piCLASSIC™ Neo | piCLASSIC™ Neo Inline

Engineered for efficiency. Designed for tomorrow.

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Endless possibilities

A powerful, efficient and flexible air-driven vacuum pump designed to meet modern industrial needs.

piCLASSIC™ Neo represents the next step in the evolution of vacuum pumps. Based on Piab's innovative multistage COAX® technology, it provides reliable performance across multiple industrial applications. With its small footprint and configurable design (international patent pending) it offers high adaptability, flexible installation and user-friendly maintenance. piCLASSIC™ Neo is designed for reliable and sustainable manufacturing, following eco-design principles. Additional energy saving functions ensure efficient operations and minimized use of compressed air.

- Versatile vacuum performance suitable for a wide range of applications.
- Configurable design for effortless integration and adaptability.
- User-friendly maintenance and flexible installation.
- Small footprint to fit into tight spaces.
- Energy-efficient operation achieved through optional energy saving functions.

The pump is available in two main variants with different port layout:

piCLASSIC™ Neo as standard variant with all ports accessible from the same side, and an alternate compressed air port on the side, accessible during installation.

piCLASSIC™ Neo Inline has the exhaust port opposite of the vacuum port, allowing flush mounting on profiles and is especially suitable for End-of-Arm-Tooling (EOAT) and robotic applications.

Both variants work seamlessly with Piab's energy saving functions piSAVE® ESL and piSAVE® ESS, when handling either leaking or sealed materials. The energy saving systems ensure operational efficiency while minimizing the use of compressed air.

Scan the QR-Code or visit
https://va.piab.com/piCLASSIC-Neo
to customize your vacuum pump variant.

Example configurations

The modular design offers versatile configuration, enabling customization of features to suit specific application needs.

piCLASSIC™ Neo with 4x Xi COAX® Ejectors

The Xi COAX® ejectors reach extra deep in vacuum. The standard variant has all ports reached from one side, ensuring that they are easily accessed.

piCLASSIC™ Neo with 3x Pi COAX® Ejectors and piSAVE® ESS

The Pi COAX® ejectors ensure reliable vacuum, even in applications with low or fluctuating feed-pressure. The optional energy saving function for sealed material, piSAVE® ESS, maitains a secure grip and optimizes energy efficiency. Here in a standard design.

piCLASSIC™ Neo Inline with 6x Si COAX® Ejectors and piSAVE® ESL

A configuration of the Inline variant, with vacuum port opposite the exhaust. The Si COAX® ejectors ensure high initial vacuum flow. piSAVE® ESL, energy saving function for leaking material, dynamically ensures secure and efficient operations.

Ultimate flexibility

Quick to install. Easy to maintain.

piCLASSIC™ Neo is built for fast maintenance and long-lasting reliability. Key components are easily accessible thanks to its modular design, simplifying service efforts and reducing downtime to keep operations running smoothly.

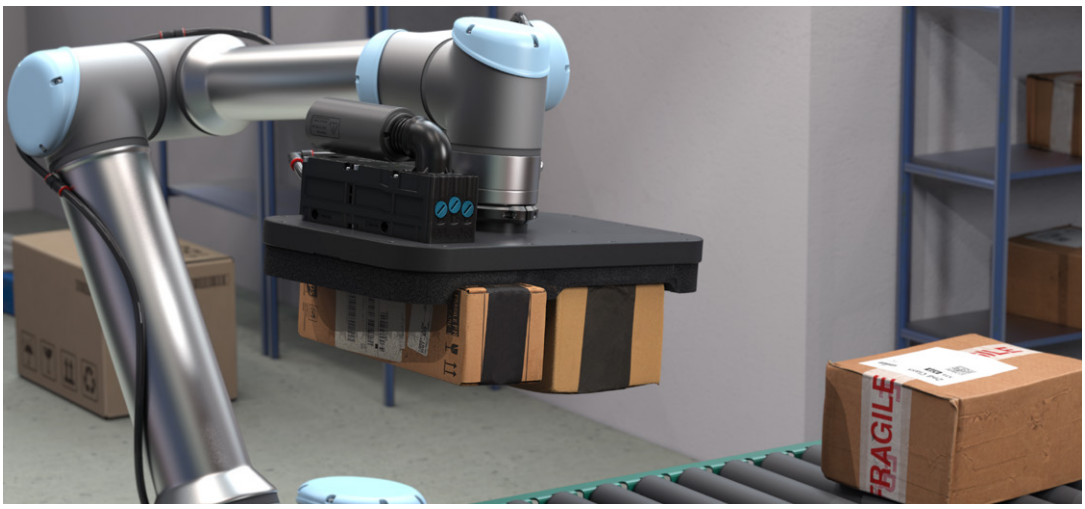
- Easy access to components
- Simple maintenance
- Multiple installation options
- Wide range of accessories

