

Installation specification

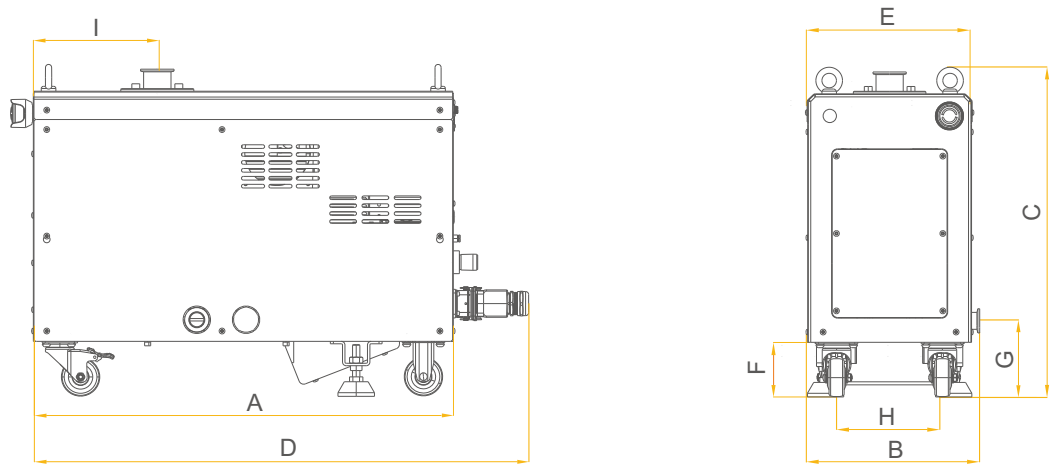


Fig. 1 VSU102/104/106 Product Dimensions

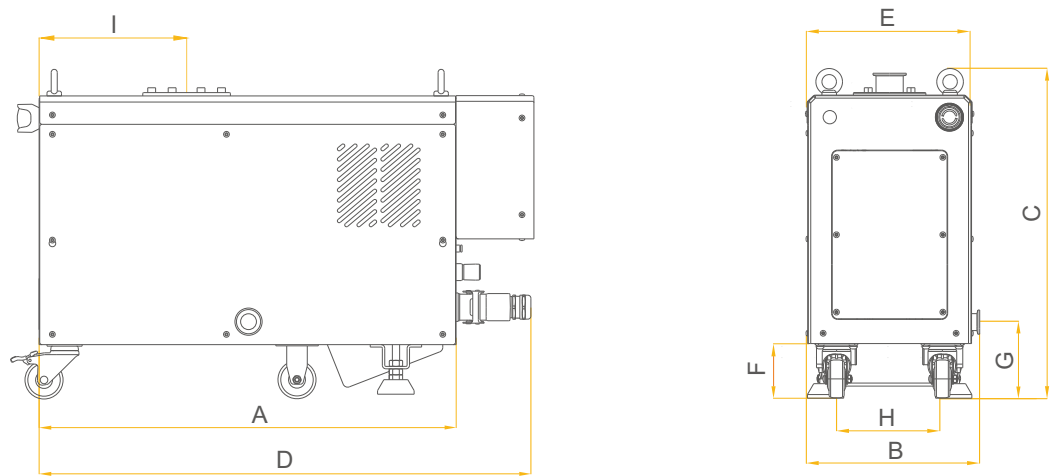


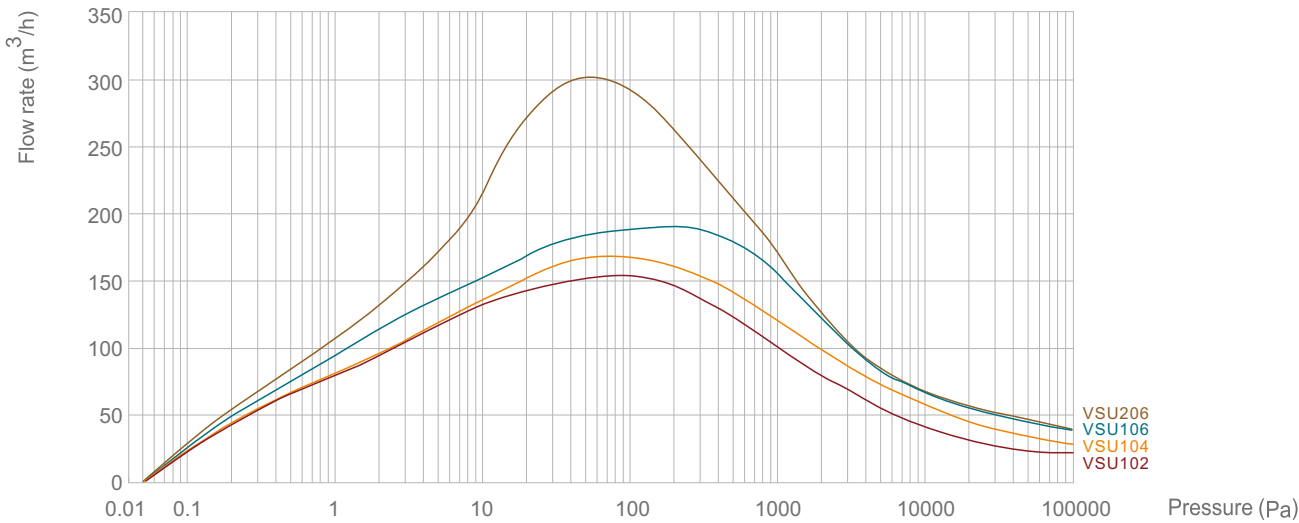
Fig. 2 VSU206 Product Dimensions

Dimension										
Model	A	B	C	D	E	F	G	H	I	DN
VSU102	680	288	545	850	262	90	128	165	204	KF40
VSU104	680	288	545	850	262	90	128	165	204	KF40
VSU106	680	288	545	850	262	90	128	165	204	KF40
VSU206	680	288	545	850	262	90	128	165	245	DN80

Specifications

Item		VSU102		VSU104		VSU106		VSU206	
Backing pump: Screw pump		VSP20		VSP40		VSP60		VSP60	
Model of Roots pump		VBP100i		VBP100i		VBP100i		VBP300S	
Power supply		Single-PH 220V / Three-PH 380V							
Pumping speed	m³/h	70		90		120		200	
Peak Pumping speed	m³/h	150		165		180		300	
Ultimate pressure	Pa	≤1							
Noise (at ultimate pressure)	dB	≤65							
Cooling mode		Air Cooling							
Maximum continuous inlet pressure	MPa	0.02							
Maximum exhaust pressure	MPa	0.103							
Water vapor handling capacity	g/h	370				450			
Motor	Rated power	kW		2.2		2.5			
	Ultimate operating total current	A	8	3	8	3	8	3	3
	Peak total current	A	18	7	22	9	32	11	35
	Cable	AWG	14				10(220V), 12(380V)		
Environmental Requirements	Operating temperature	°C		5~40					
	Operating humidity	20~80% (non-condensing)							
	Storage temperature	°C		-10~50					
Interface	Intake	KF		KF40				DN80	
	Exhaust	KF		KF25					
Lubricating oil	Gearbox oil volume	ml		800ml (PEPF Oil), 500ml (Mineral oil)					
Protection rating		IP		IP20					
N²	Air supply pressure	MPa		0.05~0.1					
	Pressure gauge reading								
	Connector	Φ6 Quick-Connect Air Hose Interface							
Weight	kg	90.5				103		113	
Dimensions(L*W*H)	mm	850*288*545							
Pollution degree		Pollution Degree 2							
Maximum operating altitude	m	2000							

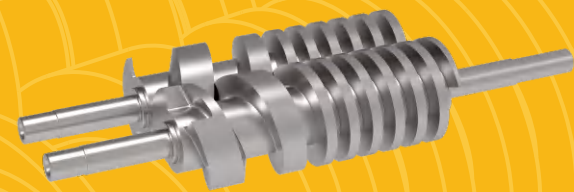
The curve graph of pumping rate



VSU Series Dry Screw Pump/Roots Pump Unit
Energy Efficient • Intelligent • Reliable



- High Compression Efficiency
- High Energy Efficiency
- Stable and Low Noise



