

piCLASSIC™ Neo | piCLASSIC™ Neo Inline

Engineered for  
efficiency.  
Designed for  
tomorrow.



# 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:

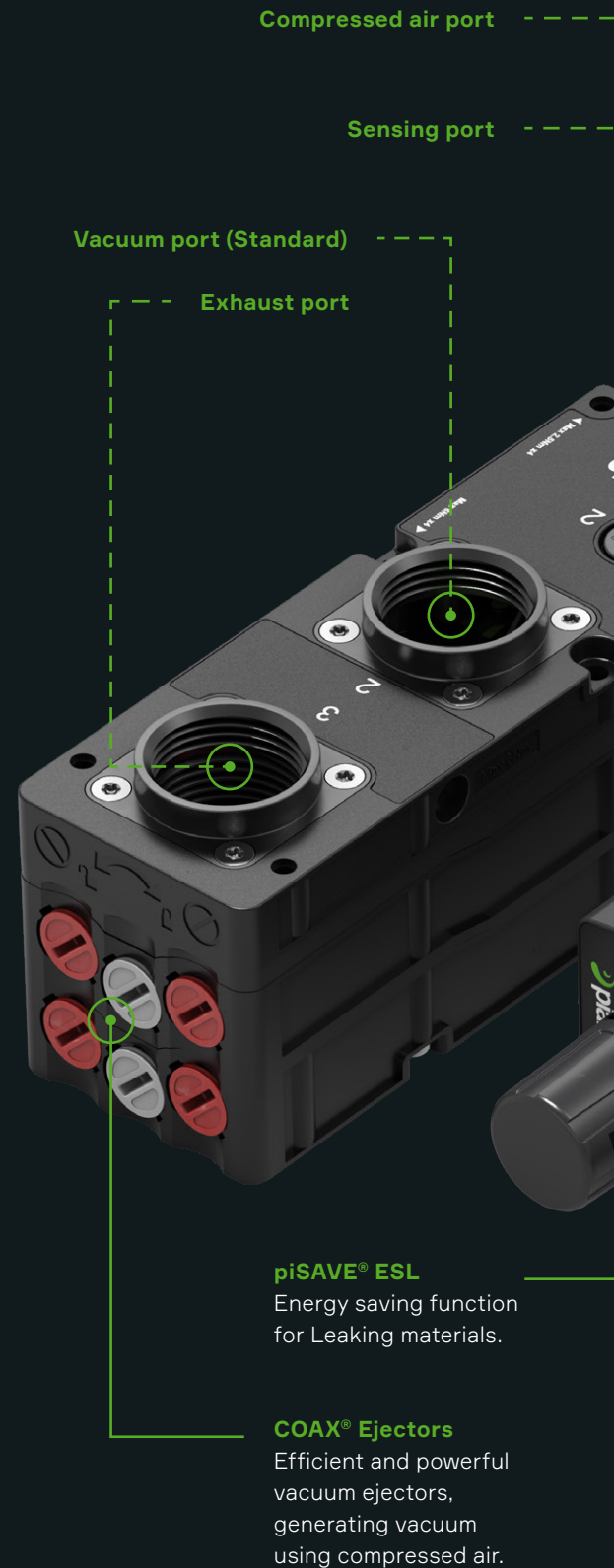
**piCLASSIC™ Neo** as standard variant with all ports accessible from the same side, and an alternate compressed air port on the side, accessible during installation.

**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, maintains 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.



Vacuum port (Inline)

Silencer

piSAVE® ESS

Energy saving function for Sealed materials.

## 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



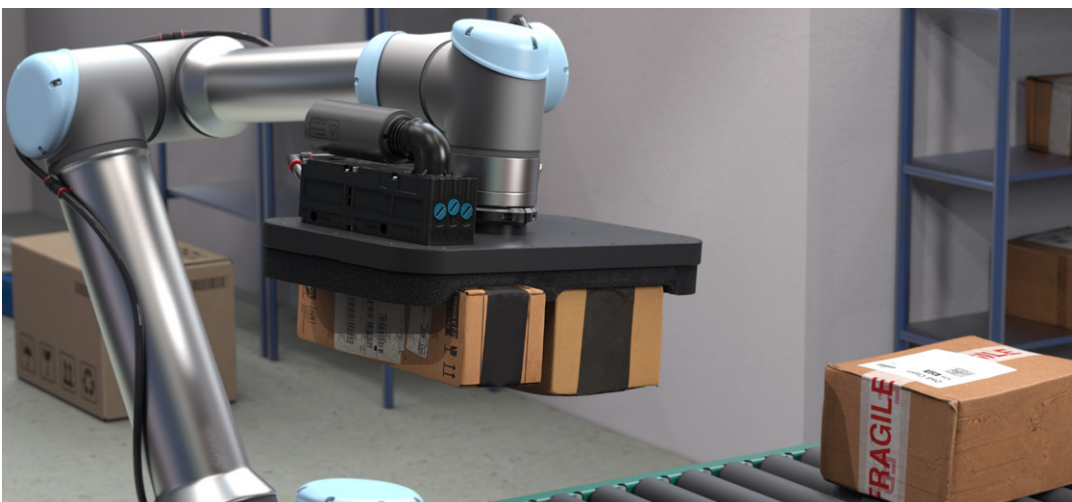
Wide range of accessories

“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<sub>2</sub>-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.

