



The CY-VC vacuum feeder conveys powders and granules by vacuum suction in a fully enclosed path, with no dust leakage and no cross-contamination. Flexible in pipe routing, it generates no heat and is intrinsically safe — reducing workshop dust and saving labour. Widely used in pharmaceutical, food, chemical and new-energy industries.

Working Principle: A vacuum source creates negative pressure; material is drawn through the suction nozzle into the pipe and separated from air in the filter chamber — material falls into the hopper by gravity while clean air is filtered out. When the hopper is full the pump stops, the discharge valve opens, and back-flush cleans the cartridge before the next cycle. A cyclone pre-separator prevents fine powder from reaching the cartridge, extending filter life.

Key Features

- ◆ Intermittent or continuous operation with automatic PLC-controlled suction–discharge cycles
- ◆ Vacuum source options: water-ring pump, Roots pump, multi-stage generator
- ◆ High-precision filtration down to 0.3 μm ; cartridges in UHMWPE / polyester+PTFE / sintered titanium
- ◆ Food-grade 304 / 316L stainless contact parts; modular quick-release design for easy cleaning
- ◆ Pneumatically actuated components — no spark risk; explosion-proof and nitrogen-protection options
- ◆ Optional oscillator, secondary filter and arch-breaker available

Specifications

Model	Specification (mm)	Capacity (kg/h)	Power	Filter Area (m^2)	Material
VC-180	$\Phi 180 \times 700$	≤ 250	2.2 kW	0.45	304/316L
VC-250	$\Phi 250 \times 900$	≤ 500	4 kW	0.45	304/316L
VC-320	$\Phi 320 \times 1100$	≤ 1000	5.5 kW	0.9	304/316L
VC-430	$\Phi 430 \times 1500$	≤ 2000	7.5 kW	1.35	304/316L
VC-560	$\Phi 560 \times 1800$	≤ 3000	11 kW	2.7	304/316L
VC-800	$\Phi 800 \times 1600$	≤ 1200	15 kW	6	304/316L
VC-1200	$\Phi 900 \times 2150$	≤ 2500	22 kW	11	304/316L
VC-1800	$\Phi 1100 \times 2600$	≤ 4500	37 kW	15	304/316L
VC-2400	$\Phi 1400 \times 3250$	≤ 6000	45 kW	22	304/316L

※ Capacities are test data for selection reference; the final selection should be calculated by our technicians according to the material and process conditions.



◆ Selection notes: please provide material bulk density, particle size, flowability, moisture, required conveying rate, horizontal / vertical conveying distance and number of bends. Our engineers will calculate the model and vacuum source type.