

Small Type Oil Rotary Vacuum Pump

Oil Rotary Vacuum Pump [VD Series Ver.C]

Specifications					
Model			VD151		VD201
Designed pumping speed	50Hz	m³/hr	14.4	20.2	
		L/min	240	336	
		cfm	8.47	11.89	
	60Hz	m³/hr	17.3	24.2	
		L/min	288	403	
		cfm	10.18	14.24	
Ultimate pressure *1	Gas ballast port close	Pa	0.67		
		Torr	5×10 ⁻³		
		mbar	6.7×10 ⁻³		
	Gas ballast port open	Pa	6.7		
		Torr	5×10 ⁻²		
		mbar	6.7×10 ⁻²		
Maximum water vapor tolerance	Gas ballast port open	Pa	500	1300	
		Torr	3.8	9.8	
		mbar	5.0	13.0	
Maximum water vapor capacity		g/h	40	138	
Motor	Type		Totally enclosed fan cooled 3 phase induction motor		
	Energy efficiency class		IE1*2		IE1
	kw (number of poles)		0.55(4)		0.75(4)
	HP (number of poles)		0.75 (4)		1 (2)
	Voltage *3	50Hz	200V ~ 240V/380V ~ 415V		
60Hz		200V ~ 240V/380V ~ 460V			
Oil			ULVOIL R-7		
Oil capacity		L	0.7 ~ 1.1		
Cooling method			Air cooled		
Inlet			KF25 equivalency		
Outlet			G1		
Weight		kg	29	34	
External dimensions WxDxH		mm	170×514×240	170×536×265	
Applicable standard			CE		
Standard accessory			A dose of oil, a set of manual		
Recommended oil mist trap (Optional)			TMX-1 + adapter flange		
Options			Oil mist trap		

*1 Measured with a Pirani gauge. (Approx. 6.7X10⁻³Pa when measured with a McLeod vacuum gauge.)
*2 The energy efficiency regulation is not applicable for this motor.
*3 Factory shipment setup is 200V class delta connection. Please change it to Y connection if working voltage is 400V class.
400V class Y connection presetting is available as an option.

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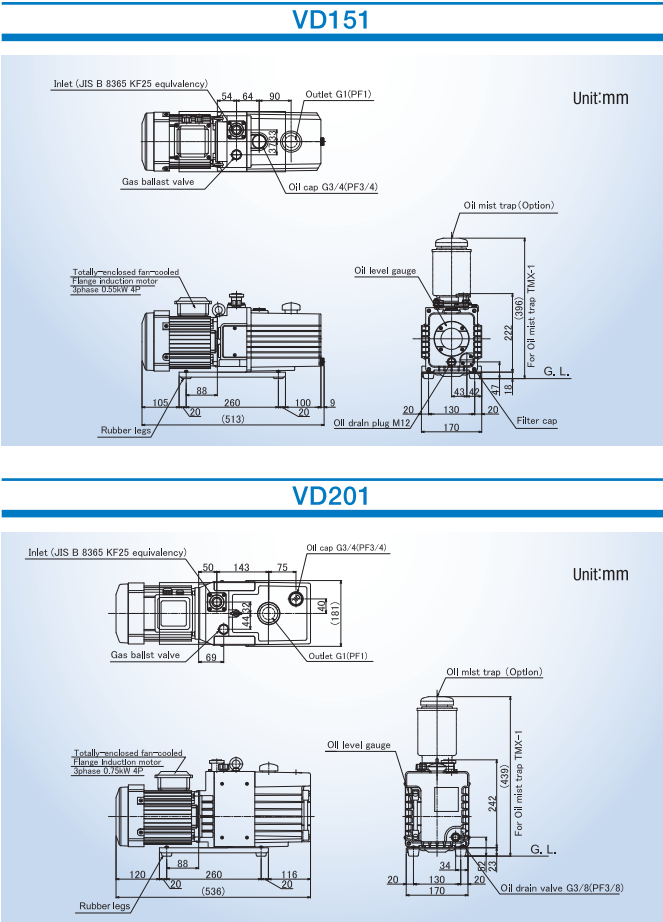
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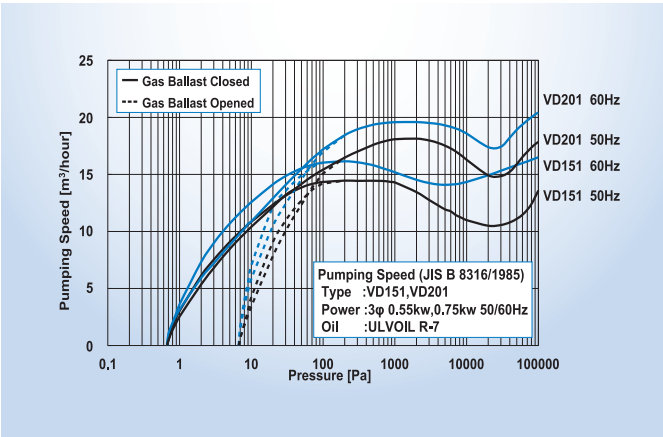
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► This catalog is published in order to sell this product in overseas. Please see Japanese catalog when purchasing in Japan.

► Dimensions



► Pumping Speed Curve



VD series is a direct-drive oil rotary pump with high efficiency (IE3) multi-voltage motor fully developed by ULVAC. This dual stage rotary vane mechanical vacuum achieves lower ultimate pressure. Design optimization realized quiet operation and so this pump is suitable for a wide range of applications.



High efficiency (IE3) multiple voltage motor

Features

- High efficiency (IE3) multiple voltage motor fully developed by ULVAC
A single motor can cover a wide range voltage, 200~240V/380V~460V.
- Forced oil circulation system
Pumping speed is stable even around atmospheric pressure. It is suitable for repeat and continuous running between atmospheric pressure and vacuum.
- Various options are available for special application
3 types, spec A, B and H, are available in addition to standard type for special application.

Applications

- Evaporation, sputtering, and ion plating
- Analytical instrument and leak test system
- Gas exchange, liquid filling
- Vacuum dry, freeze dry, vacuum deaeration, and vacuum insulation
- Vacuum chuck and vacuum molding
- Other vacuum equipments

Optional specification for special application

Spec	Model	O-ring	Oil seal on wetted surface	Oil seal on atmospheric side	Other specification
Standard	VD30C VD40C VD60C VD90C	FKM	FKM	FKM	—
Spec. A	VD30C-A VD40C-A	NBR	NBR	NBR	—
Spec. B	VD30C-B VD40C-B	NBR	Silicon rubber	NBR	Lubricating oil inside pump head does not flow to atmospheric side bearings. New oil separately flows to it from oiler.
Spec. H	VD30C-H VD40C-H VD60C-H VD90C-H	FKM	FKM	FKM	< 1E-6Pa·m³/s is kept by helium leak test. Lubricating oil inside pump head does not flow to atmospheric side bearings. New oil separately flows to it from oiler.

