

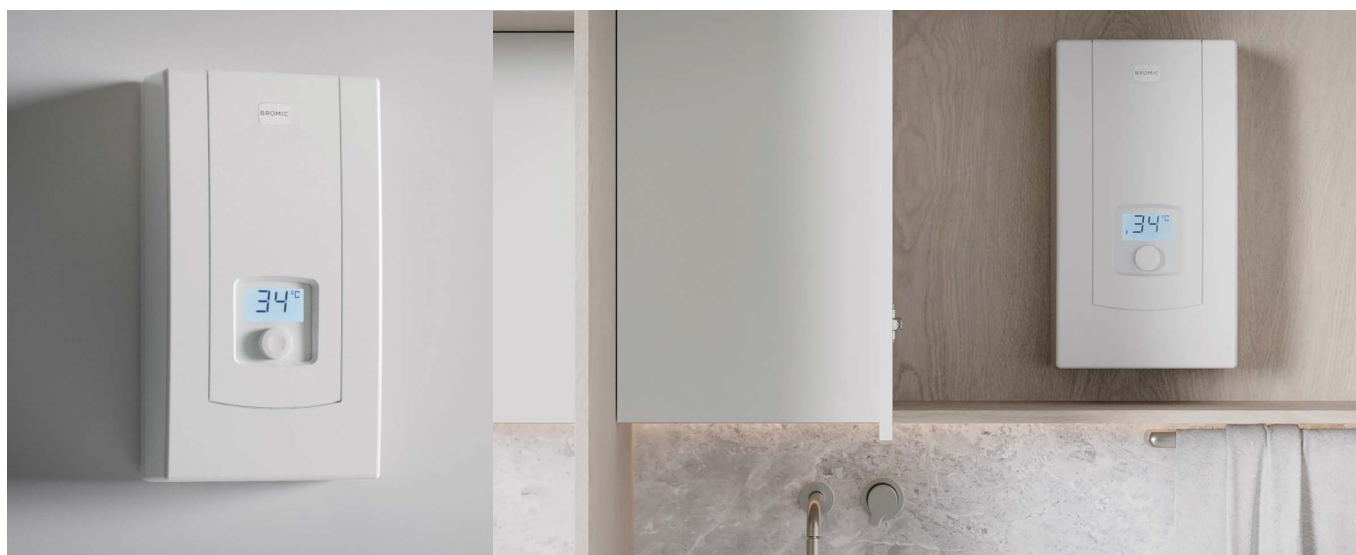


**Rethinking water for modern  
building design.**

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# Fala®



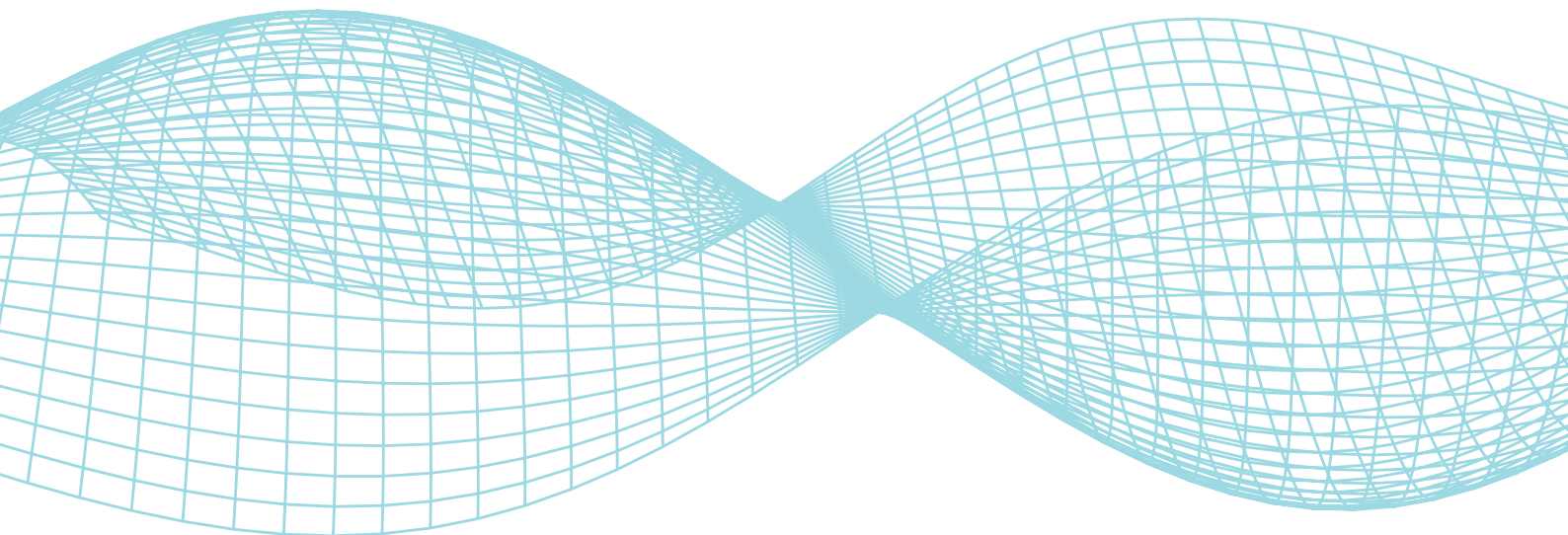
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# Most hot water systems are built around storage.



