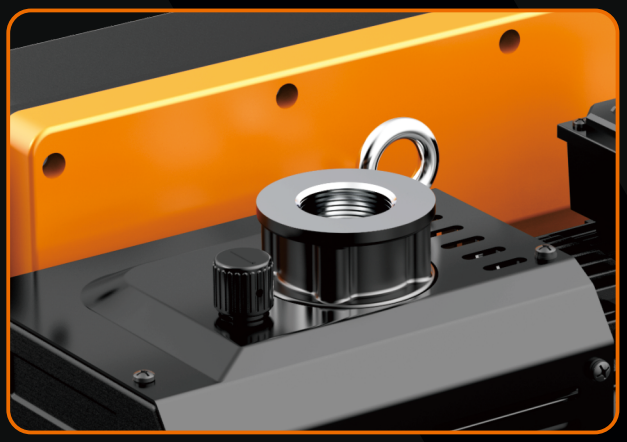
NAVAC
Empowering you to work smarter

# UniDrive

## Single-Stage, Oil Sealed Rotary Vane Vacuum Pump

**UniDrive** is a single-stage, oil-sealed rotary vane vacuum pump optimized for applications with high moisture content. Engineered with performance in mind, UniDrive offers unmatched reliability for industries such as food processing and packaging.



### Integrated Oil Mist Filter

High efficiency oil mist filters prevent oil vapor exhausting into the equipment space and smoking while also prolonging the service life.

### Gas Ballast

Adjustable gas ballast allows for the different requirements of condensable gas to be exhausted.

### Proprietary Motor

In-house designed and manufactured AC motor provides longevity and robust operation.




