

Liquid Cooling Myths

BUSTED

Common liquid cooling misconceptions,
and why they're wrong

01

"Leaks don't happen in the secondary (IT) loop"

4% of deployed GPUs that are liquid cooled have failed due to water-based leaks.



02

"PG25 fluids are all the same and can be mixed"

PG25 fluids may have unique characteristics, such as levels of biocides and inhibitors, and should not be mixed.



03

"PG25 doesn't conduct electricity in IT equipment"

PG25 conducts electricity; not only does it pose a risk to IT hardware, but human safety as well!



04

"Single-phase D2C eliminates hot spots"

1P D2C can have hot spots, while 2P D2C cooling is more uniform, supporting different junction temperatures in and around processors.



05

"Refrigerants require regular testing & maintenance"

Water and PG25 fluids require quality testing and additives, while refrigerants don't!



06

"All refrigerants are bad for the environment"

Our Eco+ (R-1233zd) is a 4th-gen refrigerant with a GWP of 1, 0 ozone depletion potential (ODP), and an A1 safety rating.



07

"2P D2C and 2P immersion use the same fluids"

Accelsius uses widely available commercial HVAC refrigerants, while 2P immersion requires expensive designer fluids.



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