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Alphacool NexXxoS XT45 Full Copper 1260mm SuperNova Radiator

Alphacool article number: 14351

Quick Info

Big, Bigger, SuperNova! 400 x 400 x 45 mm of pure cooling surface for nine 140mm or four 200 mm fans. No other Alphacool radiator offers as much surface area in a single product.

- solid copper radiator
- large cooling surface
- detachable mounting frame

Scope of delivery

1x Alphacool NexXxoS XT45 Full Copper SuperNova Radiator, black
36x M3x30 Screws
1x Allen Key
1x plug tool
1x stop plug
1x fan mounting bracket for 140mm fan 420 x 420mm
1x fan mounting bracket for 200mm fan 420 x 420mm

Technical data radiator

L x W x H	441 x 422 x 48 mm
Quantity of cooling channels	68
Material cooling fins, pre-chambers & channels	copper
Material threads	brass
Material outer housing	stainless steel
Threads	3x G1/4"
Possible fan size	140 mm front / 200 mm back
Possible fan assembly	9 front / 4 back
Thread size fan mounting	M3
Pressure tested	0,8 Bar
Maximum working temperature	60°C
Fin density	12 FPI
Weight	4225 g
Color	black

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Manual	14351_Alphacool_NexXxoS_XT45_Full_Copper_1260mm_SuperNova_Radiator_Manual.pdf
Product pictures	14351_Alphacool_NexXxoS_XT45_Full_Copper_1260mm_SuperNova_Radiator_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_14351.pdf

Packaging dimensions per unit

L x W x H	500 x 435 x 60 mm
Weight	4900 g

Other data

Certificates	CE, FC, ROHS
EAN	4250197143516
Customs code	84195080900
Guarantee	10 years

Article text

Big, Bigger, SuperNova! 400 x 400 x 45 mm of pure cooling surface for nine 140mm or four 200 mm fans. No other Alphacool radiator offers as much surface area in a single product.

Make No Compromises, Use Copper.

As usual, Alphacool also uses pure copper for the NexXxoS 1260 SuperNova Radiator. The end chambers, water channels and cooling fins are all made of copper and are a unique selling point worldwide. As a result, Alphacool radiators have been among the most popular and best on the market for many years, providing the perfect foundation for every water cooling system.

Full Cooling Capacity

To maximize the performance of a radiator, Alphacool reaches deep into its bag of tricks. Copper is the starting point. With a thermal conductivity of 400 W/(mK) for copper compared to 236 W/(mK) for aluminium, the winner is clear. Alongside this is the special fin density. Alphacool is one of the oldest companies in the field of water cooling and has carried out countless laboratory tests. The result, especially for such large radiators, is a fin spacing of 12 FPI. This means that the air flow is almost unobstructed as the air can pass through even without high pressure. However, the cooling capacity does not suffer from this, on the contrary. To use the airflow optimally, all cooling fins have small serrations. These are tiny flaps that guide the airflow in the desired direction and increase the surface area. In the case of radiators, they are barely 1 mm high, but still provide controlled air turbulence to increase cooling capacity and minimise airflow noise.

Which fans?

