temps measured 29.75 C for the ETS-T40-VD vs. 32.25 C for Intel's stock cooler. Under the RealTemp single-thread XS test, the ETS-T40-VD scored 1,521 compared to 1,527 for stock. In POV-Ray, with the Render All CPUs option running, the ETS-T40-VD held the line at 49.25 C while the stock cooler shot to 69.75 C.

The ETS-T40-VD is one of three new ETS-T40 coolers, the others being the ETS-40-TB (\$39.99) and ETS-T40-TA (\$49.99). The ETS-T40-TA, like the ETS-T40-VD, includes an LED fan.

Quiet, affordable, and an impressive performer, the ETS-T40-VD makes good use of the gifts that Enermax has presented it with. ■

**Specs:** Socket compatibility: Intel LGA775/1155/1156/1366, AMD AM2/AM2+/AM3/AM3+/FM1; Materials: Aluminum (fins, base), copper (heatpipes, base); Dimensions: 160mm x 93mm x 139mm (HxWxD); Weight: 610 grams; Fan: 1 120mm (800 to 1,800rpm); Airflow: 33.26 to 75.98cfm; 100,000 hours MTBF; Acoustics: 16 to 26dB(A)

**Test system specs:** Processor: 3.4GHz Intel Core i7-2600K; Motherboard: MSI Z68A-GD65 (G3); RAM: 16GB G.Skill DDR3-1600; GPU: Nvidia GeForce GTX 580; Storage: Crucial RealSSD C300 128GB; Windows 7 Enterprise 64-bit

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### ETS-T40-VD

\$49.99

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