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Alphacool Core Wind 240mm ST30 water cooling Set

Alphacool article number: 11984

Quick Info

With the Core Wind water cooling kit, Alphacool provides all the components needed to get started in the world of water cooling. The set is aimed not only at beginners, but also at enthusiasts. The selected components are optimally matched and come from Alphacool's DIY program. The choice of materials is still uncompromisingly based on copper or brass for all metals in order to guarantee performance-oriented CPU cooling. Due to the included quick-release fastener, additional components like radiators or GPU coolers can be integrated afterwards without having to drain or rebuild the water loop.

- Water cooling set for starters & enthusiasts
- Performance-oriented water cooling with digital aRGB illumination
- Expandable without the need to empty/rebuild the water circuit
- Optimally matched components from Alphacools DIY range

Compatibility

Intel: 1056 / 1155 / 1150 / 1151 / 1200 / 1700 / 2011 / 2011-3 / 2066 / 1851

AMD: AM2 / AM2+ / AM3 / AM3+ / AM4 / AM5

Scope of delivery

- 1x Eisblock Aurora XP³ Light CPU Cooler
- 6x Fitting Eiszapfen 13/10mm G1/4"
- 2x Fitting Angled 90° HF 13/10mm G1/4"
- 1x Quick Release fitting HF kit G1/4"
- 1x Eisstation DC-LT Reservoir
- 1x DC-LT 2 pump
- 1x aRGB Controller Aurora Eiscontrol
- 1x Digital RGB LED Y-splitter 3-times cable
- 1x PWM to 2x PWM connector cable
- 1x ATX 24-pin jumper plug
- 1x NexXxoS ST30 Full Copper 240mm Radiator V.2
- 2x Eiszyklon Aurora LUX PRO Digital RGB (120x120x25mm)
- 1x Liquid Clear 1000ml
- 1x AlphaTube HF 13/10mm (3/8 "ID) - 3m
- 1x Hose cutter
- 1x Filling funnel

Technical data CPU cooler

Dimensions (L x W x H)	73 x 63 x 21mm
Material cooler	nickel-plated copper
Material housing	acrylic
Threads	2 x G1/4“
Illumination	3-Pin 5V, 9 digital aRGB LEDs
Max working temperature	60°C
Pressure tested	0,8 Bar

Technical data reservoir

Dimensions (L x W x H)	102 x 82 x 85mm
Capacity	250 ml
Material housing	nylon, PMMA
Threads	3x G1/4“ IT | 1x 3/8" IT
Illumination	4x 5mm LED
Max working temperature	60°C
Pressure tested	0,8 Bar

Technical data pump

Dimensions (L x W x H)	52 x 41 x 18mm
Material	synthetic material, ceramics
Threads	3-Pin JST
Speed	2600 rpm
Operating voltage	6-13,5V
Power consumption	3.2W
Maximum pumping head	1m
Maximum flow rate	72L/h
Max working temperature	60°C
Pressure tested	0,8 Bar

Technical data radiator

Dimensions (L x W x H)	271,5 x 124 x 30mm (+/- 3%)
Material cooling fins, pre-chambers & channels	copper
Material threads	brass
Material outer housing	stainless steel
Threads	4x G1/4" IN/OUT & 1x Fill-/Drainport G1/4"
Possible fan size	120mm
Possible fan assembly	2x one-sided / 4x both-sided
Fin density	15
Max working temperature	60°C
Pressure tested	0,8 Bar

Technical data fan

Dimensions (L x W x H)	120 x 120 x 25mm
Speed	800 - 2000 RPM (+/- 10%)
Threads	4-Pin PWM
Voltage	12V DC
Current consumption	4,8W
Static pressure	2,0 mm H2O
Max. air flow	104,49 m^3/h
Speedometer signal	yes
Illumination	3-Pin 5V, 16 digital aRGB LEDs

Technical data tube

Dimensions (outer/inner)	13/10mm
Material	PVC
Length	3m
Color	clear

Technical data 13/10mm G1/4" fittings

Material	brass
Threads	1x G1/4" OT | 1x tube connection 13/10mm
Color	black

Technical data quick release coupling

Dimensions (L x D)	60,3 x 26,1mm
Material	synthetic material
Threads	2x G1/4" IT
Color	black

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Technical data coolant

Ingredients	osmose water(93,8%), glysofor L (4,2%), RHOBA KLA (2%)
Boiling point	105°C
Freezing point	-10°C
Packaging unit	1L bottle
Color	clear (not UV-active)

