

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

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### Quick Info

For more than a decade, Alphacool has dominated the market with the NexXoS Full Copper radiator series. Our extensive portfolio of radiator variants is unique in the world. Just like our manufacturing process, which allows us to produce all water-carrying parts and the cooling fins out of pure copper. As a result, the NexXoS series offers the highest thermal conductivity of any radiator on the market. Thanks to their exceptional performance, the radiators can easily dissipate even extremely high waste heat and have become essential in many areas 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 NexXoS HPE-30 Full Copper 360mm Radiator, black  
8x M3x5 case mounting screws  
8x M3x30 fan screws  
1x Allen key  
1x plug tool

## Technical data radiator

L x W x H	314,5 x 144 x 30mm (+/- 3%)
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	724g
Color	black

## Download links

Product pictures | [14378\\_Alphacool\\_NexXoS\\_HPE-30\\_Full\\_Copper\\_280mm\\_Radiator\\_pics.zip](#)

## Packaging dimensions per unit

L x W x H	385 x 155 x 45 mm
Weight	927 g

## Other data

Certificates	CE, FC, ROHS
EAN	4250197143783
Customs code	84195080900

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

The NexXoS Full Copper HPE Radiator uses the same materials as previous NexXoS models, but takes it a step further technically. Due to the condensed internal structure, the number of water channels and copper fins could be increased. Thus, a larger volume of water is in direct contact with the cooling fins and the heat transfer is enormously improved. The higher number of fin rows and their shortening also makes much more efficient use of the cooling surface. Comparison tests\* with the conventional NexXoS radiator have shown that a performance increase of 4.5K is possible when using the HPE radiator. At higher ambient temperatures and higher fan speeds, the performance gap with the normal NexXoS radiators even increases progressively, reaching a possible performance increase of up to 6K.

(\* Test setup: NexXoS ST30 360mm radiator vs. NexXoS HPE-30 360mm radiator with Eisbaer cooler and 3x 120mm Rise Aurora fans and on Asus Prime x299 motherboard with Intel i9 10900x CPU with 350W waste heat)

### **Connection options & mounting**

The NexXoS HPE radiator has two IN or OUT connections with G1/4" threads in the pre-chamber area. On the opposite side is a fill or drain port, which can be used for filling and draining the water circuit. All screws for mounting in the case and for mounting the fans are included with the radiator. Additional screws are not usually required.

### **Safety first**

The NexXoS HPE radiator has special protective plates placed under all mounting holes to prevent the screws from being screwed in too deeply. This protects the cooling fins and water channels underneath from damage.

### **Patented screw plugs**

All NexXoS HPE radiators use Alphacool's patented screw plugs. Protruding screw plugs often mean that the radiator cannot be laid flush. Alphacool's screw plugs are fully recessed into the radiator, flush with its surface and allow easy installation in the case.

# Drawing

