

Top 10 best phone cooling fan models of 2023

Heat dissipation on the phone plays a very important and necessary role. To quickly and effectively lower the temperature, you need to use a phone cooling fan.

When electricity operates at high performance for a long time, it often causes overheating. Therefore, heat dissipation on the phone is very important and necessary. In particular, the best method to lower the phone temperature is to use a cooling fan. In this article, TipsMake will introduce to you the 10 best phone cooling fan models today.

What is a heatsink on a phone?

A **phone heatsink** is a type of device used to lower the phone's temperature. Normally, phone manufacturers always integrate cool technology in their products. Because phones are certainly improving in terms of configuration, the amount of heat generated will increase.

Today's phone products are very smartly designed with very strong configuration and performance. There are even phones that are more powerful than an older laptop or PC. Therefore, if the phone is not equipped with a cooling system, it will easily lead to components being damaged due to high temperatures. At the same time, this prolonged condition also significantly reduces the life of the phone and worse can cause a fire or explosion.

Picture 1 of Top 10 best phone cooling fan models of 2023

Heat dissipation mechanism on the phone

Battery and heat are the biggest obstacles to using more powerful phone processors. Currently, most mobile phones are designed in block form. This design prevents heat from escaping, making phone heat dissipation much more difficult than other devices.

Among them, the most common way to dissipate heat for phones is to integrate a mechanism to automatically reduce the clock speed when the device heats up into the processor. This helps cool the chip and cool down the phone. In case the heat exceeds the phone's safety threshold, the automatic disconnection mechanism will be activated to ensure user safety.

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Effect of phone cooling fan

The main function of the heatsink is **to cool the phone device** . If a cooling system is not equipped, high heat levels can cause damage to internal devices and reduce the life of the machine. In many cases, it can even lead to extremely dangerous fire and explosion situations.

Heat dissipation products were created to reduce heat or cool electronic devices that operate at high performance for long periods of time. This is to improve longevity, durability and prevent possible problems. Thanks to the cooling system, users can comfortably play many high-configuration games or perform heavy tasks without having to worry about the device overheating, freezing or lagging.

Is it good to use a phone cooling fan?

A phone **cooling fan system** is extremely necessary for your phone, because:

1. Phones are devices that often have to handle multi-tasking or are frequently used to play high-configuration games such as PUBG, Wild Rift, etc. These activities will generate a very high amount of heat and can affect the phone's processing performance and leads to freezing, jerking, lag, etc.
2. When the device's temperature is too high, the components inside the device will be damaged, leading to software and hardware errors.
3. When the phone's temperature reaches a high level, exceeding the safety threshold, a fire or explosion can easily occur, which is very dangerous for the user.
4. The phone's cooling fan will help prolong the battery's life, thereby also increasing the lifespan and durability of the phone.

Picture 3 of Top 10 best phone cooling fan models of 2023

Why is heat dissipation important?

Nowadays, most people use mobile phones to serve their lives and work. Phones can almost perform many of the same tasks as on computers. Besides, video games and entertainment applications on phones are also designed with higher graphics.

And to smoothly handle these applications and games, phones are increasingly upgraded in configuration. This leads to more heat generated during operation. If not resolved promptly, it can lead to damage to the phone or injury to the user. Therefore, the issue of phone heat dissipation is very important and always receives a lot of attention from manufacturers and users.

Picture 4 of Top 10 best phone cooling fan models of 2023

Distinguish between active heat sink and passive heat sink

Currently, there are two heat dissipation methods on the market: active heat dissipation and passive heat dissipation. Each method has a different operating principle.

Active heat dissipation

Active heat dissipation is a method that has been used for a long time. The main operating principle of this method is to maximize the heat radiating surface area (with foot fins) or use airflow (with fan blades) to dissipate heat from the processor to the surrounding environment.

In particular, heat dissipation using a cooling fan is a simple, gentle and completely closed method. Depending on the airflow available, a heatsink fan can deliver the same performance as a similarly sized heatsink.

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Passive heat dissipation

Passive heatsink is a cooling method using a heatsink with a large, flat surface, without fins like a Heat Sink. Instead of cooling with airflow, this heat sink will be wrapped directly on the surface of the part that needs heat dissipation (processor). Therefore, the heatsink can absorb all the heat from the processor and radiate it outside. It can be said that this method does not help cool directly but only transfers heat from the CPU to another object to dissipate outside.