To deliver hot water instantly, systems store and circulate heated water across the building whether it's being used or not.

**That works, but it comes with some hidden downsides:**

- Energy lost through continuous recirculation
- Water wasted while waiting at the outlet
- Pipework and plant increase system complexity
- Infrastructure sized for peak assumptions, not real usage

**All inefficiencies that are often accepted as part of the system.**

## What if systems were designed around demand instead?

# Fala takes a different approach.



Instead of storing and distributing hot water, systems are designed to respond directly to demand – delivering water at the point of use, when required.

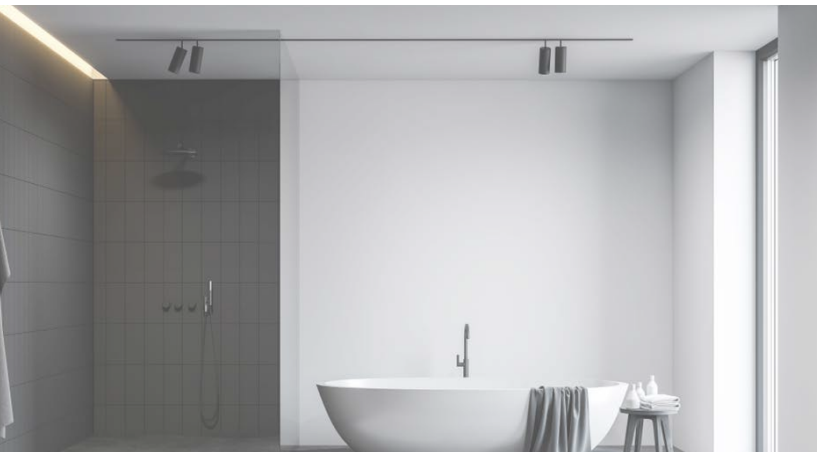
## **This changes how systems are designed.**

- No continuous circulation
- No distribution losses
- No oversized infrastructure based on peak assumptions

Just hot water, delivered when and where it's needed.

# Hot water demand isn't simultaneous.

## So why design a hot water system as though it is?



In most buildings, demand varies throughout the day – not all outlets are used at once.

However, centralised systems are commonly designed around peak assumptions, requiring storage volume and continuous circulation to maintain availability.

This leads to oversized infrastructure and ongoing system losses.

