

Large Suction Flow Vacuum Generator

VLCP

NEW



Vacuum generator with a large suction flow rate suitable for conveying powders, granules, etc.

suction flow rate
1,000
L/min[ANR]



VLCP50

suction flow rate
4,800
L/min[ANR]



VLCP100

suction flow rate
14,300
L/min[ANR]



VLCP135

Characteristics

With a maximum flow path diameter of $\varnothing 135$ mm, a variety of workpieces can be transported.

High efficiency.

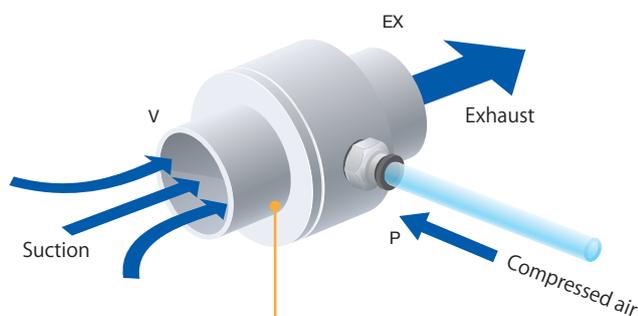
The suction flow rate averages 2.7 times the air consumption rate.

* Estimated value at a supply pressure of 0.5 MPa.

Maintenance free.

The straight-through design with a large diameter prevents clogging from powders and granules, requiring no maintenance such as disassembly or cleaning.

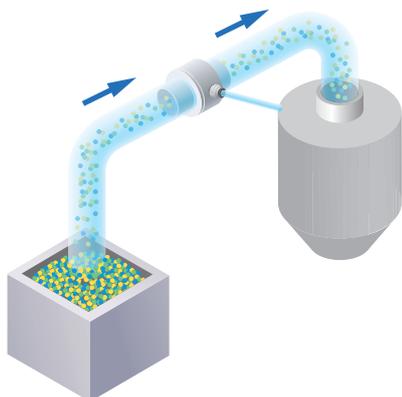
The suction flow rate can be controlled by adjusting the supply air.



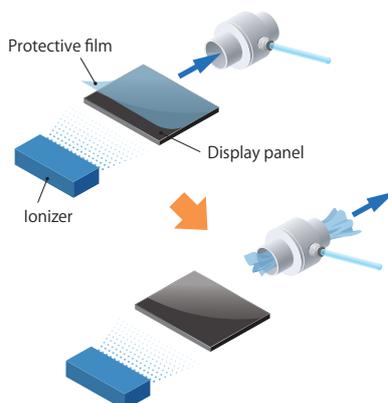
It can convey powders, pellets, etc. and also discharge smoke, mist, etc. Its large flow path diameter allows for waste collection as well.

Usage Examples

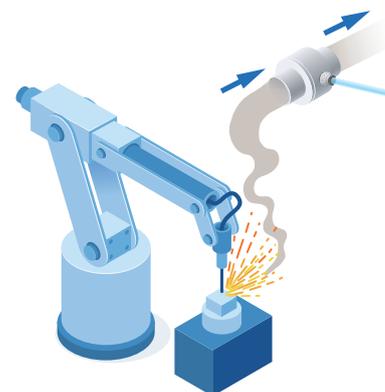
Conveyance of resin pellet



Collection of peeled film



Local exhaust



Large Suction Flow Vacuum Generator

Model Designation (Example)



(1) Large Suction Flow Vacuum Generator

(2) Size

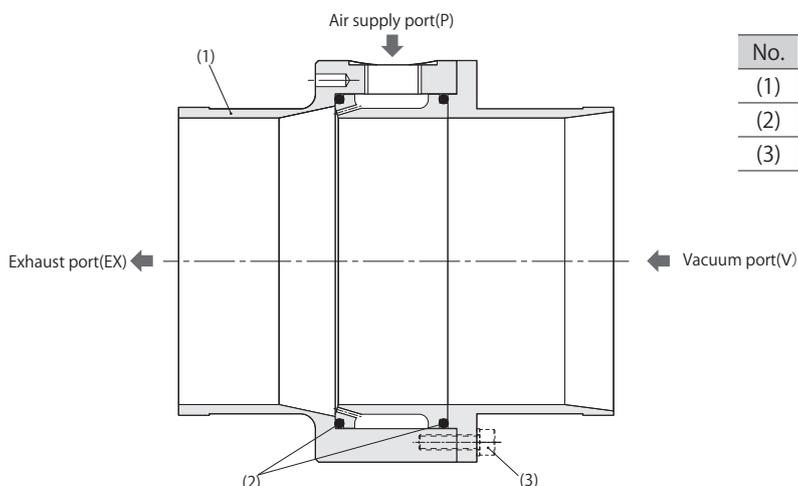
Code	Pipe diameter (mm)	Vacuum level (kPa)	Suction flow (L/min[ANR])	Air consumption (L/min[ANR])	Flow path diameter (mm)
50	ø51	-1.5	1,000	600	ø44.8
100	ø101	-0.1	4,800 (*)	1,200	ø95.0
135	ø144	-0.5	14,300 (*)	6,000 (*)	ø135.0

*The suction flow rate is a theoretical value when a supply pressure of 0.5 MPa is applied.