Currently, passive heat sinks are popular and applied to many types of devices. The reason is because this type of heatsink will make less noise and will not fail suddenly. In particular, they do not need to use a power source. This solves most of the disadvantages of active heat dissipation such as size, cost, and operating noise. However, active heat dissipation still helps reduce temperatures quickly and more effectively.

Popular heat dissipation technologies

Currently, there are 3 most popular heat dissipation technologies, let's learn more about them with **TipsMake** below:

Liquid cooling

Liquid cooling or water cooling technology is a cooling system that operates based on the condensation of water vapor. When the device's processor temperature increases too high, the liquid will automatically evaporate to cool the CPU.

This steam will travel to the heat pipe and condense into liquid at the end of the pipe. This process will work with TIM carbon fiber to help cool the phone's hardware more effectively.

Carbon radiator

The heat pipe part on the mobile phone is made of Carbon fiber which is durable and helps increase heat dissipation efficiency. A system of copper pipes covered with Carbon fiber will help conduct heat from the CPU to a wider part of the case. From there, the emitted heat will be automatically dispersed to the outside environment very easily.

Phone thermal paste is one of the applications that integrates this technology. In addition, some manufacturers also add artificial intelligence to help the device automatically customize performance for each application and game.

Specifically, when handling heavy tasks, the machine will increase performance and dissipate heat faster. When handling basic requirements, the machine is adjusted to a low operating state, consuming little energy and not generating much heat.

Picture 6 of Top 10 best phone cooling fan models of 2023

Heat dissipation with external fan

External fan cooling technology is often used in computers, but is also applied to heat dissipation for phones. In particular, the cooling fan will operate based on a direct connection to the phone or through the power source via USB cable.

However, it's best to use the power source to run the cooling fan instead of using battery power from your phone. Because this can cause the battery to drain more quickly.

Top 10 best phone cooling fans today

There are many types of phone cooling fans on the market with a full range of features and prices. To help you choose the right type of cooling fan, TipsMake would like to recommend the following 10 fan models:

1. K02

The K02 phone cooling fan has a bold gaming design but is extremely compact in size. The K02 fan provides a rotation speed of 4000 rpm, semiconductor cooling ability, and has a very good liquid cooling effect so it can quickly lower the phone's temperature. In particular, the fan has the ability to cool directly, you do not need to wait.

This cooling fan is constructed with 5 blades so it can minimize DC noise. This will help keep the phone at a normal temperature and protect the battery, minimizing energy usage and thereby prolonging battery life.

Picture 7 of Top 10 best phone cooling fan models of 2023

2. Xiaomi Black Shark Funcooler Pro

Xiaomi Black Shark Funcooler Pro phone cooling fan has an extremely eye-catching and stylish design, with unique 12-color RGB LED lights. The device has a rotation speed of 6200 rpm and 147 cooling columns. This rotation speed is considered to be twice as fast as the rotation speed of a helicopter rotor. Therefore, this cooling fan can reduce the machine's heat quickly, up to 14 degrees Celsius after 1 minute.

Picture 8 of Top 10 best phone cooling fan models of 2023

3. Flydigi WASP Wing

This type of cooling fan is designed with a minimum size of 4 inches and can be installed horizontally or vertically on the phone. The fan is integrated with a beautiful RGB LED lighting system. Users can easily customize and change the color of the lights. At the same time, the light will change according to the rhythm to

help stimulate the user's vision.

Flydigi WASP Wings radiator fan has a rotation speed of up to 4500 rpm. Furthermore, the fan is also equipped with 3 gears to be able to change the speed of the motor, and the heat absorption structure is stable. This helps the phone's temperature to always be dissipated to the outside and maintained at a normal level even when using game applications continuously.

Picture 9 of Top 10 best phone cooling fan models of 2023

4. Flydigi Wasp Wing Pro 2

Flydigi Wasp Wing Pro 2 phone cooling fan is made from semiconductor material commonly used in the production of aviation components with very high durability. Along with that is a beautiful RGB LED lighting system that helps increase the aesthetics of the overall product.

The fan possesses 7 blades along with an automatic control chip that provides extremely effective cooling. Specifically, in 7 minutes the heat can reach minus 7.2 degrees Celsius.

