KAWATA

Transpoter for Powder

POWDER LOADER

PL series

(PL series)

Simple structure design makes it possible to provid e (PL series)

optimal system structure for each different purpose

VP/VE series

(VP/VLseries)

Gravity, Ideal for Conveying Super-Fine Particles (VP/VE series)

Minimizing the Separation of Mixed Material of Different

- Mixing ratio increases by 3-5 times as compared to conventionaeljection methods with a compressor.
- The filter area is small and compact due to high-concentration suction conveying.
- Adjustable distribution and supply by suction.
- Energy consumption of 1/3 to 1/4 as compared to the use of thecompressed air.

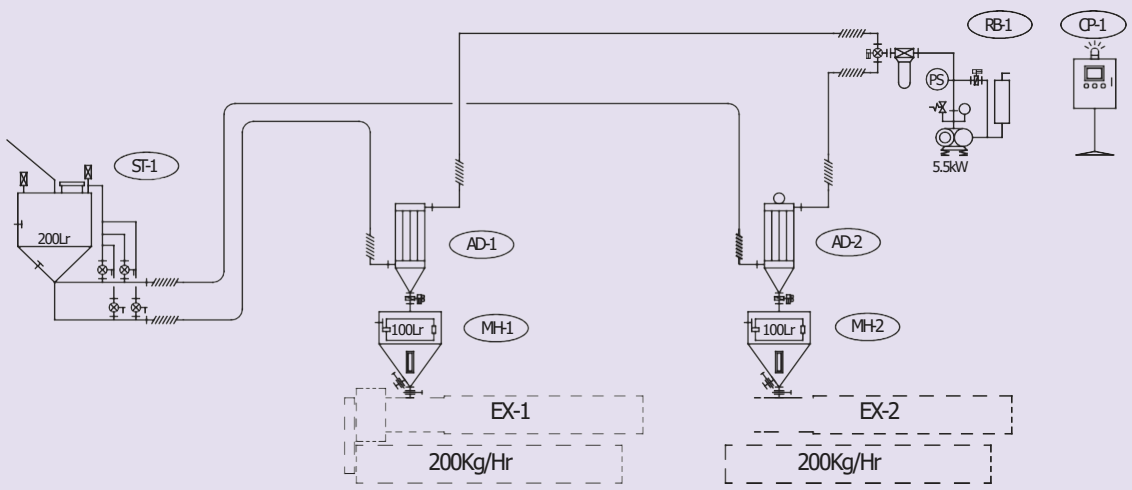
Specifications<Reference>

Model		PL
Hopper Capacity (L)		10
Filter	Filtering Area (m³)	0.75(desinged for the condtions)
	Material	Synthetic fiber (PTFE coating, antistatic available)
	Cleaning	Pulse jet type
Filter	Metal Touch Dumper	Auto-butterfly valve
		Auto-flapper dumper
Conveying Blower / Pump		Ejector (Root blower, Ring blower)
Conveying capacity		200kg/h (Max. 2000kg/h available)*1

*1 . Changes by condtion of conveying material and distance

☐ Option
Bridge breaker for discharge failure

Flow diagram



VP/VE series

Powder Conveying Unit # POWDER LOADER

- Easy to disassemble for cleaning
- Universal conveying for all types of powder material
- Load reducing nozzle for all types of powder material
- Light weight modules

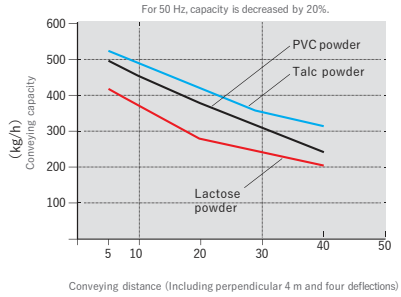
Ejector specifications

Model		VP-10	VP-20
Suction Loader Tank	Capacity (L)	10	20
	Material	SUS304	
	Finishing	Buff mirror finish	
	Weight (kg)	Approx.35	Approx.40
Filter	Filter Cleaning	Integrated into pump unit	
	Area (m^2)	0.25	
Conveying Hose (Internal Diameter) (m)		ϕ 25 × 5	ϕ 32 × 5
Suction Nozzle		ϕ 25	ϕ 32
Control Panel		Integrated into pump unit (AC200V/200、220V 50/60Hz) Power supply 3phase	
Pump	Capacity (kW)	1.5	2.2
	Ultimate Pressure (Pa)	10	
Compressed Air Requirement	(L/min(ANR)	20 (0.4～0.6MPa)	