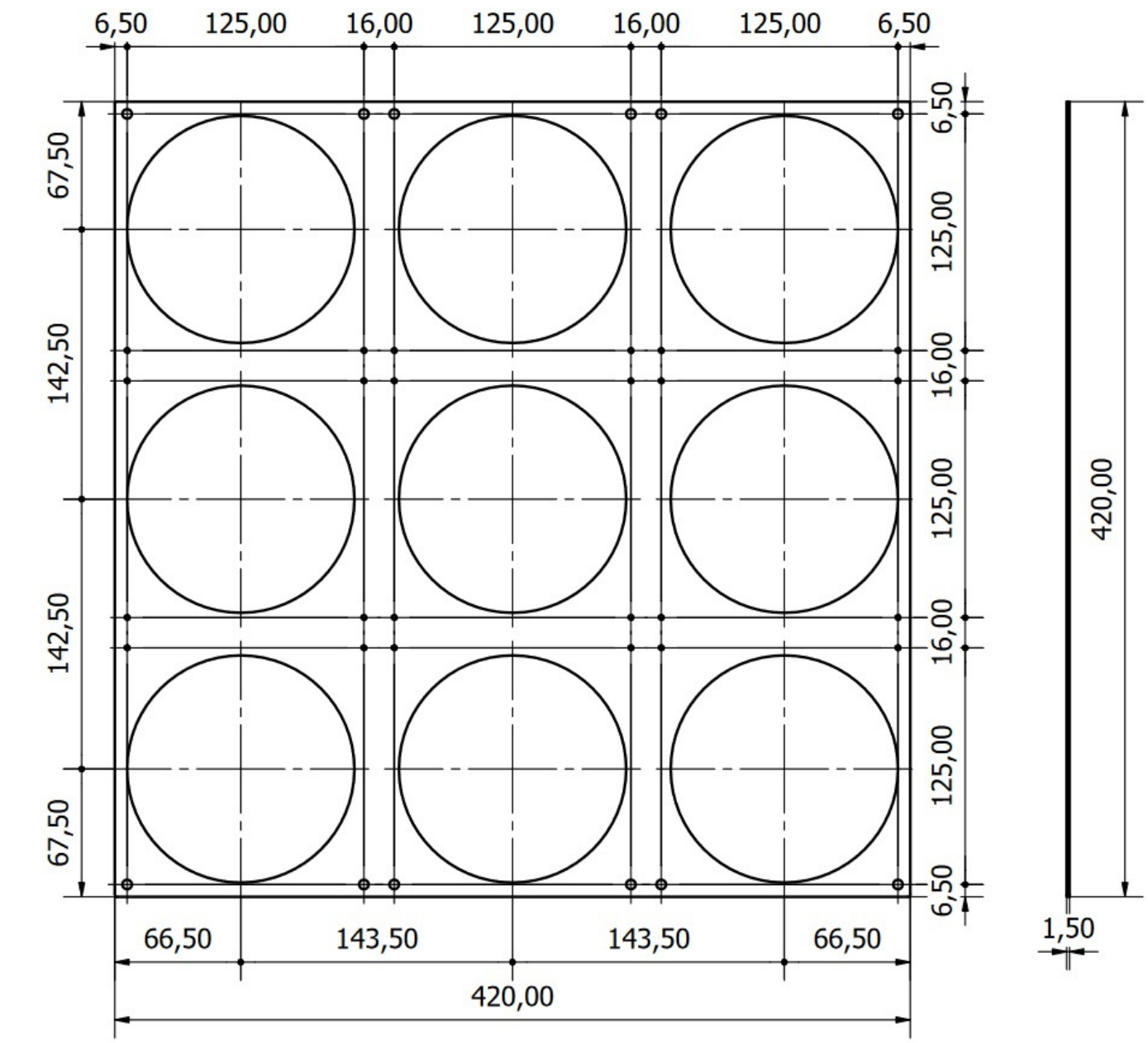
The 1260 SuperNova Radiator offers for four 200 mm fans with a hole spacing of 154 mm on one side. On the opposite side, up to nine classic 140 mm fans can be mounted on another mounting plate. If you want to operate the radiator passively, you can remove both mounting plates. This will ensure you do not to obstruct the natural airflow. Of course, the mounting plates for both types of fans can also be interchanged. This gives you more freedom when mounting the fans.

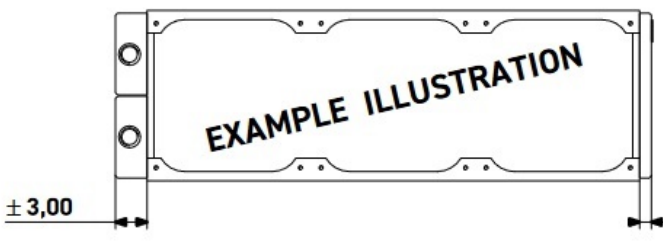
Connection options

The Alphacool NexXxoS SuperNova Radiator offers two G1/4" threads for IN and OUT. A further G1/4" thread on the back of the radiator serves as a fill port. Alternatively, a temperature sensor or a drain port can also be attached here.

The king on the rads! No other radiator in Alphacool's portfolio can match the performance of the SuperNova radiator. With four 200mm or a whopping nine 140 mm fans and a pure cooling surface of 40 x 40 cm, it really does live up to the SuperNova name.

