Download Center

Alphacool Core DDCzero Flat Reservoir 90 with Pump

Alphacool article number: 14567



Quick Info

The Alphacool Core DDCzero Flat Reservoirs combine a compact reservoir with the powerful Alphacool DDCzero PWM pump. Thanks to their flat design, they are particularly well suited for small-form-factor systems. The series is available in various sizes, allowing flexible adaptation to different case layouts and cooling concepts.

- Acrylic Reservoirs
- Includes Core DDCzero PWM pump
- Low-profile design, ideal for small-form-factor systems
- Stunning digital aRGB lighting

Scope of delivery

1x Alphacool Core DDCzero Flat Reservoir 90
1x Alphacool Core DDCzero 3300-4800rpm PWM Pump
1x Alphacool Core universal bracket set for DDCzero reservoir
3x G1/4 Plug
1x Plug Tool
1x aRGB Adapter

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

Technical data

Dimensions (L x W x H) (in mm)	93,00 x 63,00 x 44,10
Material base	Acetal
Material top	Acryl
Number of connections	5x
Material connection thread	Acetal
Threads	G 1/4
Maximum torque G1/4 thread (in Nm)	1,00
Maximum torque M2 thread (in Nm)	0,13
Maximum torque M2,5 thread (in Nm)	0,27
Maximum torque M3 thread (in Nm)	0,48
Maximum torque M4 thread (in Nm)	1,12
Maximum operating temperature (in °C)	60
Minimum operating temperature (in °C)	-20
Maximum tested pressure (in bar)	2,00
Recommended working pressure (in bar)	0,0 - 1,0
Maximum filling volume (in ml)	26
LED quantity and length	5pc. / 81,00mm
LED Voltage	5V DC
LED Ampere	0,06A
LED Power	1,5W
LED Cable lengths (in cm)	38

Technical data pump

Dimensions (D x H)	46,00 x 24,20mm
Material pump housing	Plastic
Material pump cover	Plastic
Material axle	Ceramic
Connections	4-Pin PWM
Power	6,2W
Rotational speed	3000 - 4800 RPM
Cable lengths	4-Pin PWM - 48cm
Operating voltage	8-13V DC / 14W IP32
Starting voltage	12V DC
Maximum pumping head	1,4m
Maximum flow rate	220L/h
Maximum working temperature	60°C
Weight	50g
Color	Black

Download links

Manual	14567_Alphacool_Core_DDCzero_Flat_Reservoir_90_with_Pump_Manual.pdf
Product pictures	14567_Alphacool_Core_DDCzero_Flat_Reservoir_90_with_Pump_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_14567.pdf

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

Packaging dimensions per unit

L x W x H	265 x 140 x 70 mm
Weight	575 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197145671
Customs code	84733080000
Guarantee	3 years

Article text

The Alphacool Core DDCzero Flat Reservoirs combine a compact reservoir with the powerful Alphacool DDCzero PWM pump. Thanks to their flat design, they are particularly well suited for small-form-factor systems. The series is available in various sizes, allowing flexible adaptation to different case layouts and cooling concepts.

The base of the Core DDCzero Flat Reservoirs is made of durable acetal. The transparent top is manufactured from high-quality acrylic and provides an unobstructed view inside the reservoir.

The G1/4" connection threads are integrated directly into the robust acetal base. This avoids delicate threads in the acrylic and ensures a stable and reliable connection. Five G1/4" ports provide numerous options for integrating the reservoir into the cooling loop. The inlet, outlet, filling and draining ports can be flexibly adapted to the tubing layout of the respective cooling system.

The integrated digitally addressable aRGB lighting effectively highlights the coolant and provides even illumination throughout the reservoir. The lighting can be controlled via a compatible digital aRGB header on the motherboard or a suitable aRGB controller (Art.-No. 15360).

The clean, linear design and the carefully considered positioning of the ports integrate seamlessly into the Alphacool Core series.

The 90 variant is the most compact model in the series. Thanks to its small dimensions, it is particularly suitable for small cases and systems with severely limited installation space.

The integrated Alphacool DDCzero PWM pump is a compact and powerful circulation pump for PC water-cooling systems, datacenter systems and industrial applications. A robust ceramic shaft, combined with the durable plastic housing, ensures reliable and long-lasting operation. The pump offers strong performance and ensures a dependable coolant flow. Its speed can be flexibly adjusted across a wide control range to meet the individual requirements of the system.

