

Oil Rotary Vacuum Pump[VD Series]

VD series is a direct driven low noise oil rotary vacuum pump. This pump is suitable for a wide range of application such as evaporator, sputtering and food packaging.

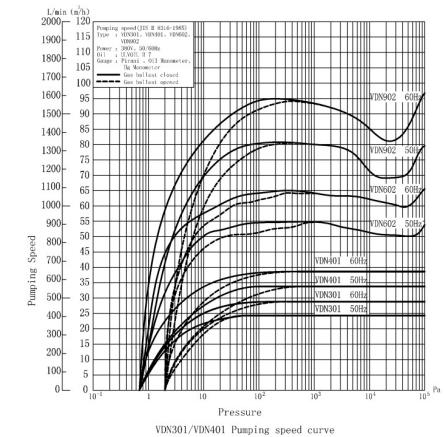


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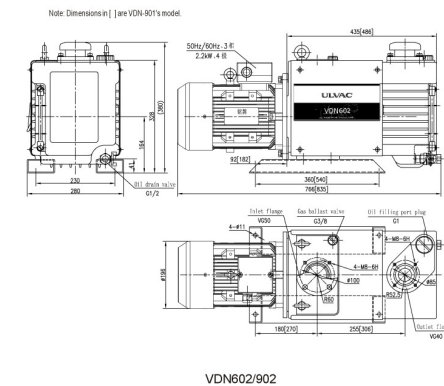
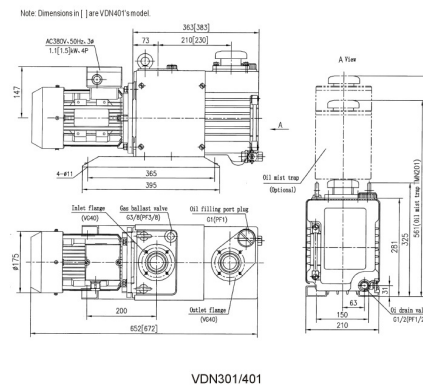
| Specifications | | | | | |
|--|---|----------------------|----------------------|----------------------|----------------------|
| Item | Model | VDN301 | VDN401 | VDN602 | VDN902 |
| Designed pumping speed m ³ /h(L/min) | 50Hz | 30 (500) | 40 (670) | 60 (1000) | 90 (1500) |
| | 60Hz | 36 (600) | 48 (800) | 72 (1200) | 108 (1800) |
| Ultimate pressure ¹⁾ Pa | G.V closed ²⁾ | 6.7X10 ⁻¹ | 6.7X10 ⁻¹ | 6.7X10 ⁻¹ | 6.7X10 ⁻¹ |
| | G.V opened ²⁾ | 2 | 2 | 2 | 2 |
| Motor | KW (Poles) | 1.1 (4) | 1.5 (4) | 2.2 (4) | 3.7 (4) |
| | Hz-V | 50-380/400/415 | 50-380/400/415 | 60-380/400/440 | 60-380/400/440 |
| Pump oil | | ULVOIL R-7 | | | |
| Oil capacity L | Minimum | 1 | | 2.5 | |
| | Maximum | 2.5 | | 4 | |
| Weight | kg | 59 | 61 | 88 | 105 |
| Options | Oil mist trap, Oil return mechanism, Gas ballast valve, Helium light, Oil cleaner, Oil-water separator. | | | | |

¹⁾ Measured with a Pirani gauge (Approx. 6.7 × 10⁻¹Pa when measured with a McLeod vacuum gauge).
²⁾ Gas ballast valve abbreviates as G.V.

Pumping Speed Curves

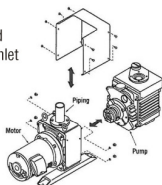


Dimensional drawing



Features

- ▶ Optimized design achieved quiet-running
- ▶ Easy maintenance
Pump body can be removed without disconnecting the inlet vacuum pipes.



Checking, adding, and changing oil are done at the same side on the pump to facilitate greater ease in performing routine maintenance and inspection. A variable oil capacity system extends the amount of time between oil additions.

Forced oil circulation system ensures stable pumping speed around atmospheric pressure

When equipped with the optional oil mist trap and oil return mechanism, these pumps can run continuously at pressures equal to or below atmospheric pressure.

Applications

- ▶ Evaporation, sputtering, and ion plating.
- ▶ Gas substitution, back-filling and vacuum insulation.
- ▶ Vacuum drying, freeze drying, vacuum degassing.
- ▶ Analytical instruments and leak testers.
- ▶ Vacuum packing, vacuum adsorption and transport, vacuum molding and vacuum casting.

Low Vacuum Pump