

Underground GRP water storage tanks Operation & maintenance manual

Operation and maintenance manual

Document Title: Underground GRP water storage tanks Operation & maintenance manual

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This manual is to be used in conjunction with the following products manufactured by Purewater Storage Ltd:

- **Underground GRP water storage tanks**

Underground GRP water storage tanks

Operation & maintenance manual

1: Introduction

This Operation & Maintenance Manual provides guidance for the safe operation, inspection, and maintenance of underground GRP (Glass Reinforced Plastic) water storage tanks supplied by Purewater Storage Limited.

2: System Overview

The underground GRP tank is designed for long-term storage of water for potable, firewater, process, or rainwater applications. Tanks are typically supplied complete with inlet, outlet, overflow, venting, and access manways.

3: Tank Construction (GRP)

All tanks are manufactured from woven GRP designed to meet relevant British Standards. GRP provides excellent corrosion resistance and long service life when installed correctly.

4: System Overview

Tanks operate passively as part of the site water system. Ensure the tank is clean and disinfected before first use. Filling should be carried out slowly while monitoring level and overflow performance.

5: Maintenance Requirements

Routine maintenance should include inspections of access covers, vents, overflow screens, pipe connections, and any level monitoring equipment.

6: Inspection Schedule

Weekly: Check water level readings

Monthly: Inspect covers, vents, and chambers

Quarterly: Inspect overflow and inlet strainers

Annually: Internal inspection (confined space controls required)

Every 2–5 years: Full clean and disinfection

7: Cleaning & Disinfection

Cleaning must be carried out by qualified personnel. Drain the tank safely, remove debris, wash internal surfaces, disinfect using approved chlorine solution, rinse thoroughly, and refill.

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8: Health & Safety

Underground tanks are confined spaces. Entry must only be carried out under a confined space permit, with gas monitoring, PPE, and rescue arrangements in place.

9: Troubleshooting

Low water level may indicate leaks or high demand. Overflow discharge may indicate inlet control failure. Poor water quality usually requires cleaning and disinfection.

10: Warranty

GRP tanks are supplied with a standard manufacturer warranty subject to correct installation and maintenance.