



Pressurisation Unit Maintenance Checklist

15 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Visual Checks

- ☐ Check the fill valve and strainer for blockages, scale or leaks
- ☐ Inspect pipework, unions and gauge tappings for leaks or weeping joints
- ☐ Verify the break tank level, ball valve operation and overflow path (where fitted)
- ☐ Inspect pump shaft seal for weeping or visible drips

Functional Checks

- ☐ Check system pressure is within the set range on the pressure gauge (cold and hot)
- ☐ Verify the pressurisation pump starts and stops at correct pressures (test by dropping pressure)
- ☐ Test the low-pressure and high-pressure alarm functions and BMS notification
- ☐ Inspect the pressure vessel pre-charge with a tyre gauge at the Schrader valve
- ☐ Check the expansion vessel bladder by tapping — water in the gas side indicates failure
- ☐ Check the water meter reading and trend make-up water consumption
- ☐ Check pump motor current against the data plate FLA
- ☐ Verify isolation valves on the unit operate freely and seat tight when closed

Safety Checks

- ☐ Verify the pressure relief valve operates freely and is piped to a visible safe drain
- ☐ Test the air gap and category 5 backflow protection on the mains feed (where applicable)

Record Keeping

- ☐ Record system pressure (cold/hot), make-up water consumption, alarm test results and any adjustments

Maintenance Frequency

Weekly

- Check system pressure gauge reading
- Visual check for weeping joints

Monthly

- Record make-up water meter reading
- Trend make-up consumption against baseline

Quarterly

- Test alarm functions
- Check fill valve and strainer
- Cycle the pressurisation pump on test

Every 6 Months

- Expansion vessel pre-charge check
- Pump current and seal inspection
- Backflow protection test

Annually

- Full service including expansion vessel pre-charge top-up
- Pressure relief valve manual test
- Review make-up water consumption trend year-on-year
- Calibration check on pressure switches