

piFLOW[®]p SMART CCO

Maximizing Capacity Usage

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Fewer cycles are needed to convey a certain product to packaging, sieving, milling, or dosing. The piFLOW[®]p SMART CCO optimizes the process by maximizing the use of the system capacity with each new conveying cycle.



Chemical Industry



Food & beverage



Pharmaceutical

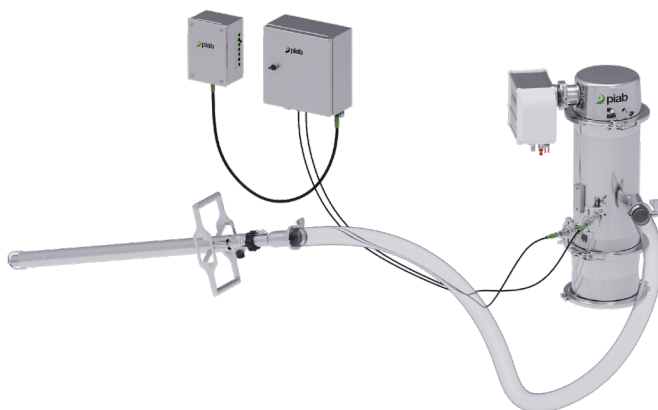
Thanks to its dual sensor solution, it utilizes the entire conveyor batch volume in every cycle, while the operator only needs to set one value, i.e., of the air carrying valve. All other settings are adapted accordingly by the conveyor itself.

The semi-automated piFLOW[®]p SMART CCO focuses on conveying one material within a stable environment and allows for pick-up of material directly from a barrel with a feed nozzle or pipe.

Its centre part is the dual sensor solution – the key to optimal batch volume. The top sensor measures the quantity in the conveyor and stops the filling cycle once it reaches the maximum level. The top sensor shuts off the cycle before the material reaches the filter. Thereby, filter breakage is nearly eliminated, reducing downtime and replacement cost.

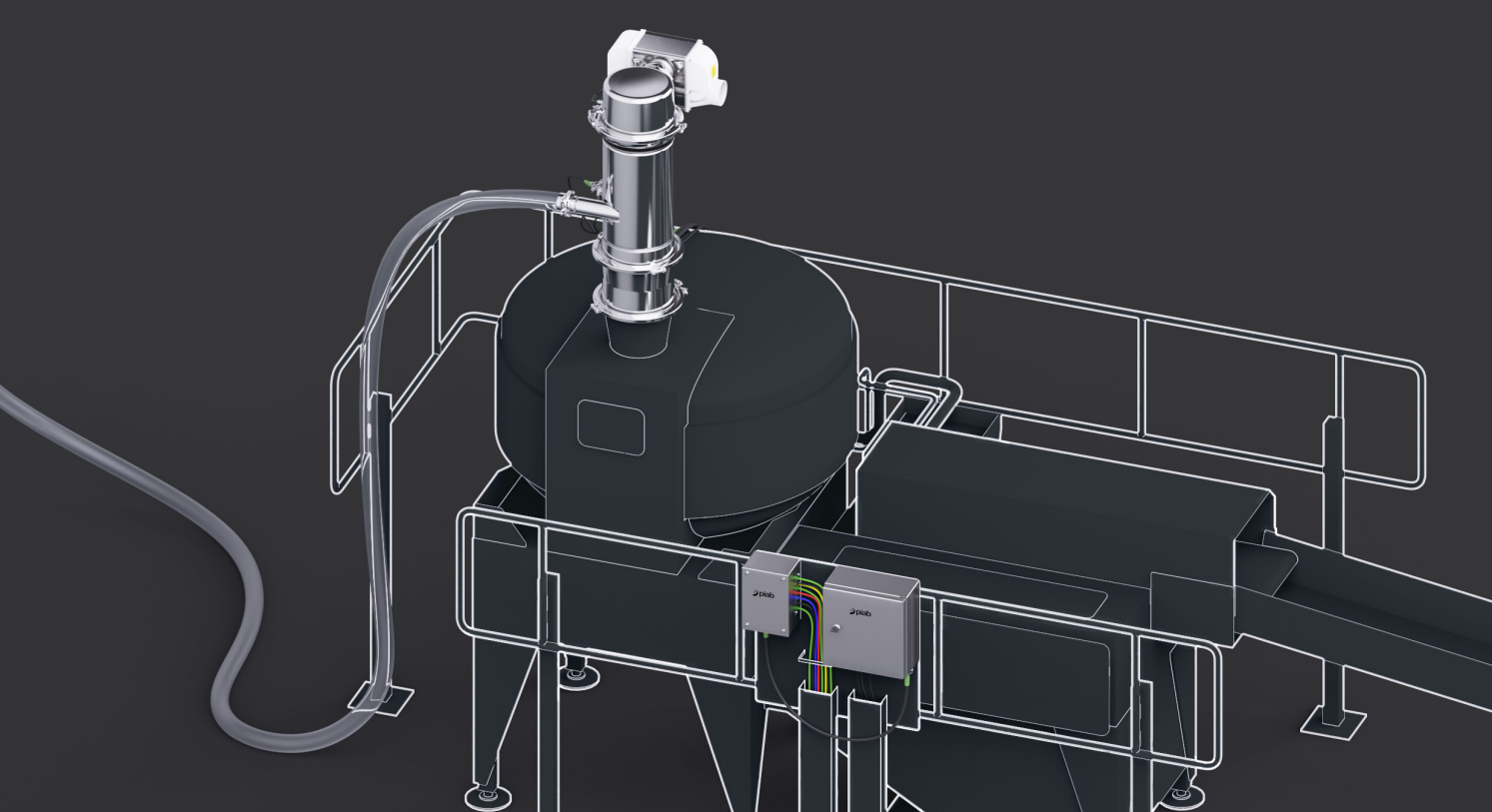
The suction and discharge times are set either fully automatic or manually in the control system ECU15S. Settings can be saved and invoked when the same material is conveyed again. Choosing the automatic setting, the operator only needs to set the value of the carrying air valves as the suction and discharge times automatically adjust to the new settings.

