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D5 pump vs ddc 26 2017 16:59 There are several types of pumps, but they are usually divided into two parts. D5 and DDC. In addition, since the end of 2016, the EC has introduced a new SPC pump. D5 and DDC have not had major design changes in a long time. The biggest improvement is PWM compatibility, which allowed fan speed control on the motherboard. You can also define pump types with D5 and DDC, while other companies (competitors) have tried different things. I change the pump design a little and can just put the logo on it. EC Waterbuck offers a world-known ® to sell quality and reliable products. Now, let's explain the characteristics and differences between the two types of pumps. (left) Equipped with acrylic top with EC-XTOP DDC 3.2 PWM Elite pump. (Woo) (Woo) EC-D5 PWM G2 engine a la carte. The bead pressure value is measured by hanging the hose to see how high the coolant can raise.* Chickenpox pressure: The value used instead of it indicates the positional energy that the water level of stationary water. In the hydropoure pressure unit using m or mm, and represented as Aq (aqua) as a water order symbol, and because the standard barometric pressure is measured to have a hydropox pressure of about 10m, the hydroponic pressure is shown as 10m or 10mAg, it is 10mAg = 1kgf /. Hydrodus pressure is used as a pressure unit in the year of ventilation pressure when representing the pressure of the hot water boiler. - Fragments of naver knowledge back - D5 motor pump has a simple structure. The only moving part is the driver of the hengu shape. The rolling impeller is a very solid, durable ceramic bearing. The impeller is a permanent magnet powered by a yelstone coil placed under a metal casing. The principle of operation of the force between a permanent magnet and a tim root. Magnetic rotors are always balanced using ceramic bearings. The pump is stable and the open area of the coolant is against pollution, making maintenance easy. DDC pumps are the world's first water-cooled pumps that are massively made. Due to its small size and high performance, it is loved by many water cooling system enthusiasts, EC EC-DDC 3.2 PWM pump flow rate is up to 1000 litres per hour at hydropsased smallpox pressure of 5.2 m, while the EC-DDC 3.25 model is 7m. It acts like an engine. The only moving part is a hemetic impeller, and the impeller is very difficult to use ceramic bearing to become loose and rattle). The rotor of the DDC pump is magnetically fixed by design, so the pollutants do not penetrate. Both types of pumps have a wet rotor design that lubricates with a cold coolant and should not be operated without coolant. In addition, the coolant must be less than 60 °C. Both pumps are compatible with a wide range of accessories called the top of the pump or pump housings. Custom D5 pump tops and DDC pump tops are usually produced by acetal and acrylic. This accessory improves convenience and coolness and improves performance. The accessory is arranged with G1/4 amnasababa, which allows to install any fastening. To learn more about fittings, check out our accessories and pipe guide postings. Please note that the D5 and DDC pumps and pump towers have a fixed water supply and water supply and bucket assemblies and, for example, product accessories and pumps with two pump fasteners change. To learn more about pump bucket purchase orders, see Pump bucket set and buy separately post. Another thing to do is a dual pump and a dual bay bucket. If you use two pumps in one system, the flow rate and performance can increase and cause noise. Another advantage of dual pumps is reliability, Pumps, especially the D5 model, fail badly, providing stability to workstations or servers with long computer lifespans. By comparing the size of D5 and DDC pumps with a 120mm Vardar fan, the D5 pump can produce higher flow rates at lower pressure and DDC at lower flow rate but higher pressure. In addition, small DDC pumps can be more noisy than D5 pumps. Due to the small size of DDC, there may be heat production, so it is recommended to have an additional pump heatsink. Heatsink assembly is not required, but it can extend the life of the pump. If the system you are creating has many right angled water sources and a large number of water blocks, a high pressure pump will be an advantage. If you think about the small form factor PC, the DDC pump will be an advantage. Wherever you go, the D5 pump has blogName:TTORY..,blogId:ttorysystems,logNo:221037920076,smartEd itorVersion:3,meDisplay:true,lineDisplay:tru Watercooling > There are quite a number of pump types on the market, but most users prefer between the two most popular pumps: D5 and DDC. In 2016 we have also introduced an SPC pump, but we will do an in-depth comparison in one of the following articles. Our support is usually bombarded with questions about the differences between D5 and DDC. Both D5 and DDC pumps have a pretty old base design and none of the two have gone through some major changes. It's like you can't reinvent the wheel. The only big change that we could see over the years is that both D5 and DDC pumps got PWM support. This means that they are now depicted with a sophisticated way to control your speed. If you are fresh on the subject and want to learn more about PWM, just peek at our What is PWM and DDC labels determine the base design of the pump, there are many versions available. There are