

## Alphacool NexXxoS ST20 HPE Full Copper 280mm Radiator

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### Quick Info

For more than a decade, Alphacool has dominated the market with the NexXxoS 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 NexXxoS 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 NexXxos standard
- 20% more efficient heat transfer compared to NexXxos standard
- 100% of the internal structure is made of copper

## Scope of delivery

1x Alphacool NexXxoS ST20 HPE Full Copper 280mm 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	311 x 140 x 20mm
Material cooling fins, pre-chambers & channels	copper
Material threads	brass
Material outer housing	stainless steel
Threads	2x G1/4" IN/OUT (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	19 FPI
Weight	569g
Color	black

## Download links

Product pictures | [14444\\_Alphacool\\_NexXxoS\\_ST20\\_HPE\\_Full\\_Copper\\_280mm\\_Radiator\\_pics.zip](#)

## Packaging dimensions per unit

L x W x H	385 x 160 x 40 mm
Weight	746 g

## Other data

Certificates	CE, FC, ROHS
EAN	4250197144445
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.

### **Space-saving & flexible to use**

The compact slim radiators can be mounted very flexibly in even the tightest cases thanks to their low overall height of only 20mm.

### **Connection options & mounting**

The NexXoS HPE radiator has one IN and OUT connection with G1/4" threads in the pre-chamber area. 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.

# Drawing

