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Alphacool NexXxoS XT45 Full Copper 80mm Single radiator

Alphacool article number: 14211

Quick Info

The world-renowned manufacturer Alphacool is currently the only manufacturer in the world that uses pure copper for all water-carrying parts. The pre-chambers, water channels and fins are all made of pure copper. As a result, Alphacool radiators offer the highest thermal conductivity, which means that the performance limit is significantly higher than with aluminum radiators. In short, the cooling capacity is simply higher if you want to dissipate a lot of heat. Copper has been the best choice in water cooling materials for years

Scope of delivery

1x Radiator
4x M3x30mm hexagon socket screw
4x M3x35mm hexagon socket screw

Technical data radiator

L x W x H	121,5 x 41 x 82 mm (+/- 3% tolerance in the range of the prechamber)
Quantity of cooling channels	16
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	80mm
Possible fan assembly	1x one-sided / 2x both-sided
Thread size fan mounting	M3
Pressure tested	0,8 Bar
Maximum working temperature	60°C
Fin density	12 FPI
Weight	384g
Color	black

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Product pictures	14211_Alphacool_NexXxoS_XT45_Full_Copper_80mm_Single_radiator_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_14211.pdf

Packaging dimensions per unit

L x W x H	155 x 95 x 55 mm
Weight	384 g

Other data

Certificates	CE, FC, ROHS
EAN	4250197142113
Customs code	84195080900

Article text

The world-renowned manufacturer Alphacool is currently the only manufacturer in the world that uses pure copper for all water-carrying parts. The pre-chambers, water channels and fins are all made of pure copper. As a result, Alphacool radiators offer the highest thermal conductivity, which means that the performance limit is significantly higher than with aluminum radiators. In short, the cooling capacity is simply higher if you want to dissipate a lot of heat. Copper has been the best choice in water cooling materials for years.

All Alphacool radiators are designed for silent operation. So you don't need fans with particularly high static pressure to achieve the desired performance, but can rely on normal fans with low speed. The performance loss compared to special fans for radiators is thus minor and can usually be ignored. Of course, those who want to achieve the maximum cooling performance and rely on adapted fans for radiators will not be disappointed. The maximum performance does not suffer from this. Thanks to the copper and the high-quality manufacturing process, you still get a huge performance increase for your water-cooled components even with high-performance fans.

The fans are mounted with the included 30 or 35 mm M3 screws. In doing so, all Alphacool radiators offer protection that prevents the screws from being screwed into the cooling fins. A metal plate below the holes prevents further penetration of the screws. To mount the radiator directly to the case, matching screws are included.

Alphacool covers almost all sizes with the NexXxoS radiator series and offers the most extensive portfolio of all manufacturers in this area. Starting from 40 mm dual radiators up to the triple radiator for 180 mm fans. In addition, different thicknesses: ST30, XT45, UT60 and Monsta, where the number always stands for the thickness of the radiator in millimeters and the Monsta radiators are about 86 mm thick. In addition, there are special sizes and HPC industrial radiators. These are special radiators that are designed for high pressure.

The connection options for the NexXxoS radiators are extensive. While the narrow ST30 radiator has 2 inlets and outlets each, all thicker radiators from the XT45 offer 3 inlets and outlets each in G ¼" format. In addition, there is a G ¼ "connection for filling or venting at the rear pre-chamber. This gives you the option to mount the radiator in any desired position.

An exception are the X-Flow radiators. These have in the ST30 version each 2 inlets or outlets on both pre-chambers. Here the water does not flow in a U-shape as usual, but from one side of the radiator to the other. The models from the size XT45 have as usual 3 inlets or outlets on each of the pre-chambers. Thus, the X-Flow radiators offer you further possibilities to adjust the water circuit in your system according to your wishes.

With a radiator from the Alphacool NexXxoS series, you get a unique all-copper radiator with outstanding performance.