

ShieldDrive i (Sdi)

QUICK START GUIDE

Dual-Stage BLDC Rotary Vane Vacuum Pump with Eco Mode

Models SD4i / SD8i / SD12i / SD16i



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.
6. Verify the exhaust port is unobstructed. Switch the pump ON. The pump will start immediately.
7. Let it warm up for ~15 minutes, then re-check the oil level through the sight glass. Top up if below the MIN line. Engage Eco Mode once your system has reached working vacuum to reduce noise and energy use.

AT A GLANCE

AT-A-GLANCE	SDI
Power	115V/60Hz or 200-240V 50/60 Hz
Inlet / Exhaust	KF25 / KF25
Oil	NAVAC NPO46
Oil Capacity	0.8 L
Ult. Vacuum	1.5×10^{-3} Torr
Ambient	10 to 40 °C
Cooling	Air-cooled
Eco Mode	YES

⚠ -1 versions: 115V/60Hz. -2 versions: 200-240V 50/60Hz.; Magnetic coupling for static sealing.

BEFORE YOU START — SAFETY

- The pump must be SWITCHED OFF before filling oil. Never add oil to a running pump.
- Do not pump liquids, flammable gases, or explosive vapors.
- Surface temperatures remain HOT during operation and for up to 1 hour after shutdown.
- When pumping condensable vapors, keep the pump running with the gas ballast open and the inlet closed for at least 30 minutes after the process to purge oil.
- Never operate without oil — the pump will fail. Always verify oil level on the sight glass before each start.

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.