some counterfeits in the market, some companies make small changes to the pump design, while others just slam their brand labels for it. EC Water Blocks are at the time offering world fame Xylem® water pumps to its customers, so you don't have to worry about the guality or authenticity of our D5 or DDC pumps. Now let's start with the basics and the main differences between these two types of pumps. On the left is the EC-XTOP DDC 3.2 PWM Elite pump with Plexi top included, on the right side is the EK-D5 PWM G2 Motor alone. The D5 is more massive, it takes up twice as much space as DDC. The D5 pump offers a maximum theoretical flow rate of 1500 litres per hour with a maximum head pressure of 3.9 m, EC-D5 PWM G2 Motor can be controlled with PWM. Head pressure in the pumps is determined by a simple test - hanging the hose vertically and measuring at what height the liquid can be pumped. D5 spherical motor pump. The main design of the D5 spherical motorsuction pump is its simplicity. The only moving part of the spherical motor is the hemispherical impeller device (rotor) on a particularly rigid and abrasive ceramic bearing ball. The rotor itself contains a permanent magnet driven by an electromagnetic (stator). D5 spherical motor pump with its hemisphere pram removed. The magnetic rotor always balances itself perfectly on the ceramic bearing. The pump is highly durable and corrosion, which ensures an extremely long service life. The DDC pump is probably the world's first pump used for mass-resusorption of liquids on workstations. Due to its small size and large output, the DDC pump will easily find its way into the hands of liquid coolers. The DDC pump operates on the same simple spherical engine principle as the D5 unit. The only moving part is a spherical-shaped permanent magnet propulsion rotor that sits on a wear-resistant ceramic bearing ball and overall design prevent the emergence of a bearing game (also applies to D5 design). Since the rotor DDC pump is also magnetically held in the specified position, small particles of dirt and maintenance are not a problem. DDC spherical motor pump with its impeller removed. Both pumps, D5 and DDC are water lubricated. In other words, they use a damp rotor design. Therefore, it is highly recommended not to run any of these pumps dry. Also, both types of pumps must have fluid circulating through them with temperatures below 60°C. D5 and DDC pumps with their corresponding upper parts of the pump tops are usually made of accessories, the so-called pump tops and DDC pump tops are usually made of accessories, the so-called pump tops and DDC pumps with their corresponding upper parts of the pump tops are usually made of accessories, the so-called pump tops are usually made of accessories, the so-called pump tops are usually made of accessories. These parts create additional elasticity and aesthetics on the pump itself, but can also positively affect performance. D5 and DDC pumps mounted with ECWB pump tops. These pump add-ons are female G1/4 threads, which means you can choose any assembly you want. If you want more information about accessories, we recommend you check out our Accessories and Pipes Guide blog post. It is very important to point out that both the D5 and DDC pump and pump tops are pre-intake and outlet slots that must be observed so that your liquid cooling loop works properly. Examples of pump and reservoir combo units, and dual pump mounts. The list of combinations and additional details is quite a topic in itself. There are various reservoir combo options for these pumps and we won't talk too much about them at this point. If you are interested in this topic, we recommend you visit the blog post Do I pump the reservoir combo or should I buy it separately?. The only two things is the top of the dual pump and the dual bay reservoir. Having two pumps in one cooling loop can increase flow speed and performance noise. The second reason why some relate to using dual pumps is safety, because a replacement pump is always welcome. Pumps rarely malfunction, especially in the D5 model, but not everyone uses liquid cooling on a part-time gaming platform. When it comes to serious workstations or servers that have an extra pump is never a bad idea. 120mm Vardar fan along the D5 and DDC pump size for comparison. As always, we save the most important thing lately, just to keep you reading. Are we naughty? We have designed the foundations for D5 and DDC pumps. D5 can offer higher flow rates at lower pressure, while DDC has higher pressure, while DDC has higher pressure, while DDC has higher pressure but lower flow rates at lower pressure, while DDC has higher pressure but lower flow rates at lower pressure, while DDC has higher pressure but lower flow rates at lower pressure, while DDC has higher pressure but lower flow rates at lower pressure, while DDC has higher pressure but lower flow rates at lower pressure. These heatsinks are not necessary, but it is something that could reduce wear and extend the pump's life. If you create a complex loop with many angled adapters and several water blocks, the pump at high pressure will have an advantage. If you are creating a small form factor for a PC with limited space, again, DDC would be a smarter choice. The absolute all-rounder could be pwm version D5. It has a high flow rate and it runs cool and quiet. In most cases, one D5 can function for several years without breaking the sweat. Sweat,