

Транспортировка Vakupulse, D450-550

Технические характеристики

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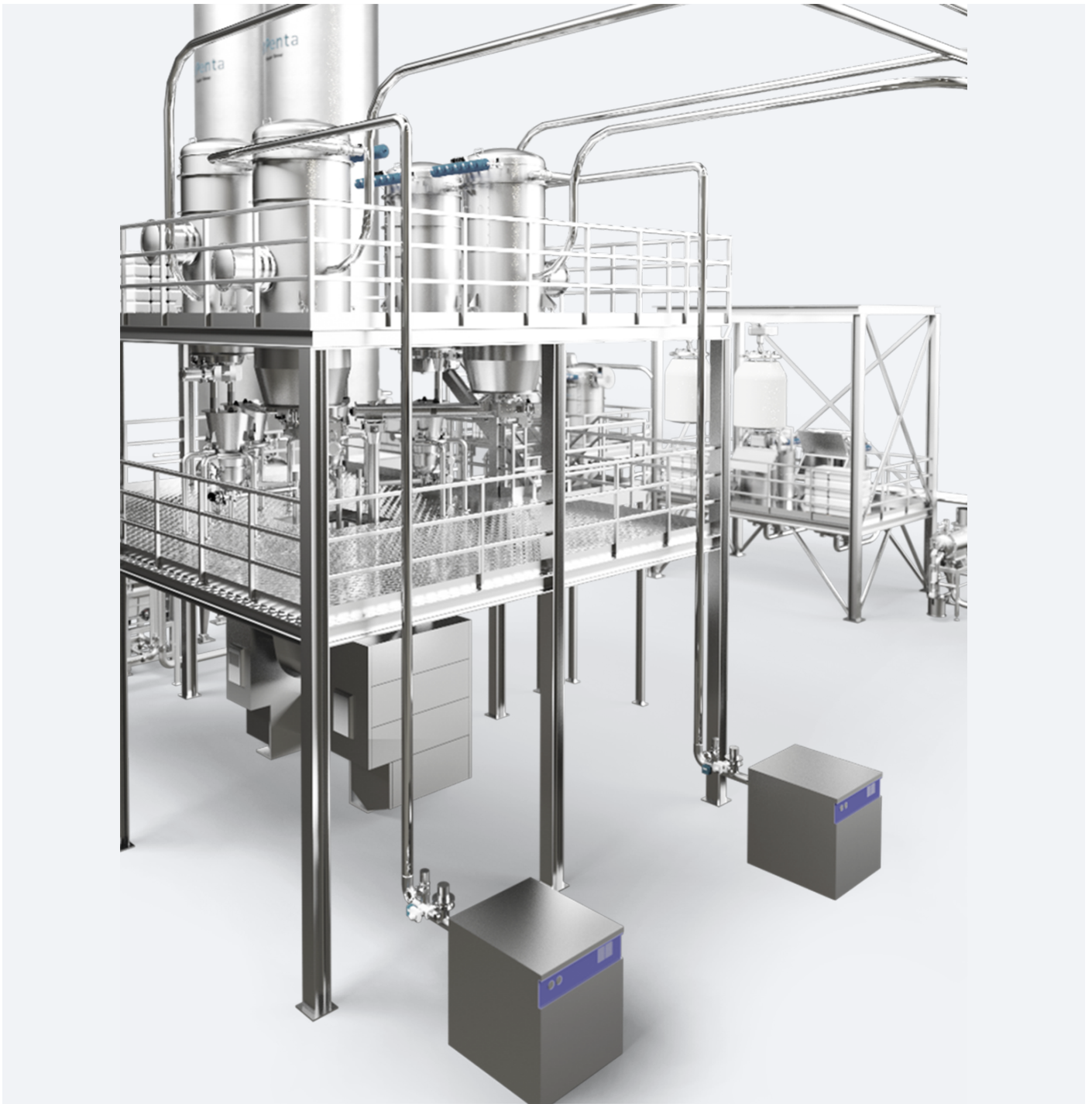
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Transport

DENSE AND DILUTE PHASE TRANSPORT WITH PRE-MIXING
OPTIONS

Flexible solutions for small and large installations

- Pneumatic transport in dense and dilute phase
- Pre-mixing of ingredients
- Total traceability of all production batches

PiovanGroup **industrial conveying systems** are developed according to engineering design standards for a **hygienic and safe process**.