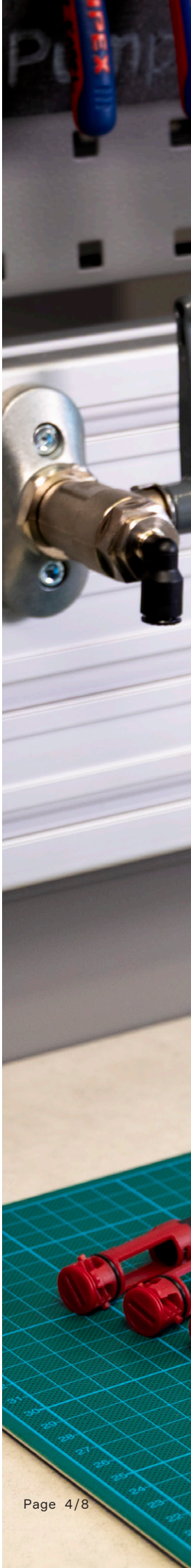
"By being easy to both install and maintain, piCLASSIC™ Neo supports operational efficiency for a vast range of industrial applications."

Christina Storckenfeldt,
Product Manager,
Piab Vacuum Automation Division

Installing and maintaining piCLASSIC™ Neo is simple. With multiple installation interfaces and accessories, the pump can easily fit in to any system. Maintaining smooth operations over time is also hassle-free thanks to the easy access to ejectors and centralized valve interface. With the new COAX® ejector design, each ejector can be extracted for individual cleaning without needing to disassemble the whole pump unit. By making upkeep efficient, the piCLASSIC™ Neo helps manufacturers maintain consistent vacuum performance with minimal efforts.

A diverse selection of accessories and upgrade options allows the system to be adapted over time. piCLASSIC™ Neo is designed to grow with your business and future application needs.





Quick access to COAX® ejectors

No disassembly of the pump is required, which makes it easy to clean or adapt the type or number of COAX® ejectors as application requirements may change over time.

Separated valve plate

All valves, such as flap valves and the non-return valve, are housed within a dedicated valve plate. This allows for quick and easy access for cleaning, greatly improving uptime.

Eco-conscious engineering

Sustainable design without compromise.

piCLASSIC™ Neo is developed with sustainability at its core. It is designed following eco-design principles, resulting in up to 58% reduction in CO_2-emissions cradle-to-gate compared to its predecessor *.

Premium sustainable materials: piCLASSIC™ Neo utilizes premium bio-based or recycled materials for its plastic components, assuring robustness, durability and quality.

Optimized resource efficiency: Designed with a small footprint and optimized material usage, piCLASSIC™ Neo significantly improves resource efficiency and minimizes environmental impact throughout the entire value chain.

Comprehensive range of energy saving functions: piCLASSIC™ Neo offers a full range of energy saving functionalities for both leaking (piSAVE® ESL) and sealed (piSAVE® ESS) materials and objects. This enables users to reduce the compressed air used in the application, minimizing *Scope 2 Emissions* and energy-related costs.

Ease of use and maintenance: The entire family of piCLASSIC™ Neo is engineered to simplify use and reduce maintenance time, ensuring hassle-free servicing and increasing uptime.

