

# PHV 50K-75K

## Dual Stage Rotary Vane Vacuum Pumps



### Product description

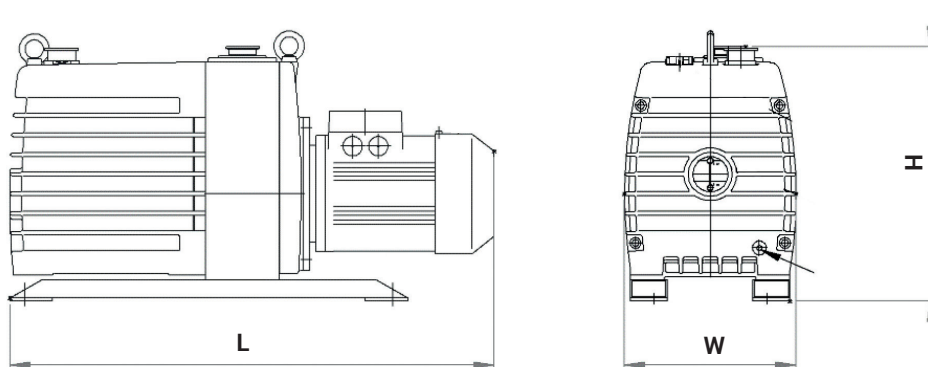
The PHV 50K and PHV 75K are dual-stage oil-sealed rotary vane pumps that deliver a pumping speed of 50-75 m<sup>3</sup>/hr at 50Hz, or 60-90 m<sup>3</sup>/hr at 60 Hz, and a base pressure of  $\leq 1 \times 10^{-3}$  mbar.

An inlet isolation valve is integrated into the pump to close off the inlet port whenever power to the pump is interrupted. This anti-backstream valve retains vacuum in the roughing, or foreline, and prevents pump oil from contaminating the vacuum chamber. The PHV 50K and PHV 75K have a manual gas ballast valve, which when opened, allows the pump to achieve its rated water vapor handling specification.

### Product applications

Heat Treatment Furnaces  
 Metallurgy  
 Liquefied Natural Gas (LNG)  
 Leak Detection  
 E-Beam Welding

### Outline drawing

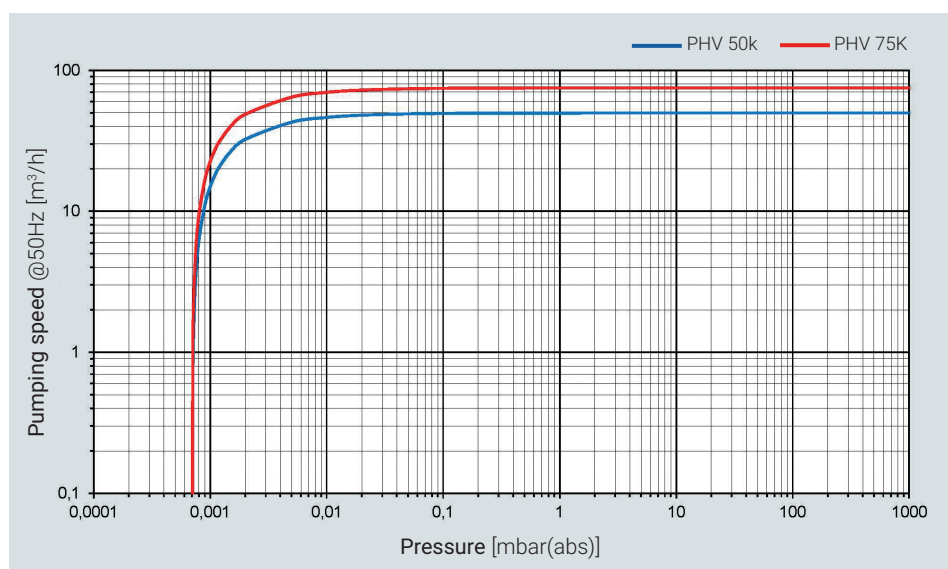


| Pump    | W [mm] | H [mm] | L [mm] | Weight approx [kg] |
|---------|--------|--------|--------|--------------------|
| PHV 50K | 250    | 370    | 709    | 68                 |
| PHV 75K | 280    | 415    | 791    | 84                 |

## Technical specifications

|                                      |       | PHV 50 K                | PHV 75 K                |
|--------------------------------------|-------|-------------------------|-------------------------|
| Pumping speed, [m³/h]                | 50 Hz | 50                      | 75                      |
|                                      | 60 Hz | 60                      | 90                      |
| Ultimate pressure GB closed, [mbar]  |       | $\leq 1 \times 10^{-3}$ | $\leq 1 \times 10^{-3}$ |
| Motor power, [kW]                    |       | 1.5                     | 2.2                     |
| Motor Speed, [rpm]                   | 50 Hz | 1450                    | 1450                    |
|                                      | 60 Hz | 1750                    | 1750                    |
| Water vapor tolerance, [mbar]        |       | 53                      | 53                      |
| Water vapor pumping capacity, [kg/h] |       | 1.97                    | 2.96                    |
| Fluid Charge, [Liter]                |       | 4.5                     | 6.5                     |
| Sound pressure level, [dB(A)]        |       | 56                      | 56                      |
| Inlet/Outlet Connection              |       | DN40 KF                 | DN40 KF                 |

## Pumping Speed Curve



## Ordering information

| Description                                | Part Number |
|--|-------------|
| DS RVP - PHV50K 230/400V, 50Hz//460V, 60Hz | X3751-64200 |
| DS RVP - PHV75K 230/400V, 50Hz//460V, 60Hz | X3751-64100 |

| Accessories                              | Part Number |
|--|-------------|
| Maintenance kit PHV 50 K                 | X3751-64210 |
| Maintenance kit PHV 75 K                 | X3751-64110 |
| AVF for PHV-K series pumps 7 liters      | X3760-64103 |
| Exhaust filter for PHV series Pumps      | X3751-64201 |
| Silent block feet for PHV-K series pumps | X3751-64202 |

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