### **When systems are designed around demand, everything changes.**

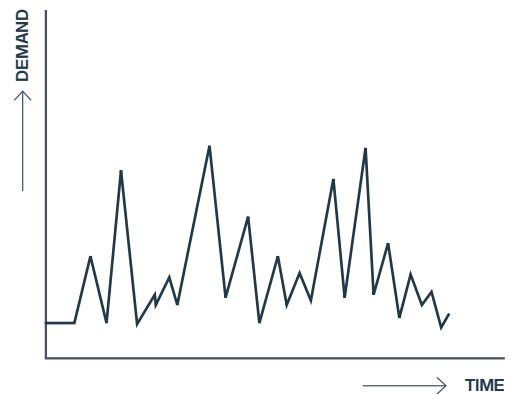
Hot water is delivered at point-of-use without relying on stored volume or continuous distribution.

This reduces the need for recirculation, minimises system losses, and aligns system performance more closely with how buildings use water.

**PEAK ASSUMPTION**



**ACTUAL DEMAND**



**Systems are often sized for peak demand that rarely occurs.**

# What changes when systems are designed around demand?

When hot water systems no longer rely on storage and continuous distribution, the impact goes beyond energy efficiency.

***It changes how systems are designed, delivered and operated.***

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## **No recirculation = reduced energy loss**

Hot water is generated only when required, removing the need for continuous circulation and the energy losses that come with it.

## **No distribution network = less waste**

Water is delivered at the point of use, eliminating the delays and wastage associated with long pipe runs.



## **No oversizing for peak assumptions = more efficient system design**

Designing around actual demand allows systems to be sized more accurately, avoiding unnecessary capacity and associated costs.

## **Simplified infrastructure = faster, more flexible installation**

With fewer components and reduced system complexity, installation becomes more straightforward and adaptable to different building types.

## **No central plant = more usable space**

Removing large storage tanks and extensive plant infrastructure reduces plant room requirements and frees up valuable space.

# Backed by real-world demand, not assumptions

Fala systems are designed using real usage patterns, not theoretical peak demand. Through project modelling and system-level analysis, we assess how hot water is actually used and what that means for system design.

## Demand is rarely simultaneous

Because hot water usage varies across time, outlets and occupants, systems designed around peak assumptions often overestimate actual demand.

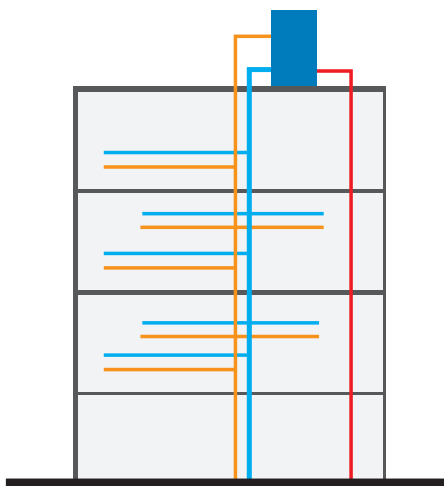
## System design changes when real data is applied

By modelling demand profiles and applying appropriate diversity assumptions, system requirements can be significantly reduced without compromising performance.

## Whole of system comparisons reveal hidden inefficiencies

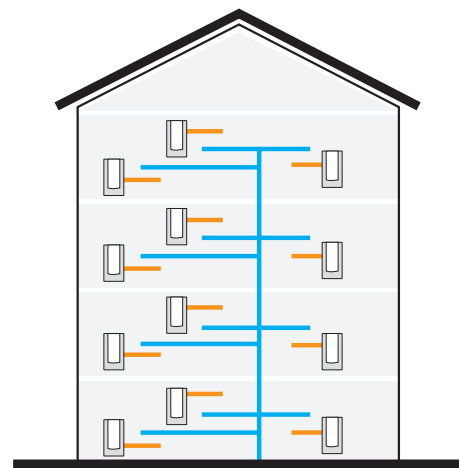
When centralised and decentralised approaches are compared at a system level, differences in energy use, water waste, and infrastructure become clear.

### Centralised



- + Storage + recirculation
- + High infrastructure
- + Energy loss across system

### Decentralised (Demand-based)



- + No continuous circulation
- + Reduced infrastructure
- + Energy used at point of demand

# Rethinking Water for modern building design

A flexible range of systems designed to support modern building requirements, from high-demand applications to simple, everyday use.



