

## Alphacool HPE-30 Full Copper 280mm Radiator - White

Alphacool article number: 10224



### Quick Info

For more than a decade, Alphacool has dominated the market with its Full Copper radiator series. Our extensive portfolio of radiator variants is unique worldwide, just like our manufacturing process, which enables us to craft all water-bearing parts and cooling fins from pure copper. Thanks to their exceptional performance, these radiators can effortlessly dissipate even extremely high waste heat, making them indispensable in many sectors of the cooling industry.

- 1.2x increased water throughput compared to NexXos standard
- 20% more efficient heat transfer compared to NexXos standard
- 100% of the internal structure is made of copper

## Scope of delivery

1x Alphacool HPE-30 Full Copper Radiator  
8x M3x5 case mounting screws  
8x M3x30 fan screws  
1x Allen key  
1x plug tool

## Technical data

Dimensions (L x W x H)	314.5 x 144 x 30mm (+/- 3%)
Quantity of cooling channels	14
Material cooling fins, pre-chambers & channels	copper
Material threads	brass
Material outer housing	stainless steel
Threads	4x G1/4" IN/OUT & 1x Fill-/Drainport G1/4" (max. 5mm thread length)
Possible fan size	140mm
Possible fan assembly	2x one-sided / 4x both-sided
Thread size fan mounting	M3
Pressure tested	0.8 Bar
Maximum working temperature	60°C
Fin density	18 FPI
Weight	720g
Color	white

## Download links

Product pictures	<a href="#">10224_Alphacool_HPE-30_Full_Copper_280mm_Radiator_-_White_pics.zip</a>
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## Packaging dimensions per unit

L x W x H	385 x 155 x 45 mm
Weight	912 g

## Other data

Certificates	CE, FC, ROHS
EAN	4250197102247
Customs code	84195080900
Guarantee	10 years

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### **The next step in evolution: HPE Full Copper Radiator!**

The Full Copper HPE Radiator uses the same materials as the previous NexXoS models but takes a technical step forward. With a denser internal structure, the number of water channels and copper fins has been increased. This design ensures a larger water volume is in direct contact with the cooling fins, significantly enhancing heat transfer. The increased number of fin rows and their shortening also results in a much more efficient utilization of the cooling surface. Comparison tests with the conventional NexXoS radiator have demonstrated that the HPE radiator can achieve a performance improvement of 4.5K. At higher ambient temperatures and fan speeds, the performance gap between the HPE and standard NexXoS radiators increases progressively, with possible performance gains of up to 6K.

### **Connection options & mounting**

The HPE radiator features two IN or OUT connections with G1/4" threads in the pre-chamber area. On the opposite side, there is a fill or drain port for filling and draining the water circuit. The radiator comes with all necessary screws for case and fan installation. Additional screws are typically not required.

### **Safety first**

The HPE radiator is equipped with special protective plates beneath all mounting holes to prevent screws from being inserted too deeply. This ensures the cooling fins and water channels underneath are protected from damage.

### **Patented screw plugs**

All HPE radiators use Alphacool's patented screw plugs. Protruding screw plugs often prevent the radiator from being installed flush. Alphacool's screw plugs are fully recessed into the radiator, flush with its surface, allowing for easy and seamless installation in the case.

# Drawing

