

PRODUCT WORKFLOW STUDY

From forgotten filters to a visible water-filtration maintenance lifecycle

A filtration workflow showing how Corexa can connect filter identity, usage, water-quality context, replacement jobs, reset events, diagnostics and reorder planning to the machine it protects.

Evidence level stated clearly throughout

Repository-reviewed

Capability basis

Filtration lifecycle

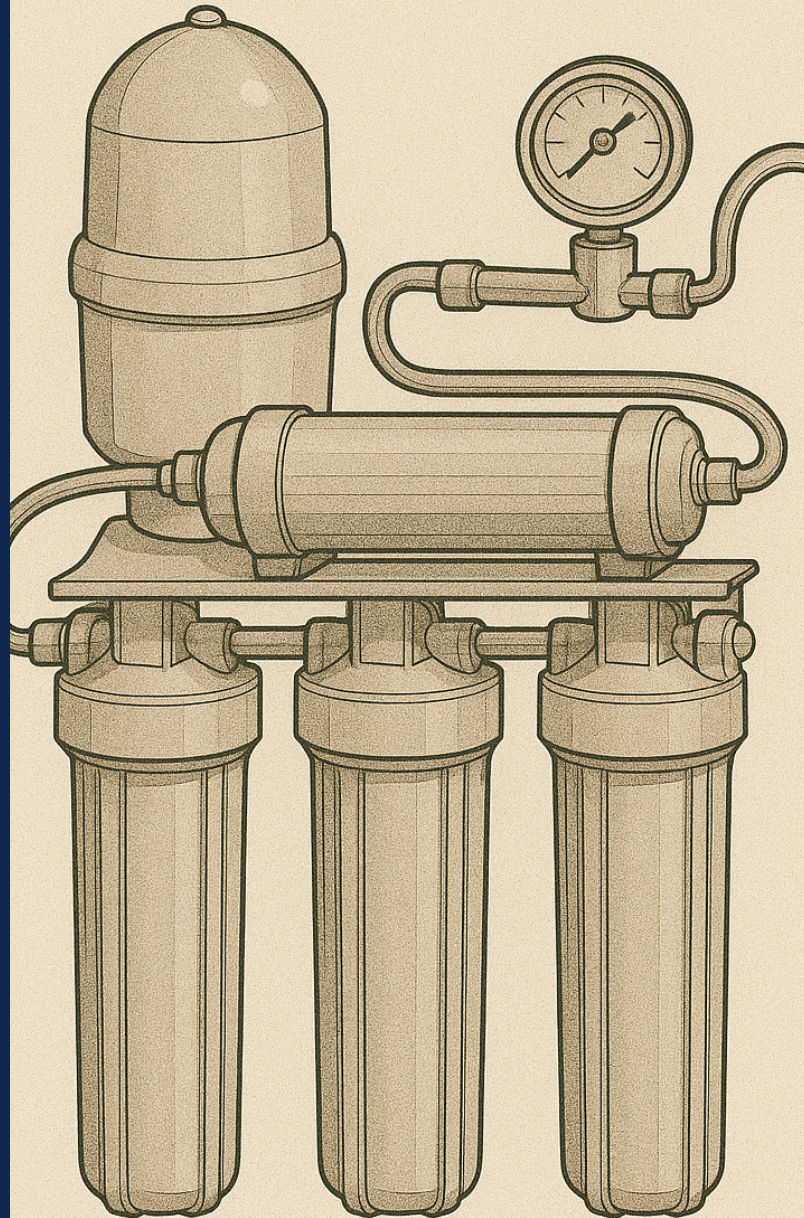
Primary workflow

Machine protection

Operational value

Pilot required

Outcome standard



THE CHALLENGE

Why the existing process breaks down

Water filtration is easy to overlook because the filter is usually out of sight and may continue flowing after its effective capacity has been exceeded. Replacement schedules based only on calendar dates can ignore usage and local water conditions, while emergency replacement after scale or flow problems is already too late.

01

Filter identity is unclear

The machine record may not show which cartridge, system or capacity is installed.

02

Usage is not visible

The team cannot relate estimated water use to the filter capacity or last reset.

03

Replacement is calendar-only

A fixed date may be too early for one site and too late for another.

04

Service does not reset state

A replaced filter may remain overdue because usage and maintenance state were not updated.

05

Water symptoms are separated

Taste, odour, flow, pressure and scale concerns may not be connected to filtration history.

06

Reordering is reactive

Replacement stock is purchased only after the service visit or customer complaint.

The central risk

A filter can appear operational while no longer providing the protection assumed by the machine owner or service provider.

THE OPERATING MODEL

A connected workflow around the machine

Corexa can connect the installed filtration system to machine history, usage calculations, water-quality guidance, replacement work, reset events and stock-reorder signals.

1

Configure

Record filter type, capacity, install date and relevant water context.

2

Monitor

Estimate usage and compare condition or elapsed time with the expected lifecycle.

3

Alert

Surface approaching replacement, overdue state or relevant water symptoms.

4

Replace

Create or complete the filtration service and record the installed component.

5

Reset

Confirm replacement, restart usage and plan the next reorder or service.

COREXA CAPABILITY	OPERATIONAL CHANGE	WHY IT MATTERS
Filter configuration	Associates filtration details with the machine or site.	Replacement guidance can reflect the installed system rather than a generic reminder.
Usage and health logic	Supports calculations and validation for filter life and condition.	The maintenance view can consider more than elapsed calendar time.
Water-filter diagnostics	Provides structured guidance for flow, water quality, installation and emergency issues.	Symptoms can be assessed alongside filtration maintenance context.
Replacement job workflow	Connects filter replacement to a service job and machine history.	The maintenance event becomes visible to the owner and future technician.
Usage reset	Provides an explicit action to restart filter usage after verified replacement.	The next lifecycle begins from a documented service event.
Reorder monitoring	Includes scheduled logic and preferences for filter reorder activity.	Stock planning can begin before replacement becomes urgent.