With fewer conveying cycles needed, the operator needs less time particularly for fine-tuning the system in the day-to-day operation. Also, less energy is used for the same amount of material conveyed making the whole process more energy efficient and cost effective.



- Easy to use
- Energy efficient and cost effective
- Inherent system protection
- In compliance with FDA, EC No. 1935/2004 and EU No. 10/2011
- Steel quality ASTM 316L (stainless steel, acid resistant)





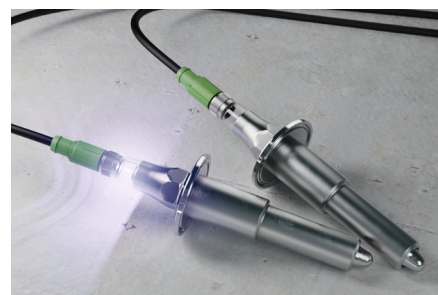
Filter cleaning by multiple shocks

Filter blockages can cause system downtime. With the option of multiple filter shocks, filters are kept clean for a longer production time increasing their lifetime. Depending on the material conveyed, the system can be set to perform 1 to 5 filter shocks.



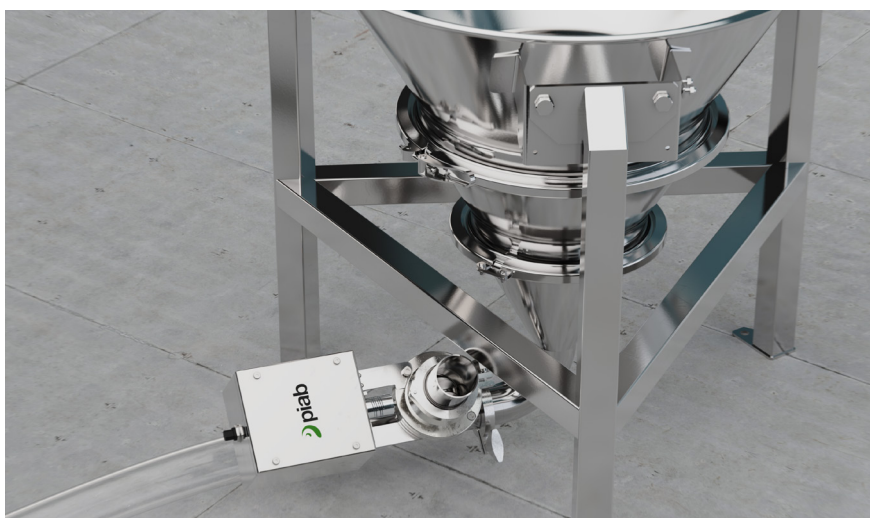
Blow cleaning of internal level sensors

With an air channel integrated in an adapter between sensors and conveyor, the blow cleaning is optimally directed to the sensor heads, which are cleaned by pulses of compressed air during the discharge of powder until they are un-triggered.



Conveyor external level sensors

The conveyor controller supports up to two conveyor external level sensors for interaction with the conveying process. These are typical used as a minimum level detection at the equipment feeding the conveyor or as maximum level detection in the equipment that material is conveyed.



Fully upgradable

Whether the piFLOW[®]p SMART CCO is your entry to automated vacuum conveying or your requirements change, you can always upgrade to the full piFLOW[®]p SMART version by adding a feed adapter and air carrying unit in just ten minutes.



Electrical Controls

The unit not only enables functions such as saving of material parameters and multiple filter shocks, it also supports system error detection. All settings can be done through the user-friendly Human Machine Interface (HMI).



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