These solutions are specifically designed and manufactured for the **handling of food powders** and **viscous liquids**, including flour, sugar, cocoa, honey, starch and inclusions. Specifically, **the Group's conveying systems also allow ingredients to be pre-mixed during their handling**.

PiovanGroup proposes **dense and dilute phase pneumatic conveying** systems. These systems allow the handling of large quantities of raw materials over long distances, while maintaining the intrinsic properties of the food ingredients unchanged.

Vakupulse



DENSE-PHASE CONVEYING

From 740 up to 2,650 kg/h

Vakupulse is specifically designed to handle materials that need to be transported at low speed, such as abrasive materials that contain glass fibers or an high amount of filler and soft products like EVA or PE. The targets are:

- Avoid abrasion and wearing of the process piping in case of abrasive material
- Preserve the plastic granules in case of delicate or soft material, avoiding the creation of angel hair and dust.

The system is based on a cyclone installed on the unit, wich discharges material by batch into the below machine.

Vakupulse has a significant capacity up to 2.650 kg/h. The low transportation speed (of the conveying air is about 2 m/s) has also a beneficial impact on the energy consumption and on the noise level.



No degradation of the soft or delicate materials during conveying



No abrasion or wearing of the feeding pipe



Low noise emission and energy consumption



PET Preforms
& Bottles



Rigid
Packaging



Automotive
components



Technical
parts



Medical
solutions



Thermoforming
& Technical Sheets



Flexible Film



Pipes, Profiles,
Cables



Fibres &
Strapping



Recycling



Compounds

Conveying speed 3—10 m/s

Pressure range 0.5—5 bar

Max capacity 2,650 kg/h

	Max Capacity (kg/h)*	Pipe diameter (mm)	Max pipe lenght (m)	Load power (kw)
VP1	742	48,3	40	2,5
VP2	1149	60,3	45	2,5
VP3	1899	76,3	50	2,5
VP3	2646	88,9	70	6

* NOTE: performances are evaluated for the feeding of plastic granules, with a bulk density of 0.6 kg/dm³ and with a pipe route that includes 6 bends (maximum pipe route length according to the present table).

D450-550



PNEUMATIC LOADERS

Penta decided to develop a new compact and versatile filter; it is suitable for various uses and applies in industrial dedusting but is particularly suitable for small pneumatic transports with high dust loads.

Allow managing a wide range of products, choosing:

- Fitting filter media.
- Case-by-case assessment of ascending and crossing velocities.
- Ad hoc flushing timings.
- Handling of air flow rates up to 400 m³/h.



New design to empower the filtering and the cleaning cycle



Quick clamp system



Full A304 construction



PET Preforms
& Bottles



Rigid
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Compounds

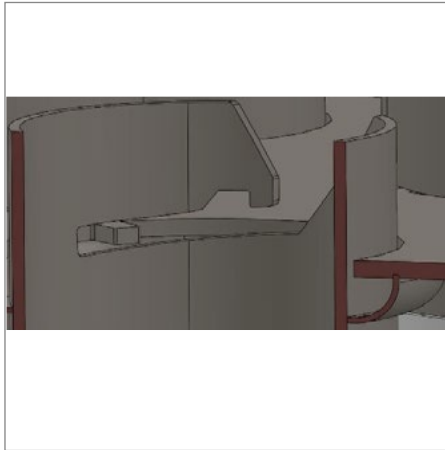
Max level of vacuum Suitable for absolute vacuum and +1bar positive pressure applications

Max air flow 400 m³/h

Filtering capacity Ø450 16 bags 4,1 m² | Ø550 20 bags 5,1 m²



Compressed air collector fully integrates inside the filter



Bayonet basket fixing system with bottom extraction

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