CREDIBILITY STANDARD

What is supported - and what is not yet claimed

A credible case study distinguishes repository evidence, real workflow scope and future outcome hypotheses. The evidence level below is deliberately explicit.

✓ Repository capability

The repository includes filter calculations, health utilities, data validation, extensive water-filter diagnostics, replacement routes, reset usage and reorder checks.

✓ Lifecycle coverage

Configuration, symptoms, service, replacement and next-cycle planning appear within the product scope.

✓ Credible limitation

Accurate filter life depends on correct product data, water conditions and usage inputs; estimates must not be presented as laboratory certainty.

✓ Pilot requirement

A site cohort should compare recorded replacement timing, usage assumptions, symptoms and actual cartridge changes.

Not yet claimed: this case study does not present a measured productivity, revenue, accuracy or customer-satisfaction improvement. A controlled baseline and participant-approved result are required before those claims are published.

Measurement plan for the publishable version

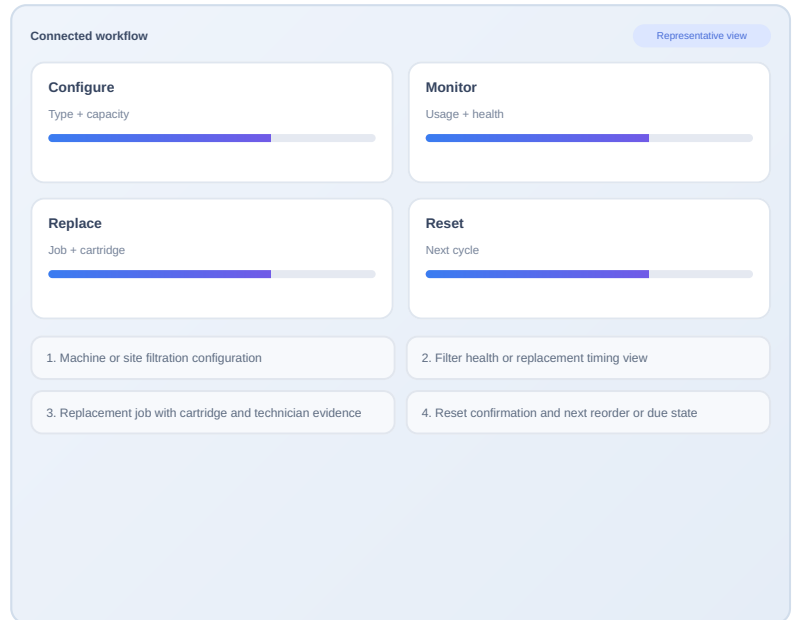
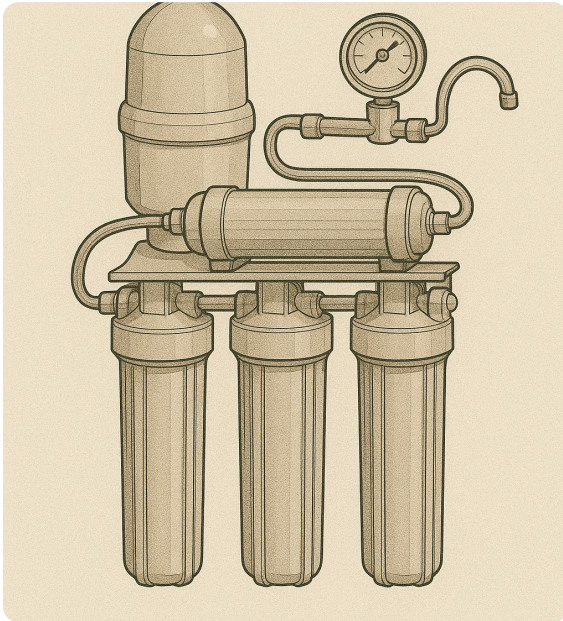
MEASURE	EVIDENCE SOURCE	CREDIBLE REPORTING
Filter record completeness	Machine and site audit	Percentage with confirmed filter type, capacity and install date.
On-time replacement	Replacement history	Percentage replaced within the agreed operating threshold.
Reset compliance	Service event audit	Percentage of replacements followed by a verified usage reset.
Emergency filtration issues	Job classification	Flow, leak, contamination or scale-related events per site.
Reorder lead time	Stock and service timestamps	Days between reorder signal and required replacement.
Usage-estimate variance	Site meter or consumption sample	Difference between calculated and observed water use where measurable.

"A filter replacement becomes reliable when the installed product, usage, service event and next cycle all belong to the same machine record."

MAKE THE STORY TANGIBLE

Show one complete filter cycle from installation to reset

Use the actual filter record, usage or health view, relevant alert, replacement job, installed-part evidence and reset confirmation. Add the assumptions used in any life calculation.



Recommended evidence-building sequence

Phase 1 - Filtration audit

Verify installed systems, replacement records and current usage assumptions at selected sites.

Phase 2 - Controlled lifecycle

Track each site from current state through the next verified replacement and reset.

Phase 3 - Verified result

Report record completeness, timing, reset and emergency-issue measures with assumptions stated.

Build the publishable proof layer

Replace representative views with dated interface screenshots, a defined baseline, system-derived measures and an approved participant quotation.

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Publication note: capability descriptions are based on the Corexa repository supplied in July 2026. Confirm the deployed workflow, permissions, integrations and data quality before presenting a capability as a completed customer outcome.