

## Alphacool HDX Apex Acryl aRGB M.2 2280 SSD Cooler

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### Quick Info

SSDs in M.2 format are becoming increasingly popular. The high transfer rates and extremely low access times allow faster and more effective working or playing on the PC. Alphacool offers the HDX Apex Acryl aRGB M.2 2280 SSD cooler so that the full performance of the M.2 2280 SSD can be used permanently. It is a useful addition to any water circuit and ensures that the M.2 SSD memory can release its full potential.

- Nickel-plated copper cooler base for optimal thermal conductivity
- Avoids overheating of the SSD and allows best possible performance
- Brilliant illumination due to 3 digital aRGB LEDs

### Compatibility

- M.2 2280 SSD

## Scope of delivery

1x Alphacool HDX Apex Acryl aRGB M.2 2280 SSD Kühler, clear  
2x 20 x 68 x 0,5mm Thermal Pad  
1x 20 x 68 x 1,5mm Thermal Pad  
1x clip

## Technical data cooler

L x W x H	67,99 x 25,6 x 16,8mm
Material cooler	nickle-plated copper
Material cooler top	acrylic
Material clip	synthetic material
Threads	2x G1/4"
Thickness cooler bottom	1,6mm
Thermal conductivity thermal pads	3 W/mK
Illumination	digital aRGB LEDs
Power connector digital aRGB LEDs	3-Pin JST
Power digital aRGB LEDs	5V
Number of digital aRGB LEDs	3
Pressure tested	0,8 Bar
Maximum working temperature	60°C
Weight	43g
Color	clear

## Download links

Manual	<a href="#">11969_Alphacool_HDX_Apex_Acryl_aRGB_M.2_2280_SSD_Cooler_Manual.pdf</a>
Product pictures	<a href="#">11969_Alphacool_HDX_Apex_Acryl_aRGB_M.2_2280_SSD_Cooler_pics.zip</a>

## Packaging dimensions per unit

L x W x H	100 x 70 x 35 mm
Weight	86 g

## Other data

Certificates	CE, FC, ROHS
EAN	4250197119696
Customs code	84195080900

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### **Why an active M.2 cooler?**

Due to their design, M.2 SSDs are only able to deliver their maximum performance for a short time. The controller chip heats up extremely quickly and begins to throttle the performance of the M.2 SSD at an early stage in order to avoid overheating. Independent tests have shown that during write operations, the transfer rates of uncooled M.2 SSDs can drop after just 30 seconds. With read processes, the throttling usually occurs a few seconds later. With the Alphacool HDX Apex Acryl aRGB M.2 2280 SSD cooler, the maximum performance of the SSD can be used over a significantly longer period of time. This is clearly noticeable during longer read and write processes.

### **Mounting**

The HDX Apex Acryl aRGB cooler is compatible with M.2 2280 SSDs that are mounted on one or both sides. If the PCB is populated with memory chips on both sides, the 0.5mm heat conduction pad is used on both sides. If memory chips are only installed on one side, then the 1.5mm heat conduction pad is used on the side without chips. Once the top and bottom of the SSD have been fitted with thermal pads, the SSD memory is pushed into the retaining clip and mounted under the cooler. The installation on the mainboard is then carried out as usual. The cooler can now be integrated into the water circuit using the existing G1/4" connections.

### **Copper instead of aluminium!**

Alphacool only uses copper in its water coolers. The reason is simple: copper has almost twice the thermal conductivity of aluminium and is therefore the obviously better choice of material for a water cooler.

### **Brilliant lighting**

The cooler is equipped with 3 digitally addressable 5V RGB LEDs, which create a unique, very noble-looking illumination. The Digital aRGB LED illumination is connected via a JST 3-pin connector. To control the aRGB lighting, the cooler must be connected to a digital RGB controller or a digital RGB-capable mainboard with the aid of an adapter. The remaining 3-pin male connector can be used to connect additional digital RGB LEDs.

