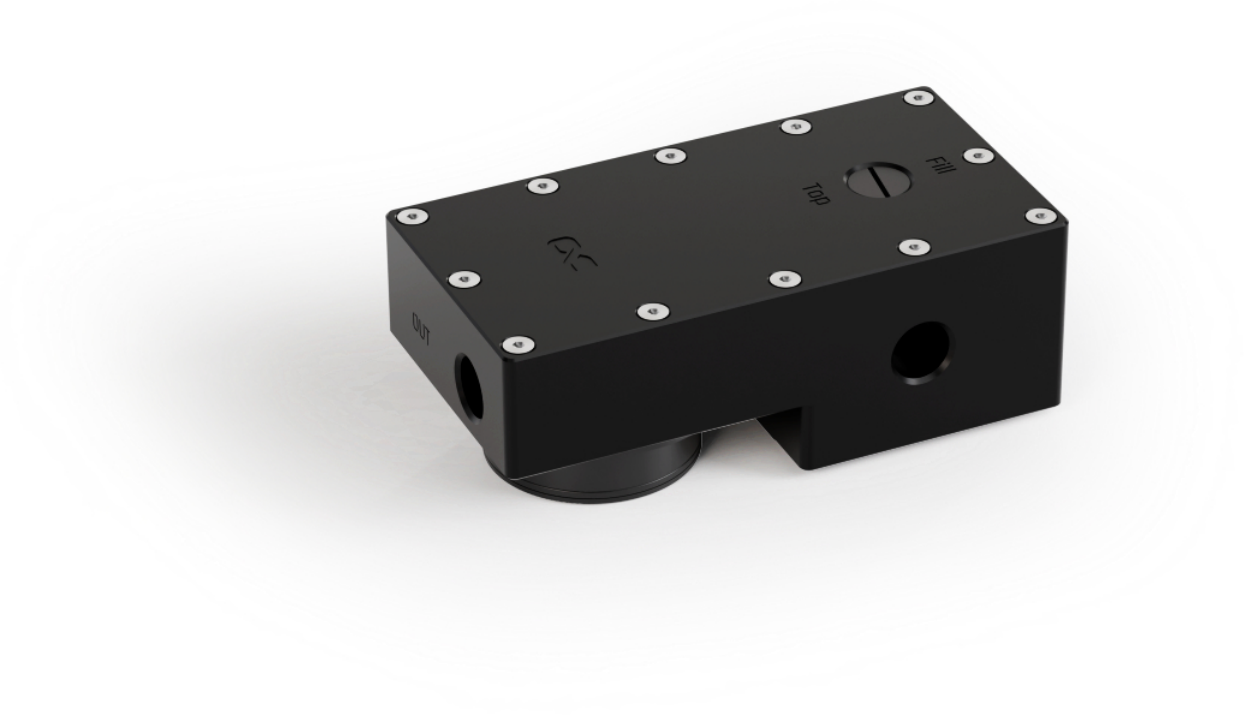
V. 1.004 // 09.2026

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Alphacool ES Reservoir DDCzero 1U with Pump

Alphacool article number: 14571



Quick Info

The Alphacool ES Reservoir DDCzero 1U with Pump combines a compact reservoir with the powerful Alphacool DDCzero PWM pump. Its low-profile design has been specifically developed for installation in 1U server systems. This makes the pump-reservoir combination particularly suitable for server, datacenter and industrial cooling solutions.

- 1U height, ideal for systems with very limited space
- Reservoir made of durable acetal
- Includes Core DDCzero PWM pump
- 5x G 1/4 connections

Scope of delivery

1x Alphacool ES Reservoir DDCzero 1U
1x Alphacool Core DDCzero 3300-4800rpm PWM Pump
3x G1/4 Plug
4x M3 x 10mm Screw
1x Pump ring
1x Non-slip rubber pad

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)	112,00 x 57,00 x 41,95
Material base	Acetal
Material top	Acetal
Number of connections	5x
Material connection thread	Acetal
Threads	G 1/4
Maximum torque G1/4 thread (in Nm)	1,00
Maximum torque M3 thread (in Nm)	0,48
Maximum operating temperature (in °C)	60
Minimum operating temperature (in °C)	-20
Maximum tested pressure (in bar)	4,00
Recommended working pressure (in bar)	0,0 - 2,0
Maximum filling volume (in ml)	54

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

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Manual	14571_Alphacool_ES_Reservoir_DDCzero_1U_with_Pump_Manual.pdf
Product pictures	14571_Alphacool_ES_Reservoir_DDCzero_1U_with_Pump_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_14571.pdf

Packaging dimensions per unit

L x W x H	265 x 140 x 70 mm
Weight	500 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197145718
Customs code	84733080000

Article text

The Alphacool ES Reservoir DDCzero 1U with Pump combines a compact reservoir with the powerful Alphacool DDCzero PWM pump. Its low-profile design has been specifically developed for installation in 1U server systems and other water-cooling applications with severely limited installation space. This makes the pump-reservoir combination particularly suitable for server, datacenter and industrial cooling solutions.

Despite its compact dimensions, the reservoir provides sufficient filling volume for reliable operation in demanding cooling loops. Five G1/4" ports offer multiple options for integrating the unit into the cooling system.

