



# Neijiang screw air compressor high temperature failure

What causes a screw air compressor to fail?

The repaired air compressor failures include, but are not limited to, high temperature, insufficient air pumping, overpressure of the main engine, overload of the motor, and excessive noise. Among them, the high temperature of screw air compressor is caused by many reasons, external and own reasons.

What happens if the air compressor coil is too high?

If the panel prompts that the motor coil is high temperature, the solution is still to use low-pressure air to purge the heat dissipation part of the motor. It is specially reminded that if the operating environment temperature of the air compressor is too high, it will also cause the temperature of the equipment to increase.

Why does my compressor trip on over temperature?

If your compressor trips on over temperature, it could be any of the following: Ambient temperature too high or not enough ventilation. A screw compressor can run loaded ('pumping air') or unloaded ('idle'). The inlet/loading valve opens and closes according to air demand.

What happens if air compressor temperature is too high?

It is specially reminded that if the operating environment temperature of the air compressor is too high, it will also cause the temperature of the equipment to increase. The solution is to use the exhaust fan duct to discharge heat and reduce the ambient temperature.

What is the normal operating temperature of an air compressor?

The normal operating temperature of an air compressor typically ranges between 75°C to 95°C. One of the common air compressor failure is overheating of the air compressor. For screw air compressors, operating temperatures exceeding 100°C will cause high-temperature alarms or shutdowns within the system.

Why is ambient temperature too high in air compressor?

External reasons 1). The ambient temperature is too high, because the higher the temperature, the thinner the air, resulting in a decrease in the working efficiency of the air compressor, making the air compressor more time in the loading state, carrying more load, and causing the air compressor to generate more heat.

Analysis of the cause of the failure: The screw compressors use cooling oil in a closed cycle and operate at a relatively high temperature for a long time, so there may be varying degrees of ...

The operating load of the screw air compressor is too large, which will also cause the internal temperature of the equipment to rise. When the equipment is in a state of high ...



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This article introduces the five most common air compressor failures and their solutions, helping you improve the reliability of your equipment's operation. ...

High exhaust temperature is a common fault in high-altitude compressors, especially in summer. Due to the influence of environmental temperature, the operating temperature of the air ...

However, excessive temperature can sometimes pose a challenge, affecting the compressor's efficiency and lifespan. In this article, we ...

Fourth, the air filter is blocked. The blockage of the air filter will cause the air compressor to be overloaded, and it will be in a loaded state for a long time, causing high temperature. ...

Rotary screw compressors are widely used in various industries due to their efficiency, reliability, and ability to provide a continuous supply of compressed ...

Based on years of experience in the maintenance of screw air compressors, Kerun Energy-saving engineers have summarized the following ...

Atlas Copco air compressors are a worldwide operating company, that provides a broad range of air compressor technology to users around the ...

Questions applicable to VS Compressor: Review the drive alarm history log and record events. Verify the oil injection solenoid coil wiring connections and coil resistance. Questions ...

To prevent your air compressor from overheating, focus on improving ventilation, monitor compressor oil levels, and keep compressor parts up-to-date. [Learn more!](#)

The temperature will rise higher and higher, which is also one of the main factors causing the high temperature of the screw air compressor. Solution: add air compressor oil, if the high ...

**What Causes a Compressor to Overheat?** Air compressors can overheat due to several underlying causes. High Temperature Excessive heat can impact an ...

**Intake system problem:** Too low intake temperature or clogged intake filter will increase compressor load, increase power consumption and heat generation, and then cause ...

**High motor ampere (power)** There are other reasons to increase the motor ampere (power) which is higher temperature of suction air, malfunction ...

One important function of the lubricating oil in a rotary screw air compressor is to act as a coolant. When the



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amount of oil is insufficient or ...

Addressing high temperature failures in screw air compressors requires a proactive approach, including regular maintenance, quick repairs, improved environmental conditions, and ...

High temperature alarm or shutdown failure in air compressors is a common issue in industrial environments. By understanding the root causes, effects, and diagnostic procedures, you can ...

Reasons for frequent jumping of screw air compressors 1. Air compressor unloading valve failure 2. Lubricating oil causes high temperature

During the hot summer and autumn months, rising ambient temperatures pose a significant challenge to the stable operation of screw air compressors. Due to their continuous high-load ...

Over the years, I repaired and troubleshooted hundreds of rotary screw air compressors. In these troubleshooting "basics" series I explain the most ...

Stable air supply: A well-regulated temperature ensures a consistent supply of compressed air, optimizing production processes. ...

High exhaust temperature is the most common failure of screw air compressors, and its harm is also greater. Long-term operation of equipment under high exhaust temperature conditions ...

In this article, we will explore the causes, diagnostic methods, and 10 powerful solutions to help you prevent and fix overheating issues in your screw air ...

The high temperature of the air compressor is one of the more common faults in the use of the air compressor. In this paper, various potential causes are found and analyzed for this problem.



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