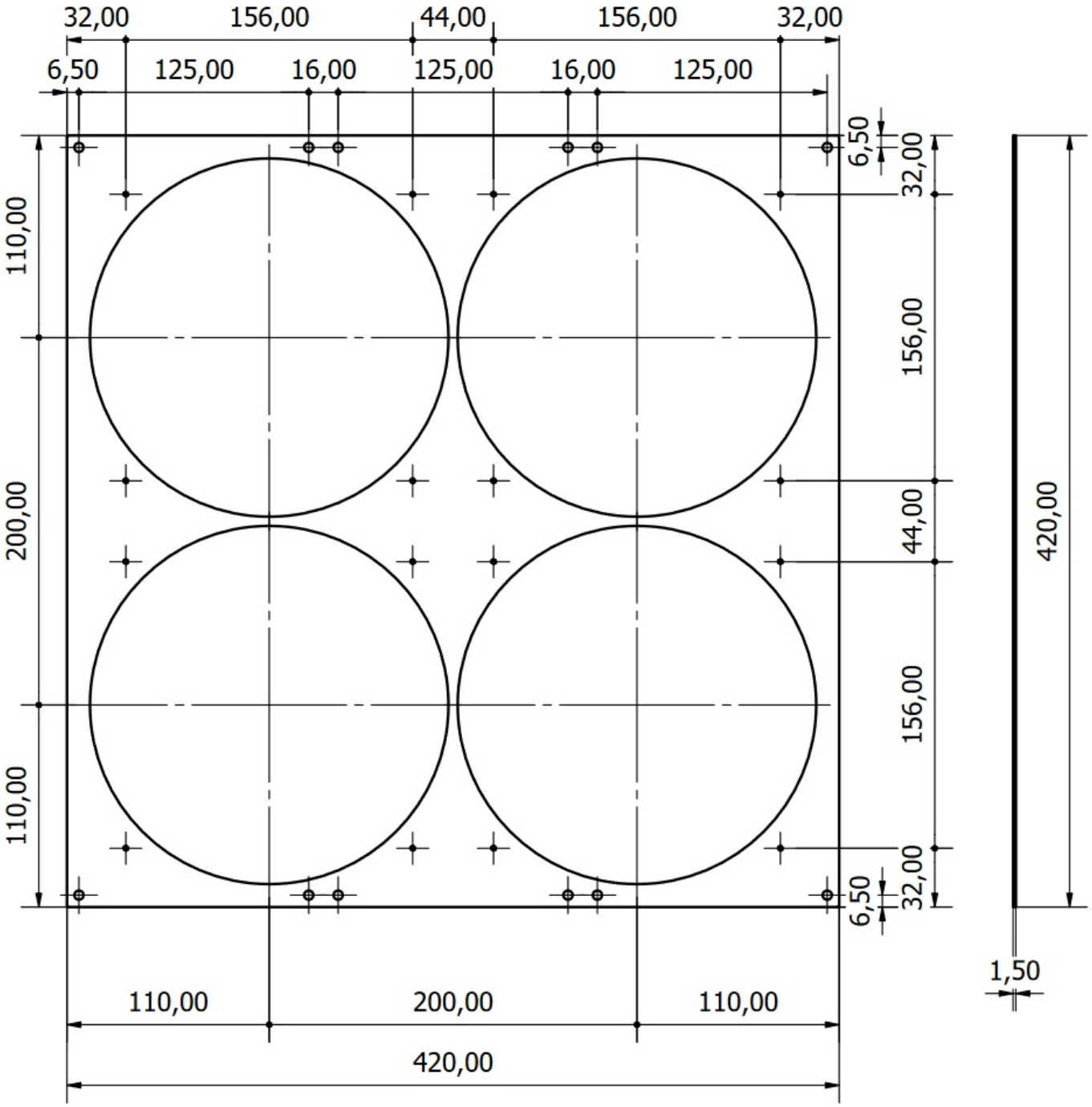
Figure (1)





Tolerance of all the end tanks
General tolerance: ± 0,75
Dimension in millimeter

Figure (2)



