

Domestic water booster pump quarterly maintenance checklist

A quarterly booster pump set round is short on purpose: it catches the wear items that fail between annual services. This checklist is sized for a tech with a phone. Every item says what to look at and the photo that proves the round happened. Work is commonly verified against IPC / UPC plumbing codes, manufacturer's published instructions. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The plumbing or building maintenance tech on the quarterly mechanical round. When: Every quarter, so a drifting setpoint or a lag pump that never comes on is caught before upper floors start losing pressure at peak draw.

Pressure and setpoint

- ☐ **Suction and discharge pressures read against setpoint**
Suction and discharge gauges compared to the target setpoint, transducer reading tracking the gauge, and a top-floor fixture opened to confirm real delivered pressure. 2 photos required
- ☐ **Set holds pressure through a draw without hunting**
Pressure stays inside the control band as a fixture is opened and closed, no rapid hunting or wide swing that points at a tank or transducer problem. 1 photo required

Sequencing

- ☐ **Lead-lag hand-off observed**
Demand raised enough to stage the lag pump in and back out, confirming the controller sequences rather than leaning on one pump. 2 photos required
- ☐ **VFD ramping smoothly where fitted**
Speed ramps up and down with demand instead of snapping between stops, no fault or alarm standing on the drive display. 1 photo required

Leaks and tank

- ☐ **Seals, fittings and manifold checked for leaks**
No weeping at the mechanical seals, unions or the manifold, no puddle or rust trail under the skid. 2 photos required
- ☐ **Bladder tank pre-charge sound**
Tank not waterlogged, no water at the air valve, set not short-cycling on small draws the way it would with a dead tank. 1 photo required