**UD20**

**UD300**

www.navacvacuum.com

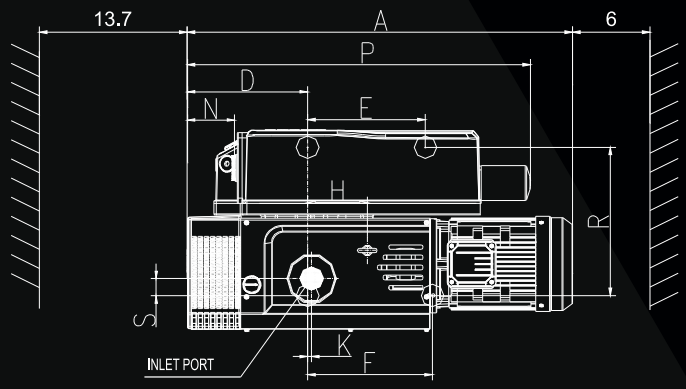
NAVAC
Empowering you to work smarter

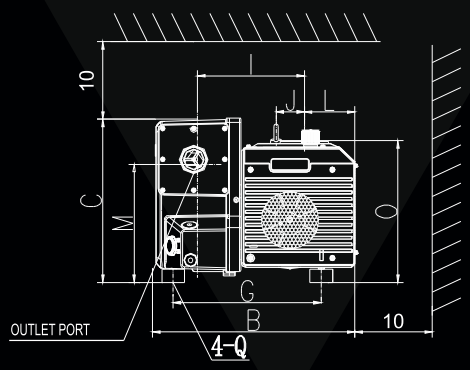
# UniDrive

## Single-Stage Oil Sealed Rotary Vane Vacuum Pump

| SPEC | | | UD20 | UD65 | UD100 | UD200 | UD300 |
|---|---|---|---|---|---|---|---|
| Pumping Speed (50/60Hz) | | $m^3/h$ (CFM) | 24 (14), 60Hz | 55 (32) / 65 (38) | 100 (59) /120 (71) | 200 (118) / 240(141) | 300 (177), 60Hz |
| Ultimate Pressure | w/o Gas Ballast | mbar (Torr) | / | $1x10^{-1}$ ($7.5x10^{-2}$) | $1x10^{-1}$ ($7.5x10^{-2}$) | $1x10^{-1}$ ($7.5x10^{-2}$) | $1x10^{-1}$ ($7.5x10^{-2}$) |
| | w. Gas Ballast I | mbar (Torr) | $2x10^{-1}$ ($1.5x10^{-1}$) | $2x10^{-1}$ ($1.5x10^{-1}$) | $2x10^{-1}$ ($1.5x10^{-1}$) | $2x10^{-1}$ ($1.5x10^{-1}$) | $2x10^{-1}$ ($1.5x10^{-1}$) |
| | w. Gas Ballast II | mbar (Torr) | / | 1 (0.75) | 1 (0.75) | 1 (0.75) | 1 (0.75) |
| Water Vapor Tolerance | w. Gas Ballast I | mbar (Torr) | 15 (11) | 15 (11.3) | 15 (11.3) | 30 (22.5) | 30 (22.5) |
| | w. Gas Ballast II | mbar (Torr) | / | 30 (22.5) | 30 (22.5) | 50 (37.5) | 50 (37.5) |
| Power Supply | | | Single Phase, 115V / 60 Hz | Three Phase, 380-415V 50 Hz, 220-230/460V 60 Hz | | | Three Phase, 460V / 60 Hz |
| Power Rating | | kW | 0.9 | 1.5 | 3 | 7.5 | 7.5 |
| IP Level | | | IP54 | IP54 | IP54 | IP54 | IP54 |
| Motor Speed (50/60Hz) | | rpm | 3440 (60Hz) | 1440/1720 | 1440/1720 | 1440/1720 | 1440/1720 |
| Inlet/Outlet | | | G1/2" G3/4"/- | G1-1/4"/G1-1/4" | G1-1/4"/G1-1/4" | G2"/G2" | G2"/G2" |
| Oil Capacity | | L | 0.45 | 2.5 | 2.5 | 8 | 8 |
| Noise Level (50/60Hz) | | dB | ≤70.5 (60Hz) | ≤65/67 | ≤65/67 | ≤79(60Hz) | ≤79(60Hz) |
| Weight | | lbs | 43 | 93.7 | 158.7 | 364.5 | 474 |
| Dimentions (L*W*H) | | in | 12.5x9.8x8.6 | 21.8x12.2x10.6 | 27.7x16x11.3 | 37.1x21x16.6 | 40.7x21.2x17.1 |

# Dimensions




Unit: inch

| Model | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | Inlet | Outlet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UD20 | 12.5 | 9.8 | 8.6 | 3 | 5.5 | 4.3 | 5.2 | / | 5 | / | 0.6 | 2.8 | 6.2 | 0.8 | 7.2 | 11.8 | M8 | 4.8 | 0.2 | G1/2" G3/4" | / |
| UD65 | 21.6 | 12.2 | 10.6 | 5.9 | 8.5 | 7.8 | 10 | 2.3 | 7.4 | 2 | 0.2 | 2.8 | 8 | 1.3 | 9.9 | 18.3 | M8 | 9.5 | 1.3 | G1-1/4" | G1-1/4" |
| UD100 | 27.8 | 16 | 11.3 | 6.5 | 8.9 | 8.9 | 12.6 | 5.2 | 8.9 | 1.7 | 1.1 | 3.6 | 8.7 | 2.1 | 11 | 22.6 | M10 | 10.2 | 1.6 | G1-1/4" | G1-1/4" |
| UD200 | 37.1 | 21 | 16.6 | 10.3 | 12 | 12 | 15.5 | 5.7 | 11.6 | 2.6 | 1.2 | 5.3 | 12.3 | 5.2 | 15.4 | 36.8 | M10 | 15.5 | 1.8 | G2" | G2" |
| UD300 | 40.7 | 21.3 | 17.1 | 12.8 | 13 | 13 | 15.5 | 16.3 | 11.2 | 3 | 0.4 | 5.3 | 13.1 | 5.2 | 15.1 | 36.9 | M10 | 15.5 | 1.8 | G2" | G2" |