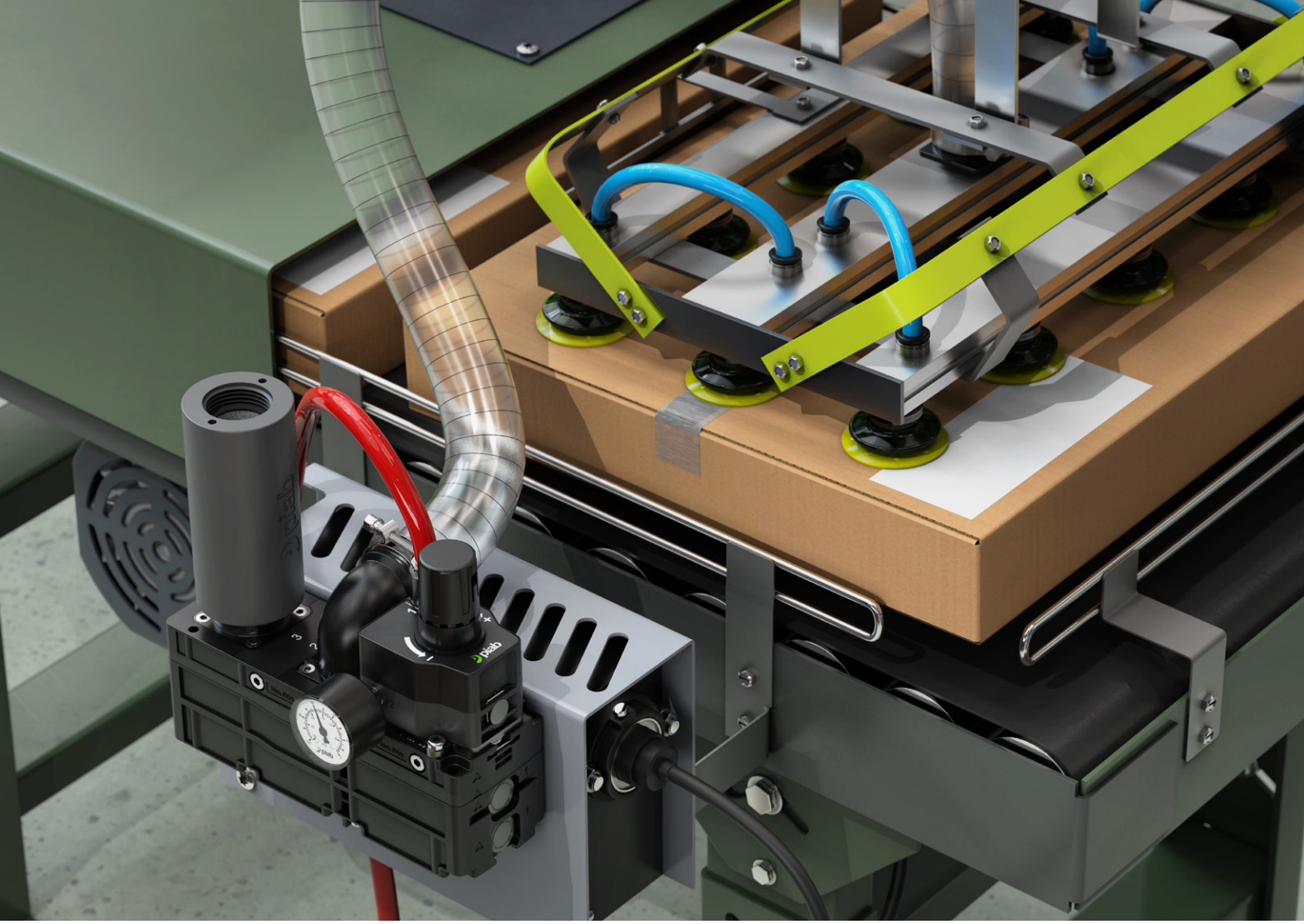
Extended product life: The piCLASSIC™ Neo family offers a wide range of spare parts, accessories and upgrade possibilities. This ensures prolonged lifetime of the pump, reduced waste and adaptability to future needs.

End-of-life design: The pump is designed for fractional disassembly, enabling efficient recycling and disposal at end-of-life. This ensures that the product contributes to a circular economy, embodying sustainability throughout the entire life cycle, cradle-to-grave.

** LCA Report - piCLASSIC™ Neo:*
https://va.piab.com/piCLASSIC-Neo-LCA

"We've designed piCLASSIC™ Neo to fit not only today's manufacturing demands but also tomorrow's, helping manufacturers take a simple step toward a more sustainable production process."

Christina Storckenfeldt, Product Manager, Piab Vacuum Automation Division

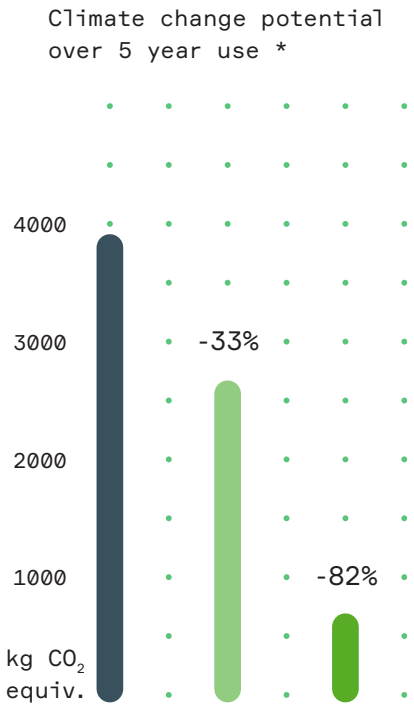


Optimized energy use for any material handled

The additional and fully pneumatic energy saving functions for piCLASSIC™ Neo contribute to more energy-efficient and cost-conscious operations.

Energy saving function for Sealed materials: piSAVE® ESS is the preferred energy saving function for handling air-tight materials, such as metal, glass, or plastic.

Energy saving function for Leaking materials: piSAVE® ESL is recommended when handling leaking materials or objects, such as cardboard, fabric, bags, MDF boards or wood.



Graph: Climate change potential over 5 year use *

Configuration used: piCLASSIC™ Neo with 3x Xi COAX® ejectors.

Using piSAVE® ESL

Using piSAVE® ESS

Without energy saving function

kg CO_2 equivalent over 5 years using average European energy mix.

** Based on Life Cycle Assessment (**LCA Report - piCLASSIC™ Neo**) with the above configurations.*

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