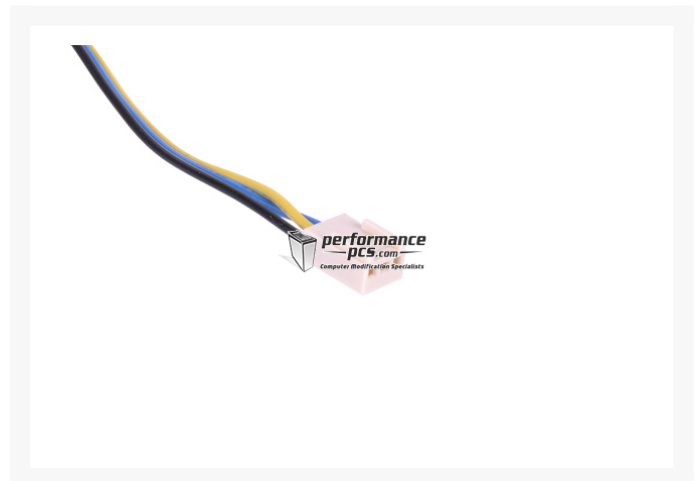




# Laing DDC Pump 12V DDC 3.25 18W

\$69.50

## Product Images



## Description

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This pump is the first pump worldwide which is used in mass-produced water cooled workstations and is ideal for the water cooling of processors and electronic components. Due to its compact size and its power it can be used for many applications.

This DC pump is an electronically commuted ball motor pump with an estimated lifespan of more than 50.000hrs at 12V. The only moving part on the pump is the spherically shaped Rotor unit which is sitting on an ultra-hard, wear-resistant ceramics bearing ball.

A conventional shaft with bearings and seals is not used or needed. The spherical bearing of the rotor unit on the ceramics bearing ball has many advantages: The development of bearing clearance is technically impossible which results in the impossibility of noise level increase over the lifespan of the pump. The bearing is self-adjusting, making the pump consistently quiet in operation over the full lifespan. The pump is directly lubricated by the coolant (wet-running pump). Therefore no maintenance is required. As the rotor is magnetically held in place even small dirt particles pose no problem for the mechanism, a blocking of the pump is not possible under normal operating conditions. Even after a long period of standstill reliable operation is ensured. The permanent magnetic rotor unit is driven frictionless by a magnetic field which is produced by the surrounding stator.

The stator is completely built around the rotor, therefore the pump is with its 38mm only slightly higher than the stator unit. It therefore fits in almost any PC case, may it be Super tower or Barebone. A separate magnetic shielding is usually not required. The ball motor principle allows powerful yet power-saving operation. The pump can be regulated by power variations of the DC operating voltage over a wide range. All parts in touch with the coolant are completely corrosion free.

## Features

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Technical details:

Dimensions (WxDxH): 90x62x38mm

Motor: Electronically commuted ball bearing motor

Nominal voltage: 12V DC

Nominal power consumption: 18W

Certified voltage: 6 to 13,2

Pressure head at 12V: 5,7m

Maximum flow rate: >900l/h

Coolant: Water /Glycol/Glycol mixtures

Maximum system temperature: 60°C

Materials in contact with the coolant: Stainless steel 1.4571, PPS-GF40, EPDM O-Rings, Aluminium oxide, hard coal

Fittings: 2x 3/8" barbed fittings (For hoses with an outer diameter of 10mm and 8mm inner diameter)

## Specifications

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Extent of delivery:

Laing DDC pump 12V DDC 3.25 18W

Speed signal: With 3-Pin Molex connector as speed signal output (for Mianboard or fan controller connection)

Note: This pump is the latest revision

IMPORTANT: We recommend using lubricating coolants (e.g. AT Protect Plus or Innovatek Protect). We do not recommend Anti-Corro-Fluid.

IMPORTANT: Due to the performance of this pump, it should only be operated in a cooling loop with at least one water block. When running without load the pump may destroy itself.

Important: The Laing pump's electronics are not waterproof. Please make sure that the electronic components do not come in contact with water during installation or when working on the pump. When replacing the top always ensure a proper fit of the O-ring seal and avoid spills when filling the Laing reservoir. Damages due to water in the electronic components are not replaced by Laing!

Why are there Swiftech and Laing Versions? Are they different?

The question can be answered quickly: No! Here an explanation: Lain produces all pumps in Hungary. They are just labelled differently for Overseas markets and the European market. The pumps themselves are therefore exactly identical. The overseas version has Swiftech as a distributor and the European version is neutrally black. The cheaper Swiftech pumps are usually shipped with decouplers, the Laing pumps usually not. The power, pressure head, flow rates. etc. are exactly the same.

## Additional Information

Brand	Alphacool
SKU	AC-49119
Weight	2.0000
Color	Black
Pump Type	DDC
Pump Voltage	12 VDC
Vendor SKU/EAN	4049469149673

