

Unvented Cylinder Service Record

An unvented hot water cylinder (G3) annual service: cylinder and heat source, inlet pressure, expansion vessel charge, relief valves, energy cut-out, tundish and discharge, temperature setting and the next service.

1. Cylinder

Project

Client

Site *

Site address

Service date *

Time

Engineer and G3 qualification *

Cylinder make and model *

Scan the data label

Scanned in the SiteSurvey app. On paper, write the numbers: serial number, model number.

Capacity (litres)

Heat source (choose one)

- ☐ Boiler (indirect)
- ☐ Immersion heater (direct)
- ☐ Heat pump
- ☐ Solar and boiler

Building Regulations requirement G3(3): a hot water system with a storage vessel must stop the stored water ever exceeding 100°C, and any discharge from safety devices must be safely conveyed to where it is visible. Approved Document G says an unvented system should have at least two independent safety devices as well as the thermostat, and advises choosing an installer with the right skills, for example one registered with a competent person scheme. The Hot Water Association's servicing guide recommends a service every 12 months, and regular servicing is usually a condition of the manufacturer's warranty.

2. Checks

Incoming mains pressure (bar)

Pressure reducing valve setting (bar)

Expansion vessel pre-charge (bar)

Pre-charge the manufacturer specifies (bar)

From the cylinder's installation and servicing instructions or the vessel label.

Pre-charge against the specification (bar) (if applicable; worked out automatically in the app)

Pre-charge correct for the system?

☐ Yes ☐ No

Stored water temperature (°C)

Stored temperature against 60 °C (if applicable; worked out automatically in the app)

If applicable: Stored below 60 °C. HSE's HSG274 Part 2 says hot water should be stored at least at 60 °C to control legionella. Record the reason and how the risk is controlled, for example a scheduled high-temperature cycle on a heat pump.

Temperature and pressure relief valve operated and reseats (choose one)

☐ OK ☐ Defect

What is wrong? (if applicable)

Expansion relief valve operated and reseats (choose one)

☐ OK ☐ Defect

What is wrong? (if applicable)

Energy cut-out (non self-resetting) tested (choose one)

☐ OK ☐ Defect

What is wrong? (if applicable)

Tundish visible, discharge pipe and termination safe (choose one)

☐ OK ☐ Defect

What is wrong? (if applicable)

Pipe from the valve outlet to the tundish (mm)

Discharge pipe D1, measured with a tape.

Vertical drop below the tundish before the first bend (mm)

Discharge pipe D2, measured with a tape.

D1 against 600 mm (if applicable; worked out automatically in the app)

D2 drop against 300 mm (if applicable; worked out automatically in the app)

If applicable: Approved Document G (paragraphs 3.54 and 3.56) says there should be no more than 600 mm of pipe between the valve outlet and the tundish, and the D2 pipe should have a vertical section at least 300 mm long below the tundish before any elbow or bend. Record what was found and the fix.

Line strainer cleaned (choose one)

☐ OK ☐ Defect

What is wrong? (if applicable)

No leaks or signs of discharge (choose one)

☐ OK ☐ Defect

What is wrong? (if applicable)

Checks with a defect (worked out automatically in the app)

Safety device defects (worked out automatically in the app)

If applicable: A safety device has a defect. Never bypass the energy cut-out or relief valves: replace the faulty device before the cylinder is used.

Photos of the cylinder, valves and tundish (photos: attach, or note the file names)

3. Result

Result * (choose one)

☐ Safe and serviced ☐ Serviced, parts needed ☐ Unsafe: left off

Parts and work needed (if applicable)

Benchmark or manufacturer's service record completed?

☐ Yes ☐ No

Next service due

Customer name

Customer signature

Completed by *

Signature