Technical thermal grease

Viscosity (mPa. s)	3.000.000
Specific Gravity (g/cm³)	2,7
Thermal Conductivity (w/m-K)	16
Temperature Stability (Degree Celcius)	-50 ~ 200
Color	gray

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Manuals	11984_Alphacool_Core_Wind_240mm_ST30_water_cooling_Set_Manual(1).pdf 11984_Alphacool_Core_Wind_240mm_ST30_water_cooling_Set_Manual(2).pdf
Safety data sheets	11984_Alphacool_Core_Wind_240mm_ST30_water_cooling_Set_SDS(1).pdf 11984_Alphacool_Core_Wind_240mm_ST30_water_cooling_Set_SDS(2).pdf
Product pictures	11984_Alphacool_Core_Wind_240mm_ST30_water_cooling_Set_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_11984.pdf

Packaging dimensions per unit

L x W x H	475 x 145 x 325 mm
Weight	4540 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197119849
Customs code	84195080900

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Article text

With the Core Wind water cooling kit, Alphacool provides all the components needed to get started in the world of water cooling. The set is aimed not only at beginners, but also at enthusiasts. The selected components are optimally matched and come from Alphacool's DIY program. The choice of materials is still uncompromisingly based on copper or brass for all metals in order to guarantee performance-oriented CPU cooling. Due to the included quick-release fastener, additional components like radiators or GPU coolers can be integrated afterwards without having to drain or rebuild the water loop.

Eisblock Aurora XP³ Light CPU-Cooler

With the Eisblock Aurora XP³ Light you get a very compact CPU water cooler for all common mainstream sockets from AMD and Intel. The nickel-plated copper cooler base has an area of 56 x 56mm with cross-slot structure and 0.4 x 0.4mm thick pins through which the water can flow. Due to the extremely large cooling surface, the water can effectively absorb and dissipate heat from the cooler base. The Aurora design in conjunction with the 9 addressable digital aRGB LEDs offers many options for outstanding CPU water cooler illumination.

Eisstation DC-LT Reservoir & DC-LT 2 Pump

The Eisstation reservoir is extremely compact and flexible in use due to a variety of mounting options. Three G1/4" connections allow uncomplicated integration into the water loop. The additional G3/8" connection facilitates the filling of the reservoir. The DC-LT 2 pump is installed in the bottom of the Eisstation and is not visible from the outside. Due to its design, the pump is extremely quiet without having to sacrifice performance.

NexXxoS ST30 Full Copper 240mm Radiator V.2

All water-bearing parts and the cooling fins are made of pure copper. Thus, the NexXxoS ST30 achieves the highest thermal conductivity value of all radiators on the market and can easily dissipate extremely high waste heat. The radiator has two IN or OUT connections with G1/4" threads in the pre-chamber area. On the opposite side is a fill or vent port, which can be used to fill and drain the water loop.

Eiszyklon Aurora LUX PRO Digital RGB Fan (120x120x25mm)

The Eiszyklon Aurora LUX Pro fan offers a wide range of control as well as superior digital aRGB LED lighting. The individually controllable 5V aRGB LEDs coupled with the special design of the fan frame create unique lighting effects. The fan can be controlled from 800 to 2000 rpm via the 4-pin PWM connector. At 800 rpm, the fan is nearly silent, but still provides good airflow paired with high static pressure.

AlphaTube HF 13/10mm tubing & HF G1/4" quick connect coupling

The clear 13/10mm hose made of PVC offers comfortable handling when routing and connecting water cooling components. It has good routing and kinking characteristics and allows uncomplicated bridging of tight bend radii. The HF quick-connect coupling included in the scope of delivery allows easy integration of further components at a later date without having to drain or rebuild the water loop.

Eiszapfen 13/10mm G1/4" Connections

All the requirements for a connection are met here: Highflow, shape, machining and coloring. Special manufacturing processes firmly bond the coating to the substrate. This increases the longevity of the color and prevents the coating from flaking off.