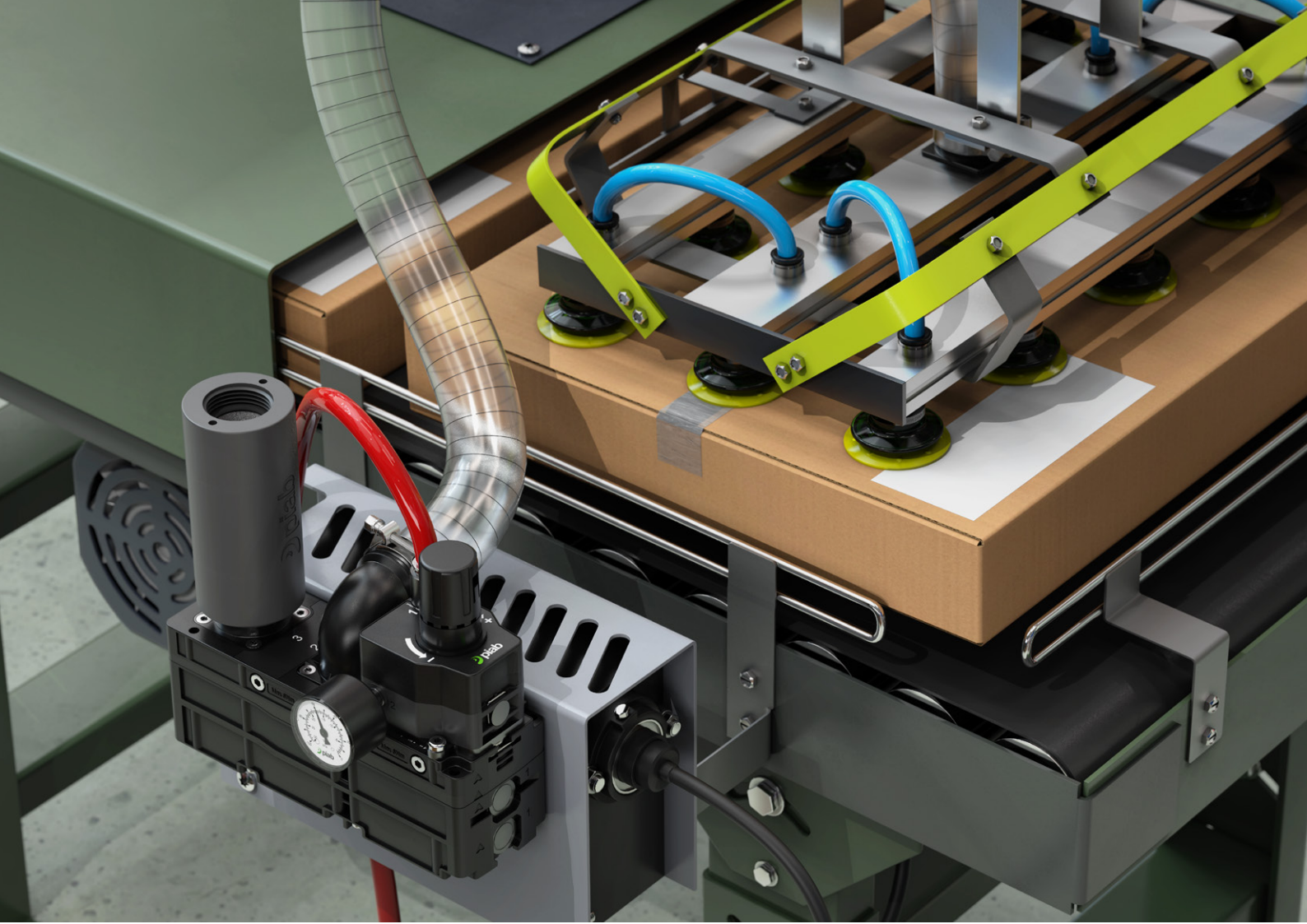


“We’ve designed piCLASSIC™ Neo to fit not only today’s manufacturing demands but also tomorrow’s, helping manufacturers take a simple step toward a more sustainable production process.”

Christina Storckenfeldt, Product Manager,  
Piab Vacuum Automation Division



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



# 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.

Climate change potential  
over 5 year use \*



Graph: Climate change potential over 5 year use \*  
Configuration used: piCLASSIC™ Neo with 3x Xi COAX® ejectors.

- Using piSAVE® ESL
  - Without energy saving function
  - Using piSAVE® ESS
- kg CO<sub>2</sub> 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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