## Multi-residential

- Apartment Building
- Aged Care
- Residential Care



## Commercial

- Office
- Factory
- Education
- Health



# 3 Phase Electric Instantaneous Water Heater



## Application

Supplies instant hot water to multiple outlets, such as kitchens and bathrooms.

### Power Options

Available in 18kW and 27kW options.

### LCD Screen

Clearly displays the desired outlet temperature, along with inlet and outlet temperatures, power usage (% of max.), and water flow rate.

### Electronic Control

Provides stable, precise control of water temperature between 30–60°C, in 1°C increments.

### Temperature Lock

Allows the user to set and save the maximum temperature (child safety lock).

### Temperature Memory Function

Allows the user to save the 3 most frequently used water temperatures.

### No Flue Required

### Available in 50°C and 60°C (max. temperature) configurations.

### 5 years Residential Warranty

### 2 years Commercial Warranty

## Specifications

| Model  | HF-318                | HF-327                |
|--|-----------------------|-----------------------|
| 50°C Configured Product No.  | 2850318-S50           | 2850327-S50           |
| 60°C Configured Product No.  | 2850318               | 2850327               |
| Type   | Instantaneous         | Instantaneous         |
| Voltage, V   | 415V                  | 415V                  |
| Rated Power, kW  | 18                    | 27                    |
| Rated Current, A   | 25.1                  | 37.6                  |
| Hot Water Delivery, L/min<br>(at $\Delta T = 35^{\circ}\text{C}$ ) | 7.5                   | 11.3                  |
| Min. Activation Flow Rate, L/min                                   | 2.5                   | 2.5                   |
| Max Inlet Pressure Rating, kPa                                     | 1000                  | 1000                  |
| Temperature Range <sup>^</sup> , °C                                | 30° - 50/60°          | 30° - 50/60°          |
| Dimensions, mm   | 245W x 440H x 126D    | 245W x 440H x 126D    |
| Weight, kg   | 4                     | 4                     |
| IP Rating  | IP24                  | IP24                  |
| Water Connections  | G 1/2" Female         | G 1/2" Female         |
| Element Type   | Bare Element          | Bare Element          |
| Min Water Resistivity, $\Omega$ cm (at 15°C)                       | 1100                  | 1100                  |
| Pressure Range @ Main Water (MPa)                                  | 0.1 - 1               | 0.1 - 1               |
| WaterMark Approval   | WM 40268<br>(AS 3498) | WM 40268<br>(AS 3498) |

<sup>^</sup>Available in 50°C & 60°C (Max. Temperature) configurations.

# 6.3kW Single Phase Electric Instantaneous Water Heater



## Application

Provides reliable hot water at point of use for a single outlet, such as a basin or sink. Ideal where fixtures are located far from central plant, reducing wait time and water waste.

## Installation

Compact, space-saving design suitable for installation in tight areas.

## Tank Construction

Enamelled steel tank for durability and long service life.

## Electronic Control

Maintains consistent outlet water temperature under variable demand conditions.

## Temperature Performance

Delivers water not exceeding 45°C in accordance with AS 3498.

## Energy Efficiency

Heats water only as required, reducing unnecessary energy use.

## Automatic Adjustment

Automatically adjusts power based on flow rate to compensate for variations in inlet water temperature and pressure.

## Safety Features

Electronic protection system with temperature safety cut-off and intelligent flow control for safe, reliable operation.

## Ventilation Requirements

No flue, ventilation or safe tray required.

