V. 1.002 // 09.2026

Download Center

Alphacool NexXxoS XT45 Full Copper Dual-Flow 360mm Radiator

Alphacool article number: 14389

Quick Info

Alphacool Dual-Flow radiators were developed specifically for use in servers. The ability to run two separate loops through one radiator is unique. There are also advantages to using them in a single loop as you can split the cooling surface and use it directly behind hotspots.

- Solid copper radiator
- Versatile connection options
- 2 separate waterways

Scope of delivery

1x Alphacool NexXxoS XT45 Full Copper Dual-Flow 360mm Radiator, Black
12x M3x8 screw
12x M3x30 screw
12x M3x45 screw
8x screw plug
1x hexagon socket

Technical data

Dimensions (L x W x H)	415 x 125 x 45mm
Quantity of cooling channels	24
Cooling channels	Copper
Color	black
Fan thread	M3
Slats	Copper
Thickness	39 - 49mm
Number of fans	3
Fan size	120mm
Housing	Steel
Pressure tested	0,8 bar
Manufacturer	Alphacool
Fins per inch	12
Connection	12x G1/4"

Download links

Product pictures	14389_Alphacool_NexXxoS_XT45_Full_Copper_Dual-Flow_360mm_Radiator_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_14389.pdf

Packaging dimensions per unit

L x W x H	463 x 135 x 65 mm
Weight	1498 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197143899
Customs code	84195080900

Article text

Alphacool Dual-Flow radiators were developed specifically for use in servers. The ability to run two separate loops through one radiator is unique. There are also advantages to using them in a single loop as you can split the cooling surface and use it directly behind hotspots.

What does dual flow mean?

The water flow in a classic radiator is in a U-shape. Water is introduced on one side, runs once through half of the radiator before turning around and running back through the other half. The outlet is on the same side as the inlet. In an X-Flow radiator, the water flows once from left to right completely through the radiator. The inlet and outlet are on opposite sides. With the Dual-Flow Radiator, the water flows from one side to the other just like the X-Flow. However, the Dual-Flow Radiator is divided in the middle. You could also say the Dual-Flow Radiator is nothing more than two small X-Flow Radiators in one.

What are the advantages?

In most server racks, space is extremely limited and being able to do fancy loops is not usually an option. Due to this you can utilise the radiator to simplify the loop and reduce the amount of tubing needed. In some test scenarios, we have even seen an increase in performance from the loop due to this method too.

Many connection and mounting options

The radiator offers 3 connection options at each input and output. In total, the radiator has 12x G1/4" connections. Thus, versatile mounting requirements can be met. The radiator comes with all screws for mounting inside a case or server rack and for mounting the fans. Additional screws are usually not needed. There is also a protective plate between the mounting holes and the cooling fins. This is to prevent overly long screws from damaging the cooling fins and cooling channels.

Choice of materials

Alphacool is the only manufacturer in the world to use only copper in all water-carrying parts in the radiator. The pre-chambers and the cooling channels are made of copper. The connection threads are made of brass and the cooling fins are also made of copper. Only the side parts to protect the cooling fins are made of sheet steel.