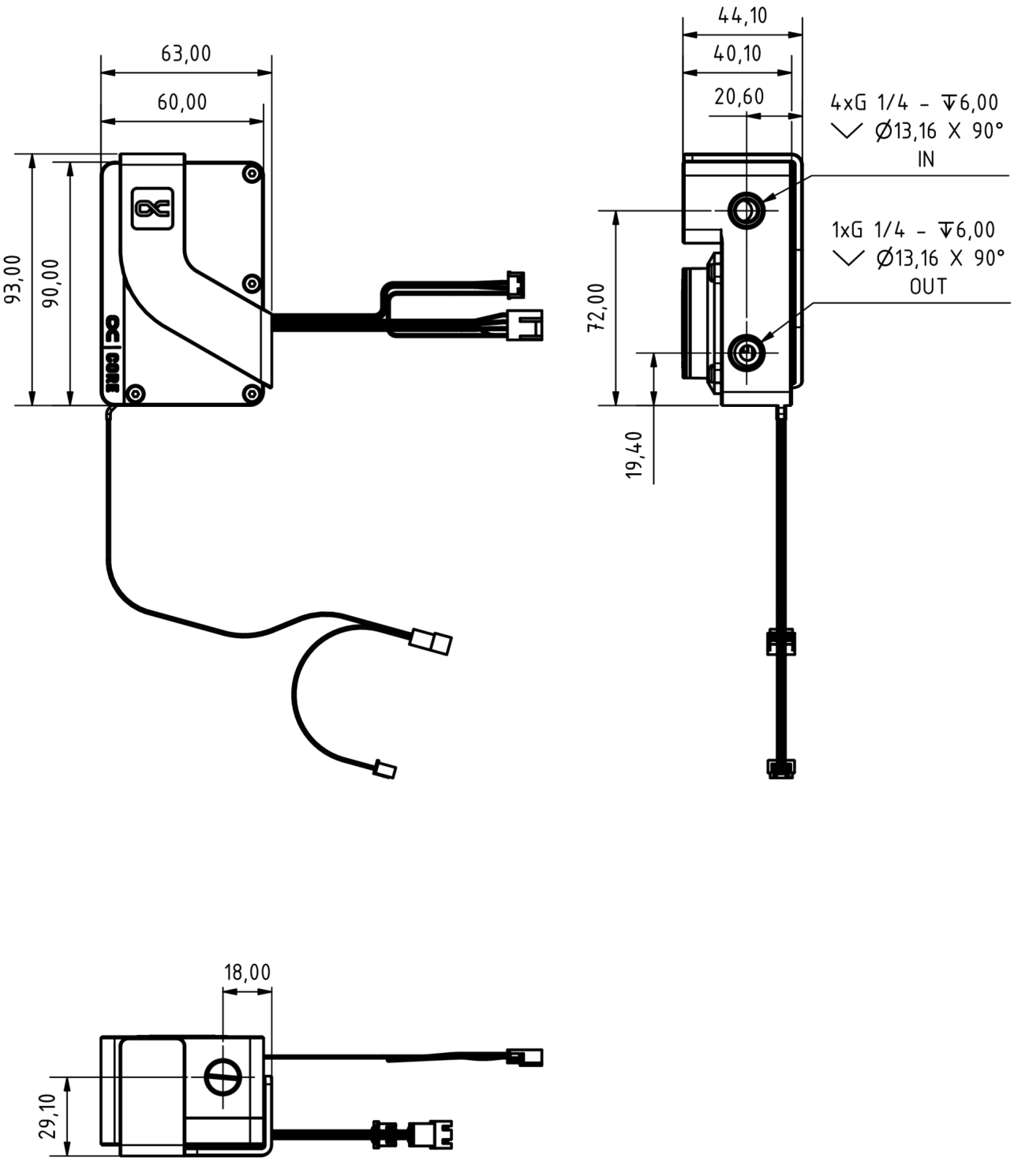
The Alphacool DDCzero PWM pump is connected to the motherboard or a suitable controller via a 4-pin fan connector. This connector supplies power to the pump, enables PWM control and transmits the speed signal. PWM control allows the pump performance to be adjusted specifically to the current system load. This enables a balanced operation between high cooling performance and the lowest possible noise level.

The Alphacool Core Universal Mounting Kit is included in the scope of delivery. It enables easy installation and securely holds the Core DDCzero Flat Reservoirs on radiators or fan mounting positions in the **120 mm format**. Using the Alphacool Core Universal Mounting Kit, the reservoirs can be installed in two different orientations: straight or rotated by 90°.

Compatibility

The Alphacool DDCzero pump tops and reservoirs are exclusively compatible with the Alphacool Core DDCzero PWM pump. Standard DDC pumps cannot be used due to their larger dimensions.

Figure



General tolerance: ± 0,25mm
Dimension in millimeter