Specifications

Fluid medium	Air
Operating press. range	0 to 0.7 MPa
Operating temp. range	-5 to 80°C (No freezing)
Suction and exhaust noise level	98 dB[A] max. (Supply pressure: 0.5 MPa)

Sectional Drawing



No.	Parts	Material (Treatment)
(1)	Body	Aluminum (Anodized)
(2)	O-ring	NBR
(3)	Set screw	SUS304

⚠ Safety instructions for the product

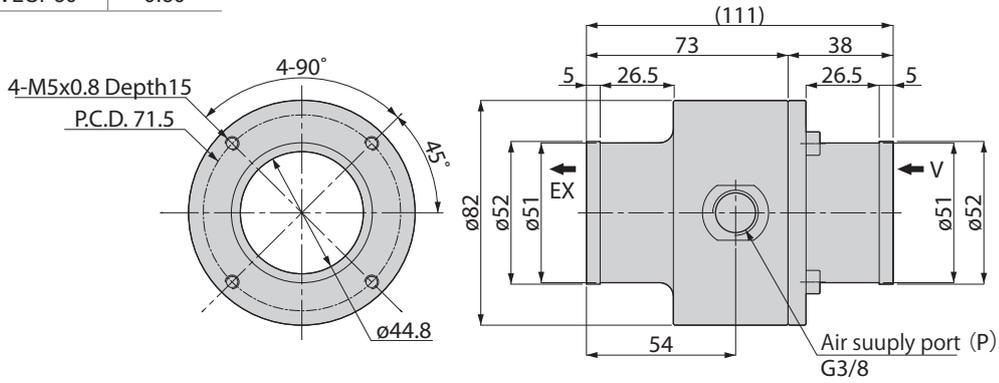
⚠ Caution

If the suction and exhaust noise level is a problem, please take safety measures such as covering the product with a sound insulating plate or using protective equipment.

Dimensional Drawing

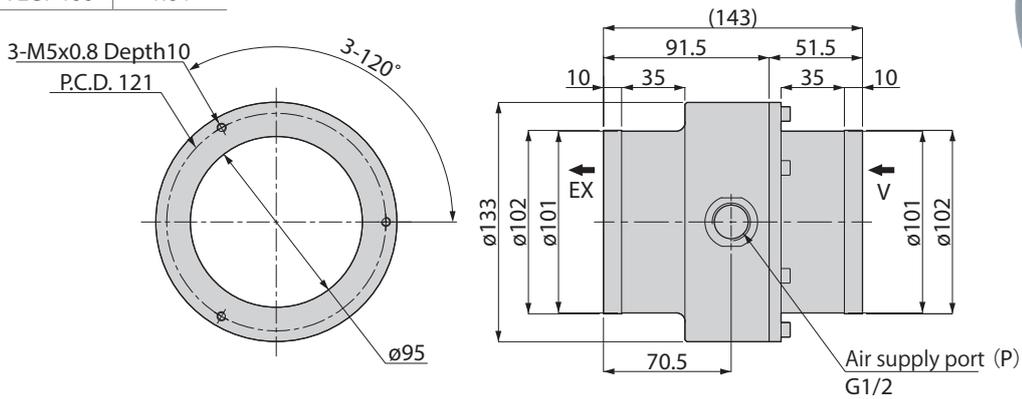
VLCP50 Pipe diameter $\varnothing 51$ mm type

Model code	Weight (kg)
VLCP50	0.50



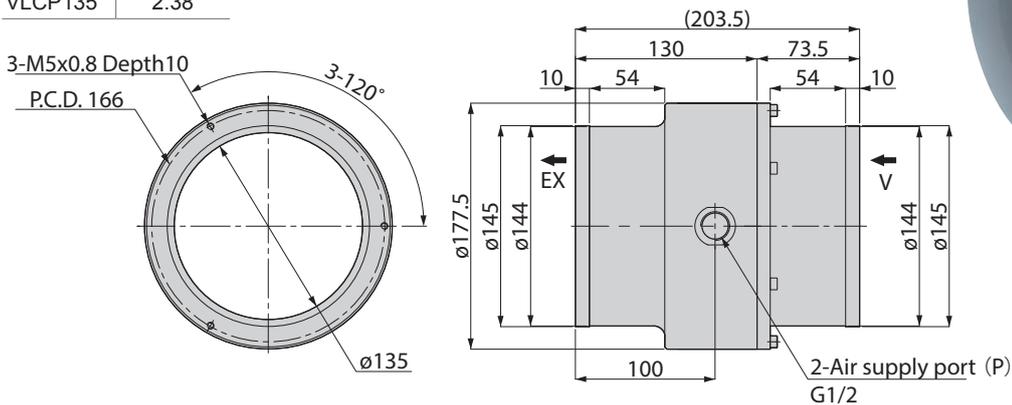
VLCP100 Pipe diameter $\varnothing 101$ mm type

