



Screw air compressor exhaust connection pipe

What is a screw air compressor?

As these screw air compressors are generally not equipped with any valves and have no mechanical forces that cause unbalance, these solutions can be extremely efficient for various applications. This is because a screw compressor works at a higher shaft speed and compresses a large volume of air with small exterior dimensions.

Why do compressors need exhaust ductwork?

Compressors are very effective in turning nearly all consumed electrical energy into heat. At the same time, compressor operating temperatures need to be controlled for both longevity and efficiency, so improper installation of exhaust ductwork can lead to reliability and air quality issues, especially during warmer months.

How many air compressor fittings are there?

Choose from our selection of air compressor fittings, including over 14,300 products in a wide range of styles and sizes. Same and Next Day Delivery.

How do I maintain my air cooled screw compressor?

Regular maintenance: Schedule regular checks and maintenance for ductwork, fans, and louvers to ensure proper operation. Properly sized and installed ductwork is crucial for the efficient operation of air-cooled screw compressors. Miscommunication between customers and contractors often leads to common mistakes.

How do you size a screw compressor duct?

Consult the manufacturer's data: Use the cooling fan flow (CFM) and maximum allowable back pressure (inches water column) for duct sizing. Air-cooled screw compressors are generally designed to operate with a target differential of 105°F between compressor room temperature and the internal air end discharge temperature (before the aftercooler).

Can a single air compressor be ducted into a duct header?

This will impede cooling. Ducting multiple air compressors into a common duct header can cause uneven airflow, leading to backflow and overheating. Use separate ductwork for each air compressor and consider adding louvers to prevent hot air from feeding into units that are not operating.

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exhaust pipe installation right. In this blog, I'm gonna walk you ...

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