## 2-year Warranty

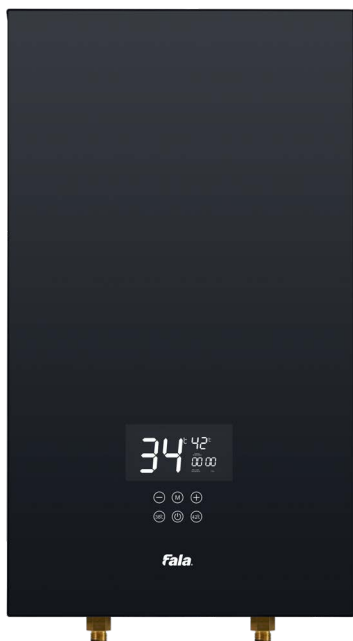
## Specifications

|  |                             |
|--|-----------------------------|
| <b>Part number</b>   | 2850117                     |
| <b>Type</b>  | Instantaneous               |
| <b>Voltage, V</b>  | 230                         |
| <b>Rated Power, kW</b>   | 6.3                         |
| <b>Rated Current, A</b>  | 28                          |
| <b>Hot Water Delivery, L/min (at <math>\Delta T=20^{\circ}\text{C}</math>)</b> | 4.4                         |
| <b>Min. Flow Rate, L/min</b>   | 2                           |
| <b>Max Inlet Pressure Rating, kPa</b>  | 750                         |
| <b>Min Inlet Pressure Rating, kPa</b>  | 100                         |
| <b>Temperature, <math>^{\circ}\text{C}</math></b>                              | 45° Maximum, non-adjustable |
| <b>Dimensions, mm</b>  | 270 W x 245 H x 60 D        |
| <b>Weight, kg</b>  | 2.5                         |
| <b>IP Rating</b>   | IPX4                        |
| <b>Water Connections</b>   | G1/2" Male                  |
| <b>WaterMark Approval</b>  | WM 40394<br>(AS 3498)       |

**Note:** Actual outlet temperature depends on the incoming mains water temperature and the flow rate.



# 8.5kW Single Phase Electric Instantaneous Water Heater



## Application

Provides reliable hot water at point of use for a single outlet, such as a basin or sink. Ideal where fixtures are located far from central plant, reducing wait time and water waste.

## Installation

Compact, space-saving design suitable for installation in tight areas.

## Electronic Control

Maintains consistent outlet water temperature under variable demand conditions.

## Temperature Performance

Delivers water not exceeding 50°C in accordance with AS 3498.

## Energy Efficiency

Heats water only as required, reducing unnecessary energy use.

## Automatic Adjustment

Automatically adjusts power based on flow rate to compensate for variations in inlet water temperature and pressure.

## Safety Features

Electronic protection system with temperature safety cut-off and intelligent flow control for safe, reliable operation.

## Ventilation Requirements

No flue, ventilation or safe tray required.

## 2-year Warranty

## Specifications

|  |                       |
|--|-----------------------|
| <b>Part number</b>   | 2850119               |
| <b>Type</b>  | Instantaneous         |
| <b>Voltage, V</b>  | 230                   |
| <b>Rated Power, kW</b>   | 8.5                   |
| <b>Rated Current, A</b>  | 37                    |
| <b>Hot Water Delivery, L/min (at <math>\Delta T=20^{\circ}\text{C}</math>)</b> | 5.5                   |
| <b>Min. Flow Rate, L/min</b>   | 2                     |
| <b>Max Inlet Pressure Rating, kPa</b>  | 750                   |
| <b>Min Inlet Pressure Rating, kPa</b>  | 100                   |
| <b>Temperature Range, <math>^{\circ}\text{C}</math></b>                        | 30 - 50 $^{\circ}$    |
| <b>Dimensions, mm</b>  | 280 W x 505 H x 60 D  |
| <b>Weight, kg</b>  | 5.4                   |
| <b>IP Rating</b>   | IPX4                  |
| <b>Water Connections</b>   | G1/2" Male            |
| <b>WaterMark Approval</b>  | WM 40394<br>(AS 3498) |

**Note:** Actual outlet temperature depends on the incoming mains water temperature and the flow rate.



# Mains Pressure Small Storage Electric Water Heater



## Application

Provides reliable hot water at point of use for one or multiple outlets, such as basins and sinks. Ideal where fixtures are located far from central plant, reducing wait time and water waste.

