

UniDrive QUICK START GUIDE

Single-Stage Oil-Sealed Rotary Vane Vacuum Pump
Models UD20 / UD65 / UD100 / UD300

NAVAC
Empowering you to work smarter

START-UP STEPS

1. Place the pump on a flat, level surface in a clean, dry, well-ventilated area. Leave 4–6 in. of clearance around the pump for cooling airflow.
2. Remove the oil fill cap on top. Slowly pour in the NAVAC vacuum oil until the level sits between the MIN and MAX marks on the sight glass. Replace the fill cap.
3. Connect the inlet to your vacuum system. Make sure the line is clean, leak-tight, and the system is not pressurized. Leave the exhaust open or routed to your exhaust line.
4. Set the gas ballast to the closed setting for normal operation. Use the open position only when pumping condensable vapors (water, solvents).
5. Plug the pump into a properly grounded outlet matching the voltage on the nameplate. A qualified electrician must connect the three-phase motor per the wiring diagram.
6. For three-phase models: briefly jog the motor and confirm rotation matches the arrow on the motor body. If wrong, disconnect power and connect the wires correctly.
7. Verify the exhaust port is unobstructed. Switch the pump ON. The pump will start immediately.
8. Let it warm up for ~15 minutes, then re-check the oil level through the sight glass. Top up if below the MIN line.

AT A GLANCE

AT-A-GLANCE	UniDrive
Power	1Φ (UD20) / 3Φ (UD65-UD300)
Inlet (Threaded)	G3/4" – G2"
Oil	NAVAC NPO46: UD20/UD65 NAVAC NPO68: UD100-UD300
Oil Capacity	0.45 – 8 L*
Power Rating	0.9 – 7.5 kW
Ult. Vacuum	5.0×10^{-1} Torr
Ambient	10 to 40 °C
Protection	IP54

⚠ By model — UD20: G3/4", 0.45L, 0.9kW.
UD65: G1-1/4", 2.5L. UD100: G1-1/4", 2.5L, 3kW. UD300: G2", 8L, 7.5kW.

BEFORE YOU START — SAFETY

- Three-phase models REQUIRE a qualified electrician for installation. A motor protection switch is required.
- Slope the exhaust line downward. If it must slope up, install a condensate trap to prevent oil contamination.
- Never block or restrict the exhaust.
- Surfaces stay HOT during operation and for up to 1 hour after shutdown.
- Do not pump flammable or explosive gases. Do not operate in fire/explosion-risk areas.

Need help?

NAVAC Technical Support: +1 877.MY.NAVAC Ext. 2 • techsupport@navacglobal.com • Full manual at navacvacuum.com
This Quick Start Guide is a summary. Always read the full User Manual before installation, operation, or service.