



FOOD INDUSTRY

Apple Packing Facility Industrial Water Heater Treatment **US Northwest**

HydroFLOW® reduced scale on ageing heaters in 2011, helping them operate for 14 more years. When new heaters were fitted in 2025, treatment was upgraded with latest HydroFLOW® units.

>70%

Limescale Deposit
Reduction



Maintenance

14 years

Extended Heater Operation



Longer Equipment Life



BEFORE & AFTER

BEFORE

- Scale fouled heater tubes and tank walls
- Maintenance demand was extensive
- Premature equipment failure was a risk

AFTER

- ✓ Deposits reduced by over 70% in three months
- ✓ Existing heaters ran for 14 more years
- ✓ New heaters protected with monitored treatment



BEFORE

Heavy scale on ageing heater components



AFTER

Over 70% less scale after three months

OVERVIEW

An apple-packing facility in the US Northwest uses industrial water heaters for apple washing. In 2011, *HydroFLOW*® was installed to treat three ageing heaters nearing the end of their expected life. Scale fell by over 70% within three months, and the heaters operated for 14 more years. In late 2025, they were replaced with high-efficiency models, followed by an upgraded *HydroFLOW*® i60 in January 2026.

SOLUTION

A *HydroFLOW*® unit was first installed in 2011. With new heaters fitted in late 2025, the facility upgraded to latest *HydroFLOW*® units in January 2026 with *HydroKNCT* as a monitoring device.

INITIAL UNIT INSTALLED

1x *HydroFLOW*® unit

2026 UPGRADE

1x *HydroFLOW*® i60

INITIAL INSTALLATION POINT

Incoming water line feeding three heaters

FACILITY-WIDE USE

6x *HydroFLOW*® units over 15 years



INSTALLATION

Initial HydroFLOW® unit on heater feed



INSTALLATION

Upgraded i60 installed



MONITORING

HydroKNCT remote monitoring device

RESULTS

Over 70% Deposit Reduction

Scale on heater tubes and tank walls reduced by over 70% within three months.

14 Additional Years

The ageing heater bank remained operational for another 14 years after installation.

Maintenance Burden Reduced

Major deposit reduction addressed the extensive scale-related maintenance problem.

New Heaters Protected

HydroFLOW® was upgraded to help protect the new high-efficiency heater bank from scale.

KEY TAKEAWAY**15-Year Water Heater Summary**

HydroFLOW® reduced limescale deposits by over 70% within three months on three ageing water heaters. The heaters then remained operational for a further 14 years. When they were replaced with high-efficiency models, the facility upgraded to latest *HydroFLOW®* units with *HydroKNCT* IoT device was installed and linked with the *Hydropath Care* remote monitoring software.

>70%

DEPOSIT REDUCTION

14 years

EXTENDED HEATER OPERATION



MAINTENANCE REDUCED

**ADDITIONAL PHOTO EVIDENCE****SITE***Apple-packing facility in the US Northwest***SYSTEM***Heated water supplied to the apple-washing process***BEFORE***Heavy limescale removed from the heater system***BEFORE***Heavy limescale coating the heater component***AFTER***Reduced deposits on the same heater component***RESULTS***Limescale debris released from the heater system***HYDROPATH** **Ready to protect industrial water-heating equipment?**

Speak to Hydropath about limescale treatment and remote system monitoring.

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