

Alphacool ES Laing DDC310 Pump - Single black plastic bottom

Alphacool article number: 13991



Quick Info

The Alphacool ES Solution Laing DDC310 pump serves as the foundation for various 1 to 4U server solutions from Alphacool. The unit is based around the very popular Alphacool DDC pump and has been coupled with a simple pump base to maintain compatibility with various Enterprise Solution reservoirs.

- Spherical bearing
- Maintenance-free pump
- Compact and powerful

Scope of delivery

1x ES DDC310 Pump, black
1x O-Ring
1x Plastic bottom for direct mounting

Technical data

Dimensions (L x W x H)	62 x 62 x 30mm
Material	Stainless steel, Carbon (FH821Z2), Ceramic (Al2O3 99,5%), Luranyl KR 2403 GW T4 (PPE+PS) , Fortron 1140L4 (PPS)
Weight	170g
Speed	3250 rpm
Max power consumption	8W
Voltage	12V DC
Power connector	4-Pin Molex
PWM control	n/a
Tacho-Signal	yes (3-Pin Molex)
Max. working temperature ambiente	10°C - 50°C
Max. working temperature water	10°C - 60°C
Max. head of pump	2,28m
Max. flow	200 l/h
Max. Pressure [bar]	0,2
Color	black
Revision	DDC4.CF-XTXXWX-01 BP54

Download links

Product pictures	13991_Alphacool_ES_Laing_DDC310_Pump_-_Single_black_plastic_bottom_pics.zip
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Packaging dimensions per unit

L x W x H	75 x 75 x 45 mm
Weight	331 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197139915
Customs code	84137081900
Guarantee	5 years

Article text

The Alphacool ES Solution Laing DDC310 pump serves as the foundation for various 1 to 4U server solutions from Alphacool. The unit is based around the very popular Alphacool DDC pump and has been coupled with a simple pump base to maintain compatibility with various Enterprise Solution reservoirs.

Compact and powerful.

The flat design of the Laing DDC310 pump saves space and fits with the corresponding Enterprise reservoirs from chassis as small as a 1U server rack. This results in a very powerful pump that can be used in the smallest of spaces. The DDC310 variant offers with a delivery height of 2.44m enough power to operate an extensive water loop. The performance is enough to operate a dual or quad socket system including reservoir and radiators. The performance of the pump is also sufficient to operate a render server with up to 4 graphics cards.

Spherical Ceramic Bearing

The pump uses a shaftless ball motor or spherical bearing. The motor is driven by magnets while the rotor is mounted on a ball-ceramic bearing. This makes the pump maintenance-free, as the bearing is self-adjusting and maintenance-free. The pump is lubricated by the coolant during operation. This makes the Alphacool ES Solution Laing DDC310 pump a so-called wet rotor pump. Due to its design, even small particles of dirt are no problem for the pump.

Installation and Commissioning

The pump is delivered with a classic plastic bottom which ensures a high compatibility to all Enterprise Solution products. However, the pump can also be mounted on all existing DDC pump tops from Alphacool. The pump comes with a corresponding O-ring, only the mounting screws must be used from the respective reservoir, as these may differ in length. The power is supplied via a 4-pin Molex connector, the speed can be read out via a 3-pin Molex connector. This is usually done via the 3-pin fan connector on the mainboard or via an appropriate fan controller.

Drawing

Performance Curves