* VE (ejector specification) available

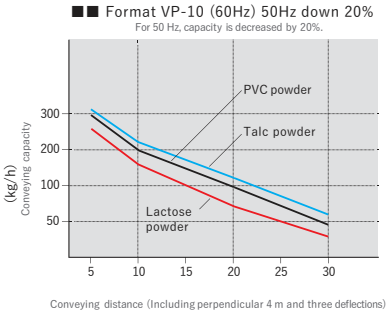
Pump performance

■ Format VP-20 (60Hz) 50Hz down 20%



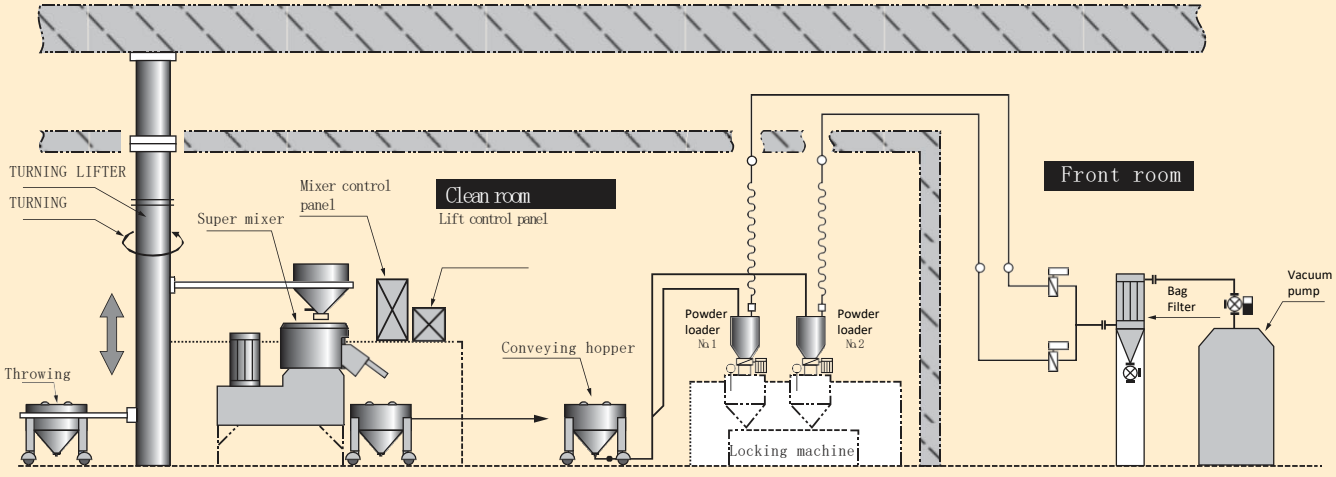
※The conveying capacity changes depending on characteristics of subject materials;Perform checking by testing, etc.

■■ Format VP-10 (60Hz) 50Hz down 20%



Flow diagram

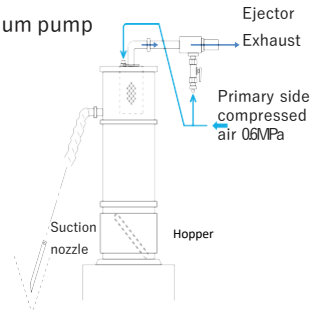
■ Pharmaceutical factory: Conveying (distribution) of mixed products



Ejector specifications

● The main specifications are the same as the vacuum pump

Items \ Model	VE-10	VE-20
Air source (compressed air)	0.6MPa 500L/min (ANR)	
Power supply	AC200V 50/60Hz single	
Conveying capacity (PVC powder) Distance 5m (vertical 3m including)	150kg/h	230kg/h



* Applicable transportation capacity is within max.10m.

Example of separated data after conveying

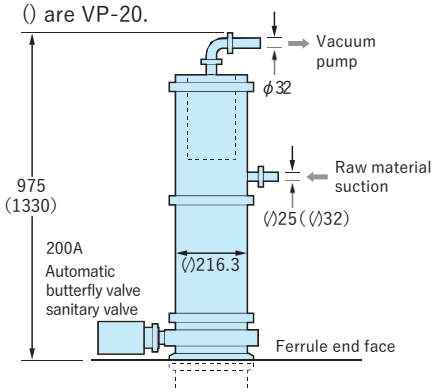
Elephant powder (mixture)	Mixing degree before conveying	Mixability after conveying	Distance
PVC: talc =95:5	98.4%	98.4% (No change)	Level 5m (Vertical 4m)
Lactose: talc =95:5	97.7%	97.7% (No change)	Level 10m (Vertical 4m)
PVC: talc =90:10	98.5%	94.3%	Level 20m(Vertical 4m)
		76.6% (Low-pressure conveying)	

* Measurement method: Reflected light amount measurement method

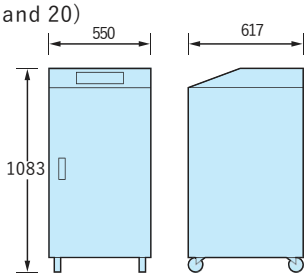
Dimensions

VP/VE series

■The dimensions inside the loader body () are VP-20.



■Control / pump unit (common to VP-10 and 20)



*These specifications are subject to change without notice.
*Please read the instruction manual carefully before use.