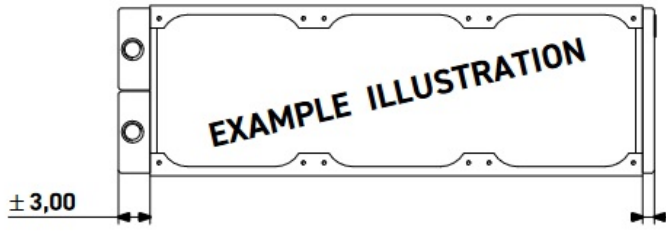


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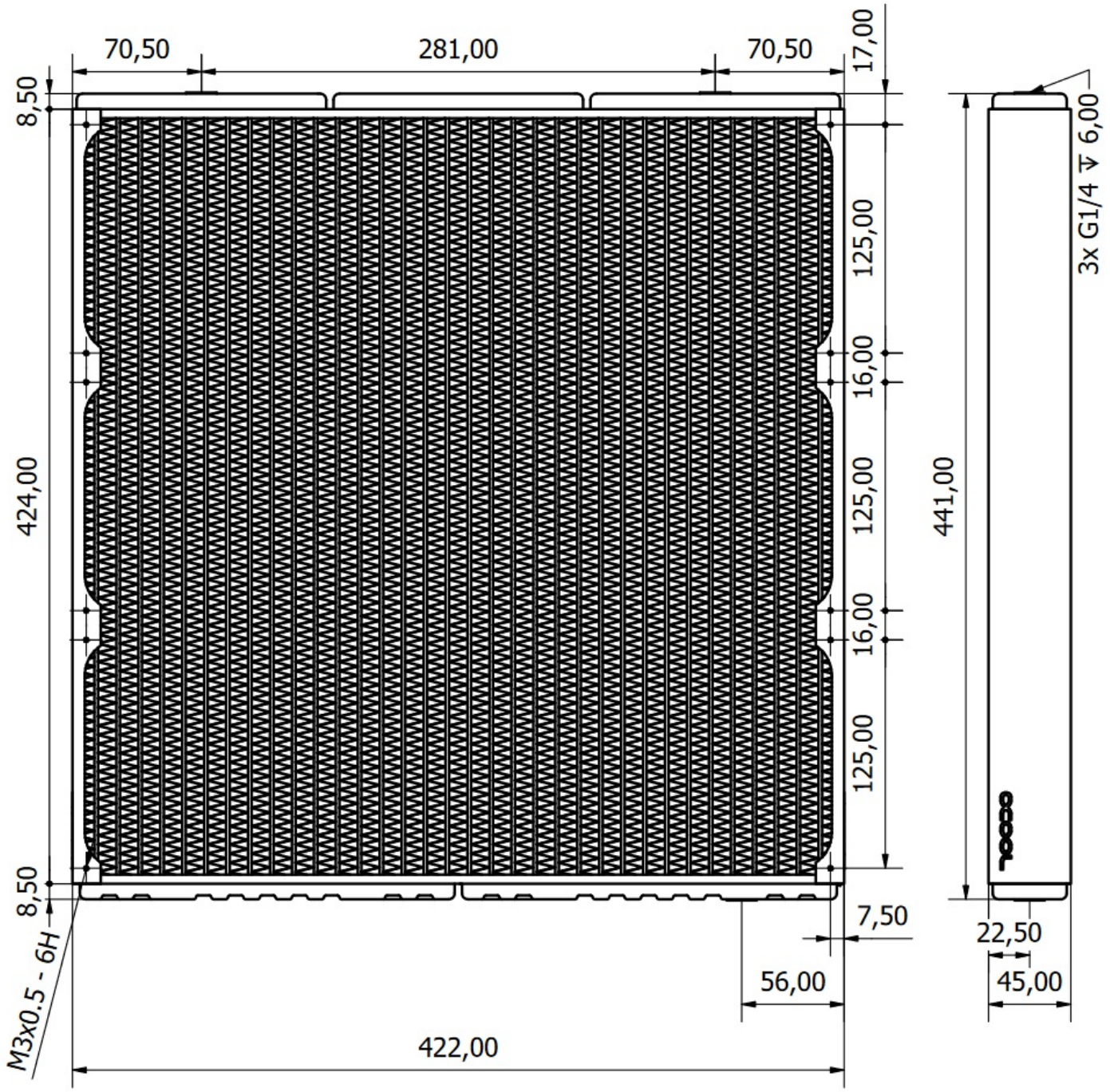
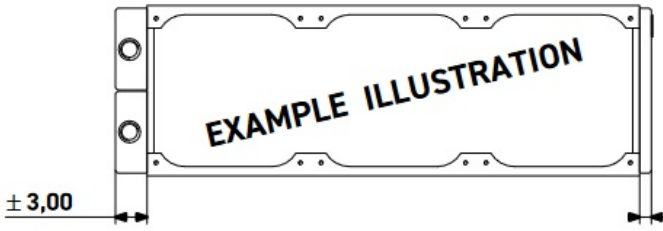
Figure (3)





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