Screw technology offers high efficiency, smooth operation, low noise, and strong adaptability among other advantages. It can provide stable and continuous vacuum level, reducing pulsation and vibration during operation, thereby minimizing device wear, and extending service life. It can also handle various media, adapting to different working environments, with simple structure and low maintenance requirements, reducing operational costs.

Highly Efficient and Intelligent

Intelligent control panel for easy and flexible control of process operations, remote control, and monitoring functions, IE4 certified



Multiple Working Condition Applications

Capable of evacuating condensable vapors, gases containing dust, corrosive substances, etc., without retention in the pump chamber, suitable for harsh applications

Low Operational Costs

Dry design, no oil changes required, clean and oil-free vacuum chamber
Multiple purge modes to reduce operational costs

High Reliability

Optimized design with step-by-step compression ratio
Stable pumping speed, excellent temperature control

VSU 102/104/106/206

Dry Screw Pump/Roots Pump Unit

VALUE's relentless pursuit of technological innovation has led to the introduction of the widely applicable VSU series dry pump units across various industries. With unique screw technology and outstanding high-efficiency drive systems, it offers wide pumping speed range, simple and compact structure, and friction-free pumping chamber components. Ideal for evacuating gases with small amounts of dust, featuring high ultimate vacuum, ensuring optimal pumping performance, low power consumption, and advantages such as energy efficiency and maintenance-free operation. For many years to come, you can enjoy exceptional pumping speed and lower operating costs.

- ① **Energy efficient, reducing operational costs**
- ② **Stable vacuum, ensuring process precision**
- ③ **Modular design, flexible adaptation to scenarios**



Coating



Laboratory



Plasma Cleaning



Photovoltaics