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Alphacool ES Big Inline particle filter 2x G1/4" IG

Alphacool article number: 29145

Quick Info

The ES Big Inline 2x G1/4" IT particle filter from Alphacool's Enterprise Solutions series can be integrated into a cooling loop and enables filtering of harmful particles that can find its way into the system. Thanks to the Big Inline Particle Filter, damage to the pump and other components due to contamination is virtually eliminated.

- Filters possible impurities in the cooling liquid
- Wide range of connection options thanks to G1/2" or G1/4" thread
- Variable positioning in the server housing possible

Scope of delivery

1x Alphacool ES Big Inline particle filter 2x G1/4" IG
2x screw adapter G1/2" to G1/4
1x seal for acrylic cylinder

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Technical data

Dimensions (L x W x H)	95,00 x 69,00 x 122,00 mm
Material	Synthetic material, acrylic
Material (Sieve filter)	Stainless steel
Weight	201 g
Maximum operating temperature	60 °C
Maximum pressure	max. 150 PSI / 10 Bar
Threads	2x G1/2" (with enclosed adapters to 2x G1/4")
usable thread length	max. 11 mm for G1/2" | max. 5.5 mm for G1/4"
Color	black/transparent

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Product pictures	29145_Alphacool_ES_Big_Inline_particle_filter_2x_G1-4_IG_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_29145.pdf

Packaging dimensions per unit

L x W x H	145 x 11 x 85 mm
Weight	285 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197135696
Customs code	84212100900
Guarantee	2 years

Article text

The ES Big Inline 2x G1/4" IT particle filter from Alphacool's Enterprise Solutions series can be integrated into a cooling loop and enables filtering of harmful particles that can find its way into the system. Thanks to the Big Inline Particle Filter, damage to the pump and other components due to contamination is virtually eliminated.

Use

As long as there is available space, the ES Big Inline particle filter is able to sit at any position in the server housing, as long as it can sit vertically. The filter may only be used standing upright on the acrylic cylinder and with the IN/OUT connections on top. Horizontal positioning is not possible!

Connection options

The particle filter is equipped with 2x G1/2" connections (In/Out). Additional adapters are included in the scope of delivery. These allow the filter to be easily converted to 2x G1/4" connections by means of a hexagonal spanner.

Function

Due to the large surface area of the screen filter, the flow velocity of the coolant inside the particle filter decreases considerably and suspended particles can slowly settle to the bottom. However, the lowering of the flow velocity within the filter has no detrimental effect on the general flow of the water cooling loop.

Maintenance

The particle filter has a crystal-clear acrylic cylinder, which is used to collect suspended matter and provides a visual check on the state of contamination. The large volume of the cylinder and the resulting absorption capacity of dirt particles considerably extends the maintenance intervals. When installing the ES Inline particle filter, a ball valve can be placed in front of the IN connection and behind the OUT connection. This makes it much easier to remove the particle filter for maintenance (cleaning).

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