## Capacity Options

Available in 10L and 15L capacities.

## Installation

Designed for point of use installation, eliminating the need for larger remote systems. Compact size allows for under-bench installation in tight spaces.

## Tank Construction

Enamelled steel tank for durability and long service life.

## Power Supply

Operates on 230V and plugs into a standard power point.

## Temperature Setting

Pre-set to 75°C.

## Outlet Supply

Can service multiple outlets.

## Tap Compatibility

Suitable for use with standard taps.

## Safety & Compliance

Includes PTR valve.

Installation requires a safe tray and drain in accordance with AS/NZS 3500.4.2 and local regulations.

## Specifications

| Item  | 10L Pressure                          | 15L Pressure                          |
|---|---------------------------------------|---------------------------------------|
| Part No.  | 2850004                               | 2850005                               |
| Type  | Pressure Storage                      | Pressure Storage                      |
| Capacity, L   | 10                                    | 15                                    |
| Voltage, Vac  | 220 – 240, 1-phase                    | 220 – 240, 1-phase                    |
| Rated Power, W  | 2000                                  | 2000                                  |
| Rated Current, A  | 8.1 – 9.2                             | 8.1 – 9.2                             |
| Temperature Setting, °C                                 | 75°                                   | 75°                                   |
| Heating Time, mins. ( $\Delta T = 30^{\circ}\text{C}$ ) | 10.6                                  | 14.9                                  |
| Maximum Permissible Pressure, kPa                       | 850                                   | 850                                   |
| Minimum Inlet Water Pressure, kPa                       | 110                                   | 110                                   |
| Maximum Water Inlet Pressure, kPa                       | 550                                   | 550                                   |
| Dimensions, mm  | 360W x 350H x 300D                    | 360W x 350H x 320D                    |
| Weight, kg  | 7.4                                   | 8.4                                   |
| IP Rating   | IPX4                                  | IPX4                                  |
| Water Connections                                       | Cold = G1/2" Male<br>Hot = G1/2" Male | Cold = G1/2" Male<br>Hot = G1/2" Male |
| WaterMark Approval                                      | WM 40394<br>(AS 3498)                 | WM 40394<br>(AS 3498)                 |



# Open Vented Small Storage Electric Water Heater



## Application

Provides reliable hot water at point of use for a single outlet, such as a basin or sink. Ideal where fixtures are located far from central plant, reducing wait time and water waste.

## Capacity Options

Available in 6L and 10L capacities.

## Installation

Designed for point of use installation, eliminating the need for larger remote systems. Compact size allows for under-bench installation in tight spaces.

## Tank Construction

Enamelled steel tank for durability and long service life.

## Power Supply

Operates on 230V and plugs into a standard power point.

## Temperature Setting

Pre-set to 75°C.

## Outlet Supply

Designed to supply a single isolated outlet.

## Tap Compatibility

Must be used with a vented tap.

## Specifications

| Item  | 6L Vented                             | 10L Vented                            |
|---|---------------------------------------|---------------------------------------|
| Part No.  | 2850006                               | 2850007                               |
| Type  | Vented Storage                        | Vented Storage                        |
| Capacity, L   | 6                                     | 10                                    |
| Voltage, Vac  | 220 – 240, 1-phase                    | 220 – 240, 1-phase                    |
| Rated Power, W  | 2000                                  | 2000                                  |
| Rated Current, A  | 8.1 – 9.2                             | 8.1 – 9.2                             |
| Temperature Setting, °C                                 | 75°                                   | 75°                                   |
| Heating Time, mins. ( $\Delta T = 30^{\circ}\text{C}$ ) | 6.6                                   | 10.6                                  |
| Maximum Permissible Pressure, kPa                       | 850                                   | 850                                   |
| Minimum Inlet Water Pressure, kPa                       | 110                                   | 110                                   |
| Maximum Water Inlet Pressure, kPa                       | 550                                   | 550                                   |
| Dimensions, mm  | 290W x 290H x 290D                    | 360W x 350D x 300H                    |
| Weight, kg  | 6.2                                   | 7.4                                   |
| IP Rating   | IPX4                                  | IPX4                                  |
| Water Connections                                       | Cold = G1/2" Male<br>Hot = G1/2" Male | Cold = G1/2" Male<br>Hot = G1/2" Male |
| WaterMark Approval                                      | WM 40394<br>(AS 3498)                 | WM 40394<br>(AS 3498)                 |



