

# Vacuum Pump ▶ Oil Rotary Vacuum Pump

## Double Stage Rotary Vane type VD series Ver. C

With high efficiency (IE3) full multi-voltage motor developed by ULVAC. For various kinds of application.



VD90C



Original  
IE3 Motor

Structure	
Single stage	Double stage
Rotary vane	Rotary plunger
Direct driven	Belt driven
Air cooled	Water Cooling
Forced oil circulation	Differential pressure oil circulation
Oil back flow prevention mechanism	Back flow prevention valve
Option	
Spec. A: Nitrile rubber	
Spec. B: Silicon rubber	
Spec. H: Helium tight	

- Single kind high efficient (IE3) full multi-voltage covers wide range voltage from 200 to 240V / 380 to 460V.
- Forced oil circulation makes pumping performance stable even near atmospheric pressure. Suitable for repetitive and consecutive operation between atmospheric and vacuum.
- Various specification A, B and H are available in addition to standard model.

Model		VD30C	VD40C	VD80C	VD90C
Designed pumping speed [m <sup>3</sup> /h] (LPM / CFM)	50Hz	30 (500 / 17.7)	40 (670 / 23.5)	60 (1,000 / 35.3)	90 (1,500 / 53)
	60Hz	36 (600 / 21.3)	48 (800 / 28.3)	72 (1,200 / 42.4)	108 (1,800 / 63.6)
Ultimate pressure [Pa] (Torr / mbar)	Gas ballast port closed	0.67 (5 × 10 <sup>-3</sup> / 6.7 × 10 <sup>-3</sup> )			
Motor	Output [kW] (Poles)	1.5 (4)	1.5 (4)	2.2 (4)	3.7 (4)
	Voltage [V]	200 to 240 / 380 to 415 (Multi-Voltage Motor)			
200 to 240 / 380 to 460 (Multi-Voltage Motor)					
Standard Oil		ULVOIL R-7			
Oil capacity [L]		1.0 to 2.5		2.5 to 4.0	
Cooling method		Air cooled			
Inlet port (optional)		VG40 (KF40)		VG50 (KF50 or ISO63F)	
Outlet port (optional)		VG40 (KF40)			
Weight [kg]		58	60	90	113
Dimensions W x D x H [mm]		210 x 660 x 324	210 x 680 x 324	280 x 761 x 371	280 x 831 x 371
Applicable standard		CE, cTUVus			

Specification	Model	Main Seal Material	Oiler Independent Lubrication	He Leak Test
Standard	VD30C, VD40C, VD60C, VD90C	Fluorine Rubber	n/a	n/a
Spec. A	VD30C-A, VD40C-A	Nitrile Rubber	n/a	n/a
Spec. B	VD30C-B, VD40C-B	Silicon Rubber	✓	n/a
Spec. H	VD30C-H, VD40C-H, VD60C-H, VD90C-H	Fluorine Rubber	✓	✓