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Alphacool Eisbaer Pro ES 80mm Triple HPE + 3x ES PWM fans (AMD TR4/sTRX4/SP3/sWRX8/Intel 3647)

Alphacool article number: 11972

Quick Info

The Eisbaer Pro ES 2U 80mm Triple HPE AIO water cooling solution features an extremely powerful NexXxos 80mm Triple full copper radiator, equipped with high-throughput 80mm ES fans. All components used come from the Enterprise Solutions water cooling segment. Alphacool's Eisbaer Pro ES 2U 80mm Triple HPE AIO is a professional all-in-one water cooling solution that is easy to install and offers the performance of a pre-assembled and pre-filled custom loop.

- Full copper Radiator
- Nickel-plated copper cooler bottom
- CPU cooler specially designed for processors with particularly large processor cores

Compatibility

AMD: AM4 / AM5 / SP3 / SP6 / sTR5 / sWRX8 / TR4

Intel: LGA 1700 / LGA 1851 / LGA 2011 / LGA 2011-3 / LGA 3647 / LGA 4189 / LGA 4677 (optional) / LGA 4710 (optional)

We assume no responsibility for any typing errors. Alphacool International GmbH, Marienberger Strasse 1, 38122 Braunschweig Tel: (+49)0531 288 7400 Supportmail: info@alphacool.com

Scope of delivery

1x Eisbaer Pro ES 2U 80mm Triple HPE AIO x3 (Radiator, Lüfter & Kühler)
1x Mounting set AMD
1x Mounting set Intel
1x Thermal compound (Subzero 16 W/mK)
16x M3x30 fan screws
16x M3x5 case mounting screws
1x Plug tool
1x Allen key

Technical data cooler with pump

Dimensions (L x W x H)	64 x 79 x 54,3mm
Tube length	75cm
Material cooler bottom	nickel plated copper
Material cooler top	Acryl
Threads	2x G1/4" (+ 1x Fillport G1/4")
Pump type	DC-LT2
Pump speed	2600 rpm (+/- 10%)
Head of delivery	1m
Maximum flow	72 L/h
Voltage	6-13,5V DC
Power consumption	3,2W
Pressure tested	0,8 Bar
Maximum working temperature	60°C
Color	black

Technical data radiator

Dimensions (L x W x H)	284 x 80 x 60mm
Material cooling fins, prechambers & cooling channels	Copper
Pressure tested	1,5 Bar
Connector	G1/4"
Color	black

Technical data fan

Dimensions (L x W x H)	80 x 80 x 25mm
Air flow	130,93 m^3/h
Rated speed range	800 - 6000 rpm
RPM signal transmission	Yes
Color	black

Technical data tube

Material	TPV (EPDM/PP)
Tube size	12,7/7,6mm
Hardness grade	35 Shore-A to 50 Shore-D
Maximum working temperature	-50 to +155°C
Color	black

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Manual	11972_Alphacool_Eisbaer_Pro_ES_80mm_Triple_HPE__3x__ES_PWM_fans_(AMD_TR4-sTRX4-SP3-sWRX8-Intel_3647)_Manual.pdf
Safety data sheet	11972_Alphacool_Eisbaer_Pro_ES_80mm_Triple_HPE__3x__ES_PWM_fans_(AMD_TR4-sTRX4-SP3-sWRX8-Intel_3647)_SDS.pdf
Product pictures	11972_Alphacool_Eisbaer_Pro_ES_80mm_Triple_HPE__3x__ES_PWM_fans_(AMD_TR4-sTRX4-SP3-sWRX8-Intel_3647)_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_11972.pdf

Packaging dimensions per unit

L x W x H	450 x 400 x 110 mm
Weight	3167 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197119726
Customs code	84195080900

Article text

The Eisbaer Pro ES 2U 80mm Triple HPE AIO water cooling solution features an extremely powerful NexXxos 80mm Triple full copper radiator, equipped with high-throughput 80mm ES fans. All components used come from the Enterprise Solutions water cooling segment. Alphacool's Eisbaer Pro ES 2U 80mm Triple HPE AIO is a professional all-in-one water cooling solution that is easy to install and offers the performance of a pre-assembled and pre-filled custom loop.

Powerful Full Copper Radiator

The 80mm NexXxoS radiators are specifically designed for server racks and workstations. The copper cooling fins are extremely thinly coated compared to most other manufacturers. This ensures that the cooling performance is not reduced, as a thick coating acts as insulation. The fin spacing is also optimally chosen with 10 FPI. The fins are close enough together to provide enough cooling surface area, but far enough apart to not hinder the airflow. Additionally, all cooling fins are equipped with flaps to provide controlled air turbulence, allowing the flowing air to better absorb and transport heat away from the fins.

Optimal Cooling

The cooler base covers the entire surface area of the respective processors. The surface area with cooling fins is larger that of all known processor DIEs, with a size of around 55 x 42mm. This ensures that all hotspots of a CPU are optimally cooled. The cooling fins are 0.4mm thick and also have an optimal spacing of 0.4mm from each other. There are a total of 58 cooling fins on the cooler base. The cooler base is only 3mm thick, allowing the heat to quickly reach the water and be removed.

Reliable Pump

The Eisbaer Pro ES cooler uses the very compact and small DC-LT 2 pump. It provides enough power to include additional components such as GPU water blocks or radiators in the water loop.

High-Quality TPV Tubes

The hose connections come from the normal DIY segment and use a G1/4" thread. Therefore, they can be easily replaced. The TPV hose is free of plasticizers and does not deform, unlike traditional PVC hoses, even at high temperatures.

With the Alphacool LGA 4677 Mounting Bracket (article no.: 13764), this cooler is also compatible with the Intel socket LGA 4677.

Attention: This set is not compatible with servers in the 1U and 2U form factor.