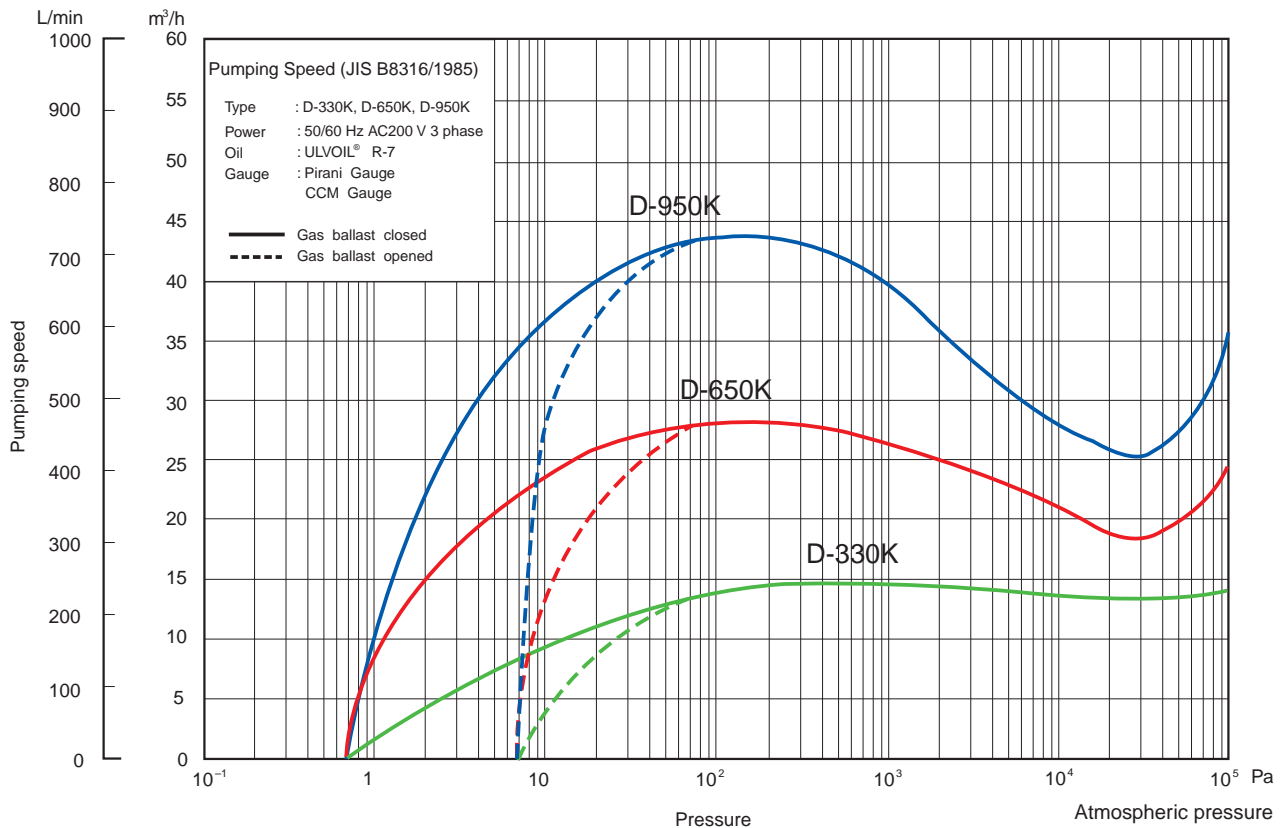


# Oil Rotary Vacuum Pump D-K Series

The D-K series is an improved model of the previous and very popular D series pump design. The D-K series pumps are designed and built using modern material engineering design methods and precision machining technology. They are highly reliable pumps and can be used in a broad range of applications.



## Pumping Speed Curve



**Features**

- Stable operation and high reliability**  
 Through the use of a newly developed springless vane design, problems resulting from spring breakage have been eliminated.
- Compact and lightweight**  
 The main body of the pump is designed using a high quality cast all aluminum alloy construction. As a result, the pump contains fewer parts, is compact, lightweight and very easy to maintain.
- Excellent abrasion and corrosion resistance**  
 All of the cast and machined aluminum alloy parts of this pump are treated with Tuftram®. This Tuftram® process applies an extremely durable anti-corrosion and abrasion resistant coating to all internal and external surfaces of the cast and machined aluminum alloy parts.
- Compatible with conventional models**  
 The external dimensions and suction and exhaust port sizes are exactly the same as previous models (D series).

**Specifications**

| Item                             | Model                             | D-330K   | D-650K              | D-950               |
|----------------------------------|-----------------------------------|--|---------------------|---------------------|
| Designed pumping speed*1         | m <sup>3</sup> /h (L/min)         | 19 (320)   | 38 (640)            | 58 (960)            |
| Ultimate pressure *2             | Pa                                | 6.7 x 10 <sup>-1</sup>                                   |                     |                     |
| Motor                            | kW (number of poles)              | 0.75 (4)   | 1.5 (4)             |                     |
| Oil capacity                     | L                                 | 1.5  | 1.8                 | 2.2                 |
| Pump oil *3                      |                                   | ULVOIL® R-7  |                     |                     |
| Cooling method                   |                                   | Air cooling  |                     |                     |
| Suction port diameter, JIS B2290 |                                   | 1B*4   | Corresponds to VG40 | Corresponds to VG50 |
| Exhaust port diameter, JIS B2290 |                                   | G1 1/2 (PF1 1/2)   |                     | G2 (PF2)            |
| Weight (pump + base)             | kg                                | 23   | 30                  | 35                  |
| Dimensions                       | L x W x H *6                      | 499 x 283 x 351  | 512 x 368 x 351     | 512 x 428 x 351     |
| Standard accessories             |                                   | Base, belt cover, motor pulley, V belt, oil (for 1 pump) |                     |                     |
| Options*5                        | Single phase capacitor start      | -  |                     |                     |
|                                  | Various types of 3 phase motors   |  |                     |                     |
|                                  | TMX-1 oil mist trap               |  |                     | TMX-2 oil mist trap |
|                                  | Pump base with handle and casters |  |                     |                     |

Note: SI units are used in this catalog. The following conversion can be used for non-SI units.

Ultimate pressure: 6.7 x 10<sup>-1</sup> Pa = 5 x 10<sup>-3</sup> Torr

\* 1 The designed pumping speeds are the same for both 50 Hz and 60Hz power source frequencies

\* 2 Measured with a Pirani gauge (Approx. 6.7 x 10<sup>-2</sup> Pa when measured with a McLeod vacuum gauge)

\* 3 Other oil types are available, upon request.

\* 4 D-330K is the suction tube model

\* 5 Designate the need for a motor, the motor model, voltage, and power frequency when ordering.

\* 6 L=length, W=width, and H=height

**External Dimension Diagram**

(unit: mm)