# Instant Boiling Water Dispensers



## Application

Provides instant access to boiling water for high-demand environments such as kitchens, offices and commercial spaces.

### Temperature Performance

Maintains a consistent boiling water temperature, optimised based on usage to prevent fluctuations.

### Heating Technology

Step-by-step heating system heats water progressively based on demand, improving efficiency and reducing energy waste.

### Capacity Options

Available in a range of capacities to suit varying usage requirements.

### Installation

Wall-mounted design saves bench space and supports a clean, modern fit-out.

### Tank Construction

Copper tank for efficient heat transfer, improved durability, and corrosion resistance. Antimicrobial properties support water hygiene.

### Water Heating Method

Direct bottom inlet heating element heats incoming water efficiently, reducing the need for reheating stored water.

### Safety Features

Dual over-temperature protection for safe operation.

## Specifications

| Model  | 2.5L   | 5L                    | 7.5L                  |
|--|--|-----------------------|-----------------------|
| Product No.                                  | 2850205  | 2850215               | 2850225               |
| Application                                  | For the supply of instant boiling water to commercial kitchens, office break rooms, staff kitchens, canteens and hospitality environments. |                       |                       |
| Warranty                                     | 2 Years  | 2 Years               | 2 Years               |
| WaterMark                                    | WM-040339  | WM-040339             | WM-040339             |
| Storage capacity, L                          | 2.5  | 5                     | 7.5                   |
| Max. Water Supply Pressure, kPa              | 800  | 800                   | 800                   |
| Min. Water Supply Pressure, kPa              | 50   | 50                    | 50                    |
| Cold Water Connection, BSP                   | 1/2"   | 1/2"                  | 1/2"                  |
| Overflow Vent Connection, BSP                | 1/2"   | 1/2"                  | 1/2"                  |
| Supply Voltage, V                            | 220 – 240 AC 50 Hz   | 220 – 240 AC 50 Hz    | 220 – 240 AC 50 Hz    |
| Electrical Connection                        | 10A 3pin plug  | 10A 3pin plug         | 10A 3pin plug         |
| Heating Element, kW                          | 1.8  | 2.0                   | 2.0                   |
| Approx. Weight Empty, kg                     | 6.6  | 8.5                   | 8.7                   |
| Approx. Weight Full, kg                      | 10.7   | 16.3                  | 18.3                  |
| Approx. Time to Heat, to full capacity, mins | 12   | 15                    | 22                    |
| Width, mm                                    | 275  | 320                   | 320                   |
| Height, mm                                   | 365  | 448                   | 448                   |
| Depth (to lever), mm                         | 263  | 293                   | 293                   |
| WaterMark Approval                           | WM 40339<br>(AS 3498)  | WM 40339<br>(AS 3498) | WM 40339<br>(AS 3498) |

# How Fala supports you.



## Designed to work in real projects

- + Fala is not just a different system approach; it's supported by the tools and expertise needed to apply it in practice.

## Demand modelling and system sizing

- + We assess real usage patterns to help determine appropriate system design, avoiding over or under sizing.

## Feasibility and system comparisons

- + We support early-stage evaluation, comparing centralised and demand-based approaches to inform design decisions.

## Project-ready documentation

- + From design input to specification support, Fala provides the materials needed to move from concept to implementation.

## Ongoing technical support

- + Our team works alongside consultants, engineers and project teams to ensure systems are designed and delivered effectively.

Every project is different. We model demand and compare system approaches based on real usage.

## Contact us to review your project.

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***Rethink Water.***

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