Model code	Weight (kg)
VLCP100	1.04

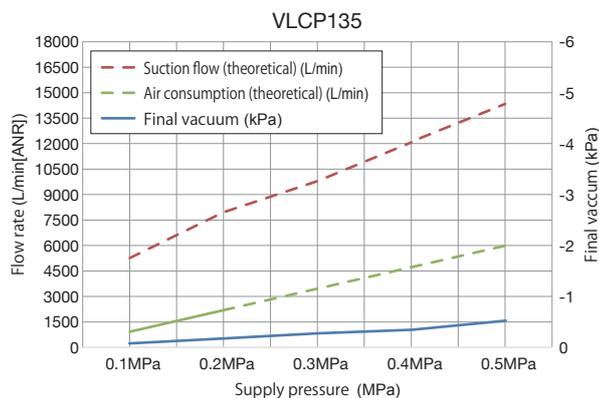
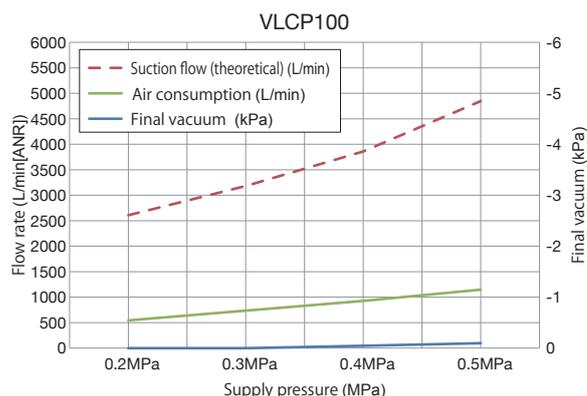
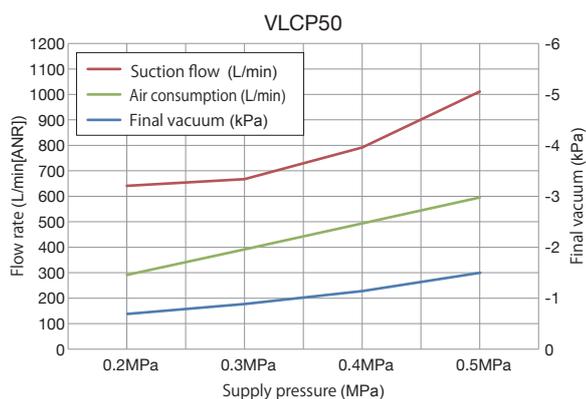


VLCP135 Pipe diameter $\varnothing 144$ mm type

Model code	Weight (kg)
VLCP135	2.38



Characteristic Graph



Optional parts

Tube fitting for air supply port

Type	Model code	Tube dia. (mm)	Thread size
Straight PC	PC10-G3	10	G3/8
	PC10-G4		G1/2
	PC12-G3	12	G3/8
	PC12-G4		G1/2
	PC16-G3	16	G3/8
	PC16-G4		G1/2
Elbow PL	PL10-G3	10	G3/8
	PL10-G4		G1/2
	PL12-G3	12	G3/8
	PL12-G4		G1/2
	PL16-G3	16	G3/8
	PL16-G4		G1/2

Tube for air supply port

Tube type	Model code	O.D.xI.D. (mm)	³ Tube length (m)	⁴ Tube color
Polyurethane tube UB	UB1065- ³ - ⁴	10x6.5	20	B : Black
			50	R : Red
			100	O : Orange
	UB1280- ³ - ⁴	12x8	20	YB : Ocher
			50	Y : Yellow
			100	G : Green
UB1611-20- ⁴	16x11	20	BU : Blue	
			CB : Clear Blue	
			C : Transparent	
			W : Milky white	

*1. For ³ in the model code, please select a code of tube length, and for ⁴, a code of tube color.

*2. Tube length : 50m option is available for Tube color B (Black) only.

About hoses for vacuum and exhaust ports

Toyofoods Earth (Anti-static)	Toyox Co., Ltd. https://www.toyox.co.jp/
Toyospring	
Toyofoods-S	
TAC SD-A	Totaku Industries, Inc. https://www.totaku.co.jp/
TAC SD-AS (Anti-static)	
TAC Eco SD-AS (Anti-static)	
Crystal Hose SF Type	TIGERS POLYMER CORPORATION https://tigers.jp/
Crystal Hose E Type	
Crystal Hose F-3 Type	

*1. For detailed hose sizes and specifications, please check the website of each manufacturer.

*2. No guarantee is provided that the contents listed in the table on the left can be used on Large Suction Flow Vacuum Generator.

PISCO®



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