

DuoDrive QUICK START GUIDE

Dual-Stage, Oil-Sealed Rotary Vane Vacuum Pump
Models DD48 / DD65 / DD90



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. A qualified electrician must connect the three-phase motor per the wiring diagram. Required: SJT 4x16AWG cable, minimum circuit ampacity 15A. External overheat protection per CE Code Part I MUST be provided — the motor is not internally protected.
6. Briefly jog the pump (start, then stop within 1 second) and verify motor rotation matches the arrow on the motor. If reversed, 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

SPEC	DuoDrive
Power	Three Phase, 220-230VAC- Δ /460VAC-Y 60Hz / 380-415VAC-Y 50Hz
Inlet / Exhaust	KF40 / KF40
Oil Capacity	4 L
Oil	NAVAC NPO68
Ult. Vacuum	1.5×10^{-3} Torr
Ambient	10 to 40 °C
Cable	SJT 4x16AWG
Fuse / MCA	15A

⚠ Three-phase motor: installation requires a qualified electrician. External overheat protection must be supplied per CE Code Part I.

BEFORE YOU START — SAFETY

- Three-phase wiring MUST be performed by a qualified electrician. Verify rotation direction before sustained operation.
- External overheat / motor protection per CE Code Part I is REQUIRED — the motor has no built-in thermal cutout.
- Slope the exhaust line down and away from the pump. Upward slopes require a condensate trap or oil will backstream.
- Do not operate in areas with risk of fire or explosion. Do not pump flammable or explosive gases.
- Surfaces stay HOT during and for up to 1 hour after operation. Disconnect power before any service.

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.