

Skid Instrument Air Skid Incorporating PLC Control System and 50 HP Compressor Capacity Optimized for Automation Systems

Basic Information

- Brand Name: Complete Modular Design And Fabrication For Instrument Air Systems
- Model Number: 005



Product Specification

- Compressortype: Oil-free Rotary Screw Compressor
- Pipeline Standard: EN 10204-3.1 Or ASME B31.3
- Type: Skid
- Coating: Epoxy
- Compressor Brand: Ingersoll Rand
- Power Supply: Electric
- Filtrationstages: Multi-stage Filtration Including Coalescing And Particulate Filters
- Compressor Capacity: 50 HP
- Highlight: **PLC control instrument air skid,
50 HP compressor air skid,
automation optimized instrument air skid**

Product Description:

The Instrument Air Skid is a highly efficient and reliable solution designed to meet the demanding requirements of various industrial applications. Engineered with precision and built to last, this product offers exceptional performance in delivering clean, dry, and consistent instrument air, essential for the smooth operation of process control instruments and pneumatic devices. The skid-mounted design ensures ease of installation and integration, making it an ideal choice for facilities seeking dependable air supply systems without the complexity of custom setups.

One of the standout features of this Instrument Air Skid is its robust coating of epoxy, which provides superior protection against corrosion, environmental factors, and mechanical wear. This durable epoxy coating extends the lifespan of the equipment, ensuring that it continues to perform optimally even in harsh industrial environments. The protective layer not only enhances the aesthetic appeal of the skid but also contributes significantly to its long-term reliability.

Powering the system is an electric power supply, ensuring consistent and efficient operation. The control power requirements are flexible, accommodating 110-240V at 50/60Hz with a power consumption of just 0.5 kW. This versatility in power input makes the Instrument Air Skid suitable for various geographical locations and industrial setups, providing users with a hassle-free power connection experience. The electric drive ensures quiet, clean, and energy-efficient operation, which is crucial for maintaining a safe and comfortable work environment.

With an instrument air capacity of 300 SCFM (Standard Cubic Feet per Minute), this skid is capable of supplying a substantial volume of compressed air to meet the needs of multiple instruments and control systems simultaneously. This capacity ensures that process control systems receive a steady flow of air, reducing the risk of downtime caused by air supply interruptions. Whether you are operating in a small plant or a large-scale industrial facility, the 300 SCFM capacity offers the flexibility and reliability required for smooth operations. Drying the compressed air is a critical aspect of any instrument air system, and this product excels by offering the option of either refrigerated or desiccant air drying methods. The refrigerated air dryer option efficiently removes moisture from the air by cooling it, causing water vapor to condense and be eliminated from the system. This method is energy-efficient and ideal for applications where moderate dew points are acceptable. Alternatively, the desiccant air dryer option provides a more rigorous drying process, capable of achieving very low dew points necessary for highly sensitive instrumentation and environments where moisture can cause significant damage.

Users looking for reliable instrument air compressor systems will find this Instrument Air Skid to be a turnkey solution that combines functionality, durability, and ease of use. The skid-mounted packaged air compressor system comes fully assembled and tested, allowing for rapid deployment and minimal setup time. This turnkey approach reduces installation costs and accelerates project timelines, enabling plants to get operational quickly without sacrificing quality or performance.

In summary, this Instrument Air Skid is a comprehensive packaged system that delivers reliable instrument air compressor systems with an emphasis on durability, efficiency, and flexibility. Its epoxy coating ensures long-lasting protection, while the electric power supply and wide voltage compatibility provide operational reliability. With a capacity of 300 SCFM and options for refrigerated or desiccant air drying, this product is designed to meet the diverse needs of modern industrial facilities. Get turnkey skid mounted packaged air compressor systems that guarantee a dependable supply of clean, dry instrument air, essential for the safe and efficient operation of your process control instruments and pneumatic equipment.

Technical Parameters:

Type	Skid
IA Capacity	300 SCFM
Air Flow Rate	1000 SCFM
Control Power	110-240V 50/60Hz 0.5kw
Drying Method	Refrigerated Or Desiccant Air Dryer
Compressor Type	Oil-free Rotary Screw Compressor
Compressor Brand	Ingersoll Rand
Compressor Capacity	50 HP
Power Supply	Electric
Filtration Stages	Multi-stage Filtration Including Coalescing And Particulate Filters

Applications:

The Complete Modular Design And Fabrication For Instrument Air Systems, model number 005, originating from Suzhou, China, is a highly reliable instrument air compressor system designed to meet the demanding needs of various industrial applications. This instrument air skid features an oil-free rotary screw compressor that ensures clean, contaminant-free air supply essential for sensitive instrumentation and control systems. With an IA capacity of 300 SCFM, the system delivers a robust and consistent air flow, making it suitable for medium to large-scale operations.

This instrument air skid is engineered with flexibility in mind, offering drying methods such as refrigerated or desiccant air dryers to provide optimal moisture removal tailored to specific operational requirements. The electric power supply ensures energy-efficient operation, making it an environmentally friendly choice for industries aiming to reduce their carbon footprint. As a skid-mounted unit, it provides ease of installation, mobility, and space-saving benefits, making it ideal for plants with limited floor space or requiring modular expansion.

Typical application occasions for this reliable instrument air compressor system include petrochemical plants, refineries, pharmaceutical manufacturing, food and beverage processing, and power generation facilities. These industries rely heavily on stable and clean instrument air to maintain precise control of valves, actuators, and other critical pneumatic devices. The system's oil-free rotary screw

compressor guarantees that no oil contamination will compromise the sensitive equipment, ensuring operational safety and product quality.

Custom Skid Membrane Instrument Air Systems like this model 005 are also widely utilized in environments where customized air treatment solutions are necessary. Whether the need is for high purity air or specific pressure and flow configurations, this modular skid system can be tailored to meet unique industrial demands. Its robust construction and reliable performance make it an indispensable component in any instrument air setup.

In summary, the Complete Modular Design And Fabrication For Instrument Air Systems model 005 combines advanced technology, customization, and reliability into one compact skid. Its oil-free rotary screw compressor, flexible drying options, and electric power supply make it a top choice for industries requiring dependable instrument air. The system's versatility and modular nature allow it to seamlessly integrate into existing plant infrastructures, ensuring continuous and efficient operation in various application scenarios.

Customization:

Our Instrument Air Skid product, model IASK-2020 (Model Number: 005), represents the pinnacle of complete modular design and fabrication for instrument air systems. Manufactured in Suzhou, China, this package features an oil-free rotary screw compressor combined with a refrigerated or desiccant air dryer, ensuring a reliable instrument air compressor system for your operations.

With an impressive air flow rate of 1000 SCFM, our instrument air skids packages are engineered to deliver consistent and high-quality compressed air tailored to your specific needs. The integrated PLC control system provides advanced monitoring and control capabilities, enhancing system efficiency and reliability.

Choose our Instrument Air Skid for a dependable, efficient, and fully customizable solution that meets the rigorous demands of industrial applications requiring clean, dry, and reliable compressed air.

Packing and Shipping:

The Instrument Air Skid is carefully packaged to ensure maximum protection during transportation. It is securely mounted on a robust skid base, wrapped with protective materials, and enclosed in a custom-built crate to prevent any damage from handling or environmental factors.

For shipping, the Instrument Air Skid is transported using standard freight methods suitable for oversized industrial equipment. All packages are clearly labeled with handling instructions and destination details to guarantee safe and timely delivery.

Additionally, we provide comprehensive shipping documentation and tracking information to keep customers informed throughout the transit process.



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