Picture 10 of Top 10 best phone cooling fan models of 2023

5. Memo DL01

The highlight of the **Memo DL01** radiator fan is its ability to quickly cool from 10 to 30 degrees Celsius within half an hour. At the same time, the fan also helps reduce the device's temperature by up to 40% during gaming, thereby minimizing the problem of device overheating or touch disturbances.

This type of fan can be used on both popular Android and iOS phones with widths ranging from 2.56 - 3.35 inches. The fan has a rotation speed of up to 7500 rpm, extremely powerful heat dissipation capacity, can help keep the phone from overheating when used continuously for many hours.

Picture 11 of Top 10 best phone cooling fan models of 2023

6. Memo DL05

Memo DL05 cooling fan is an upgraded fan version from DL01. Therefore, this fan model also possesses many advantages from the previous version but at the same time has developed many new features. Specifically, the fan is integrated with additional features such as RGB LED lights and temperature display screen.

At the same time, this device has a rotation speed of 7500 rpm. This performance helps deliver strong operating capacity to help cool the phone effectively during use.

Picture 12 of Top 10 best phone cooling fan models of 2023

7. X3A Pro

X3A Pro cold phone cooling fan possesses a compact, youthful design with powerful configuration, suitable for those with high gaming needs. Furthermore, this fan model also comes with 2 1000mA magnetic rechargeable batteries. Therefore, you do not need to plug in the power cord and can still use it for about 2 to 3 hours.

Picture 13 of Top 10 best phone cooling fan models of 2023

This cooling fan is designed with advanced cooling technology, helping the phone cool quickly. The fan's rotation speed is up to 5000 rpm, the wind direction is designed to face outside but not blow into the user's hands, creating a comfortable feeling during use.

In particular, the fan is also integrated with an extremely sturdy silicone anti-slip clip. Users can comfortably use it for phones with a thickness of 6.7-9.5cm. In addition, the LCD screen displays the temperature and the integrated RGB LED system is eye-catching and unique.

Besides, the weight of the fan is also a plus point. The X3A Pro weighs only 143g, so when attached to the phone it does not cause weight or hand fatigue during long-term use. At the same time, the fan operates very smoothly, does not emit noise that affects the user.

8. G6

This type of cooling fan is designed to be compact and convenient for users. The product helps to quickly lower the phone's temperature, limiting freezing, lag, and touch disturbances.

The fan is designed with dimensions of 58.4 x 93.4 mm so it is extremely compact and lightweight. At the same time, the product also has a very sturdy rubber clip that helps fix the fan to the body, suitable for phones measuring 4.5 - 7.5 inches.

How to use G6 is also very simple. You just need to install the fan fixed to the back of the device and connect the fan directly to the power source to use it. Furthermore, the fan does not make noise when operating, and does not cause discomfort when used.

Picture 14 of Top 10 best phone cooling fan models of 2023

9. Cooling Radiator X6

This type of fan is the newest product line today with many new technologies and features. Specifically, magnetic suction technology helps Cooling Radiator X6 be compatible with all phone devices with flat backs. The 30x30mm fan is enough to cover the surface of the phone, so it provides very good heat dissipation.

The fan blade is made of pure aluminum and meticulously machined to ensure the temperature drops quickly. The fan weighs 65g so it will not get in the way or be heavy when mounted on the phone. The RGB LED lighting system is also integrated into the product. The fan noise generated is only 26dB so it is completely not annoying when used.

Picture 15 of Top 10 best phone cooling fan models of 2023

10. BTM AS03

BTM AS03 phone cooling fan has a compact, convenient design, the fan size is very small so it can be used comfortably. With large fan blades up to 40mm, powerful motor and exhaust turbine technology provide excellent heat dissipation ability.

The fan is equipped with a USB charging port that can be charged as a backup or charged via a computer's USB, which is very convenient, you can use it at any time. The fan is designed with a stable and sturdy suction cup, providing compatibility with many different phone models. Does not make noise when operating, does not affect the user.

Picture 16 of Top 10 best phone cooling fan models of 2023

Epilogue

Internal cooling fans are very important for your phone. Hopefully the above sharing from TipsMake can help you better understand phone cooling fans and choose the right product for your needs.

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