

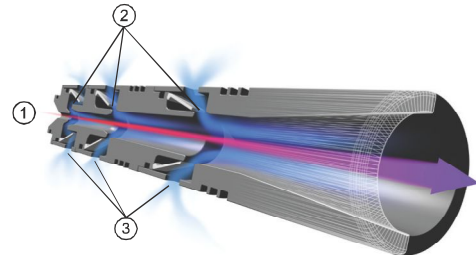
# piFLOW®

Piab's product series is called piFLOW® and it is offered in three models, the piFLOW®i for industrial applications, the piFLOW®f that is in the industry where food grade quality is a demand and piFLOW®p for premium applications such as food and pharmaceutical.



They have many things in common, but also many things that differentiate them. One main thing that they all have in common is the energy efficient way of producing vacuum. They are all built on using compressed air and COAX® cartridges for creating vacuum with compressed air. The COAX® cartridges are smaller, more efficient and more reliable than conventional ejectors, which allows for

the design of a flexible, modular and efficient vacuum system. A vacuum system based on COAX® technology can provide you with three times more vacuum flow than conventional systems, while reducing energy consumption.



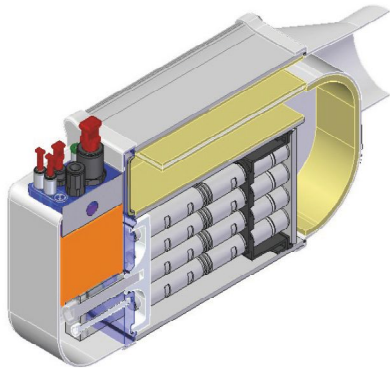
When compressed air (1) passes through the nozzles (2), air is pulled through with the stream of compressed air. Suction will be generated at the opening of each stage (3), resulting in vacuum.



Pump piBASIC suitable for piFLOW®i and piFLOW®f.



Pump piPREMIUM suitable for piFLOW®p.



Pump piPREMIUM cross section.



piFLOWI®/f cross section.

There are some advantages and features that goes across the three product lines.

- As they are all configurable, you can build the exact conveyor to your need and over time change just the part that needs changing, such as adding extra volume when the capacity need has increased.
- The modularity makes them easy to maintain and clean so you can keep the changeover time as low as possible and increase the productivity.
- Apart from having very small conveyors the three series of the piFLOW® are constructed to be very compact, for example such as having the pump side mounted to provide flexibility when you have limited space but still large conveying needs.
- As the whole conveying principle is based on vacuum you will be able to have a solution that contributes to a dust free conveying and probably a better working environment.

- As the pump is using the world's most energy efficient ejector – the COAX® technology you are ensured that you have an energy efficient conveyor.
- They have all the possibility to be equipped with a filter that has a filtration between 0.5 to 5 µm.
- The conveyor comes with a 5 years warranty.
- Fully pneumatic system, including the controls.

Here is some guidance on which conveyor line to choose:



	Standards	piFLOW®i	piFLOW®f	piFLOW®p
ATEX dust		●	●	●
ATEX gas				●
FDA*			● *	●
USDA**				● **
EC 1935/2004			●	●
IQ/OQ				●
Steel quality		ASTM 304	ASTM 304	ASTM 316L
Surface finish		Ra<3.2	Ra<3.2	Ra<0.6
Max capacity		5 tons/hrs	5 tons/hrs	14 tons/hrs
Fluidization				●

\* All materials in contact with the conveyed product fulfill the requirements of FDA.

\*\* piFLOW®p is designed according to USDA dairy guideline.