The base and top of the Alphacool ES Reservoir DDCzero 1U are made entirely of durable acetal. The G1/4" connection threads are also integrated directly into the robust material, ensuring stable and reliable fitting connections. The solid construction is designed to meet the requirements of professional server and industrial environments.

With a height of less than 42 mm, the pump-reservoir combination can be integrated into compact 1U systems. The reservoir has been tested at pressures of up to 4 bar and is designed for an operating pressure of up to 2 bar. This makes it suitable for demanding cooling systems in which a robust and reliable construction is essential.

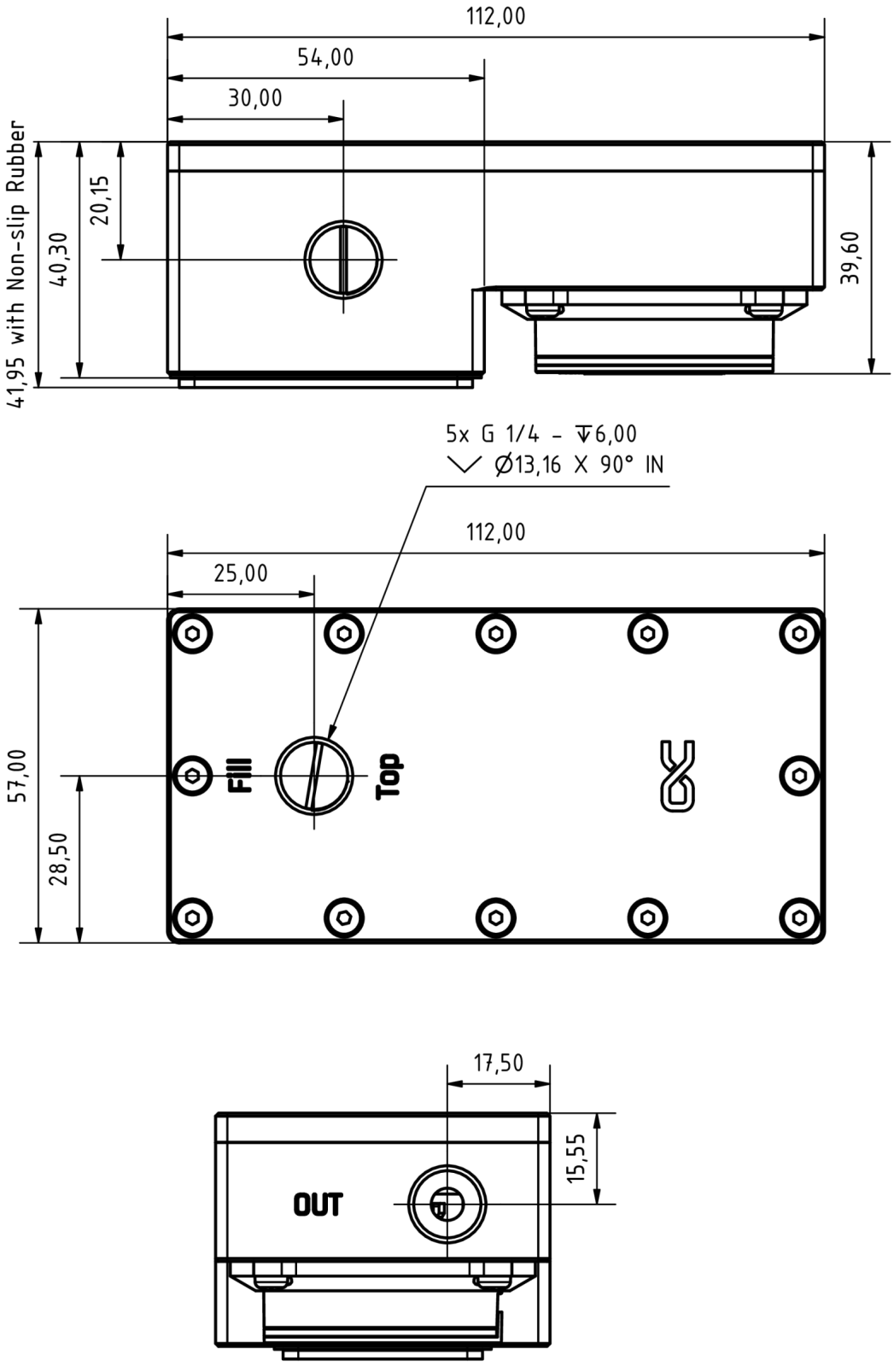
The integrated Alphacool DDCzero PWM pump is a compact and powerful circulation pump for PC water-cooling systems, datacenter systems and industrial applications. A robust ceramic shaft, combined with the durable plastic housing, ensures reliable and long-lasting operation. The pump offers high delivery performance and ensures a reliable coolant flow. Its speed can be flexibly adjusted across a wide control range to meet the specific 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 ES Reservoir DDCzero 1U with Pump combines a compact form factor, flexible connection options and reliable pump performance in one robust unit. It is therefore an ideal solution for professional 1U server systems, datacenter installations and other space-constrained liquid-cooling applications.

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