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# Which is better liquid cooling or air cooling





## Overview

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There isn't a significant performance difference between good air coolers and good AIO liquid coolers, although liquid coolers generally have a slight edge. Are air coolers better than liquid coolers?

As for air coolers, they radiate some of their heat within the case and can make the surrounding components slightly warmer. Proper custom loop water cooling solutions can cost an arm and a leg, so we're taking them out of the equation right away. As for AIO liquid coolers, they're always going to cost more than a comparable air cooler.

Why is liquid cooling better than air?

During demanding workloads such as gaming marathons or intensive 3D rendering, liquid coolers tend to outperform air counterparts, maintaining lower temperatures and preventing thermal throttling. Systems with powerful, overclocked components typically benefit most from the superior thermal dissipation of liquid cooling.

Is a liquid CPU cooler better than air cooling?

In contrast, air cooling uses heatsinks and fans to directly transfer heat into the air, which is simpler but sometimes less effective. So, if you're building a gaming PC and want the most effective cooling system, you really can't go wrong with a liquid CPU cooler.

What is the difference between air and liquid cooling systems?

At their core, both air and liquid cooling systems follow a similar thermodynamic principle: transferring heat from a hot surface to a cooler medium (air or liquid), which then dissipates it into the environment. The key difference lies in the method and efficiency of this heat transfer.



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