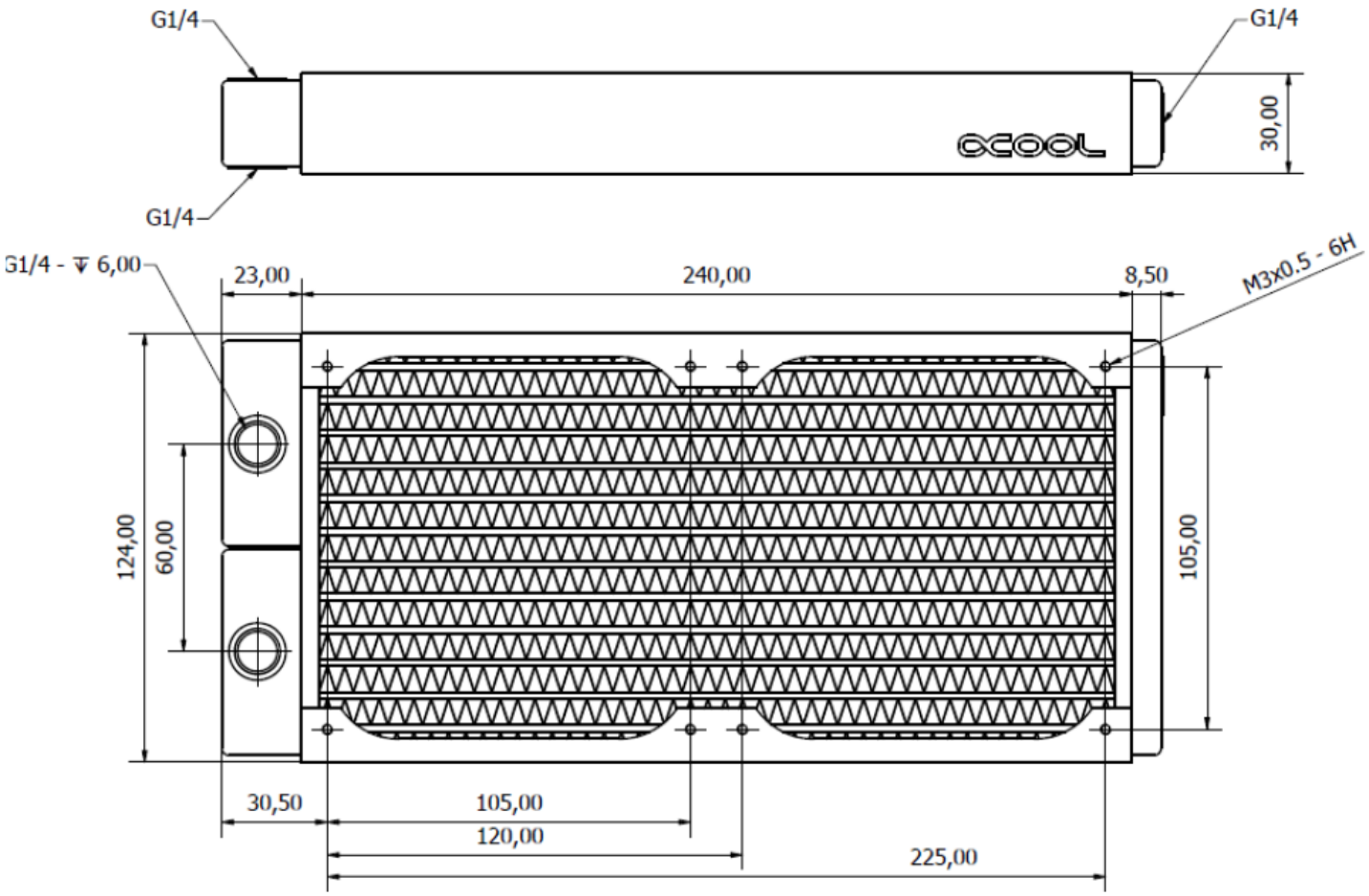
Thermal Paste & Coolant

The included thermal paste is Alphacool's Subzero with a thermal conductivity of 16 W/mk. The electrically non-conductive Thermal Grease is particularly well suited for high contact pressures, but can still be processed perfectly due to its viscosity of 850,000 TF. Tec Protect 2 Clear in the 1 liter bottle is used as the coolant. Tec Protect 2 Clear is a ready-to-use mixture that already contains all the necessary additives and can be used straight from the bottle.

aRGB Controller, Cables, Tools & Accessories

All cables (aRGB, PWM) and controllers needed to use & control the pump, fan and aRGB lighting are included. The accessory package also includes important tools like hose cutter, filling bottle and an ATX 24-pin jumper. Thus, the construction of the custom loop can be started "out-of-the-box" immediately.

Figure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