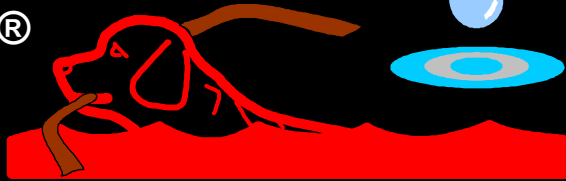


Save Water!!

FIDO®

Recover the
initial cold water
from the hot tap!



Hot Fetch™

KMED

Water Solutions

Hot Water Recovery System

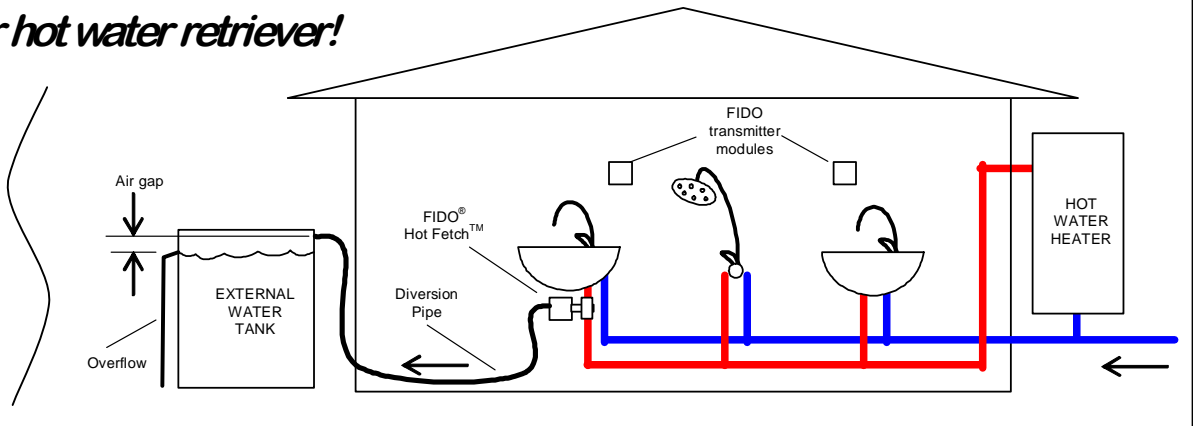
Application

FIDO® can be connected at the hot pipe leading to vanity basins, showers, or sinks, accelerating the delivery of hot water to the faucets while preventing wastage. Purged water is directed via a dedicated pipe to water tank for secondary use.

Product Description

A simple valve system designed to purge any cold water from the hot water pipe. The valve is activated on demand by remote push button, and intelligently shuts off when hot water arrives.

FIDO®, your hot water retriever!



FEATURES & BENEFITS

- FIDO® accelerates the delivery of hot water to your tap(s) by purging the line, ie diverting the initial cold water to external water tank, or application of choice.
- Water savings averaging 5500litres per year per 2 person household.
- Activated on demand by pressing one of two remote wireless transmitter buttons, (each supplied with super long life batteries).
- Attractive transmitter button module(s) can be mounted on a wall or sill by screw or double sided adhesive – no expensive or unsightly installation wiring.
- Only purges water if demanded. *Sometimes you actually want to use the initial cold water!*
- User is free to do something else while waiting for the water line to purge. *User need not open tap to purge line.*
- Audible & visual indication of purge status
- One FIDO® unit can service multiple taps on a common branch.
- Unique (patent pending), simple reliable sensing and control technology requires no pumping.
- Environmentally friendly;
 - Saves water
 - Saves energy (no pumping)
- Convenient
 - Speeds up hot water delivery
 - Allows user to do other things while hot water is retrieved.
 - Can install the transmitter button(s) anywhere within the building.
- Safe & User friendly –
 - Does not require the hot tap to be opened in order to retrieve the hot water – Eliminates risk of scalding¹.
 - Does not re-circulate water in the potable water supply, eliminating risk of Legionella².
 - Limits the total purge time, and the number of purges per hour.
 - Safeguard circuitry in control module prevents valve activation in case of single component failure.
- Simple and easy to install
- No adjustments.
- Cost effective
- Made in Australia

OPERATING LIMITS

Max. pressure (mains)	1200kPa
Min. pressure (mains)	20kPa
Max. (water purge rate)	40lpm @400kPa
Min. (water purge rate)	10lpm @100kPa
Max. water Temperature	80degC
Min. water Temperature	2degC
Max. Ambient Temperature	40degC
Min. Ambient Temperature	2degC
Relative humidity	0% to 90%
Supply Voltage	100-240Vac
Supply Amps (Idle)	< 0.03Amp
Supply Amps (Operating)	< 0.1Amp
Supply power (Idle)	< 6watt
Transmitter Button module	
- Battery ³ Type	23A/12Vdc
- Battery Expected Life	>1Year
Hot water inlet size	½" BSP(M)
Purge water outlet size	½" BSP(F)

³Supplied

¹Competing products require the hot tap to be opened in order to trigger the purge process.

²Installation requires provision for backflow prevention.



TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

PART

MATERIAL

FIDO Control module

Enclosure

- A.B.S. plastic (or similar)
- Fiberglass printed circuit board

Temperature sensor

- Body Nylon (cable tie)
- Element Plastic Semiconductor type
- Element bonding Silicon Rubber

FIDO Solenoid valve

Solenoid Valve

- Body Nylon 66 30% Glass filled
- Diaphragm Natural Nitrile elastomers
- Plunger Magnetic Stainless Steel
- Plunger Tip Natural Nitrile elastomers
- Spring Stainless Steel 302

FIDO Power adaptor

240vac - 12Vdc Power adaptor

- Body Plastic
- Contacts NI Plated Brass

ELECTRICAL DATA

Power adaptor (supplied)

Supply voltage	100 – 240Vac
Supply frequency	50/60Hz
Output voltage	12Vdc +/-5%
Output current	1Amp
Approvals	Safety N5071, EMC N692
Electrical Safety Certificate	N20945

Control module

Input voltage	12Vdc +/- 10%
Current (Idle)	~10mA
Current (Active)	~600mA
Output current (Max)	1Amp

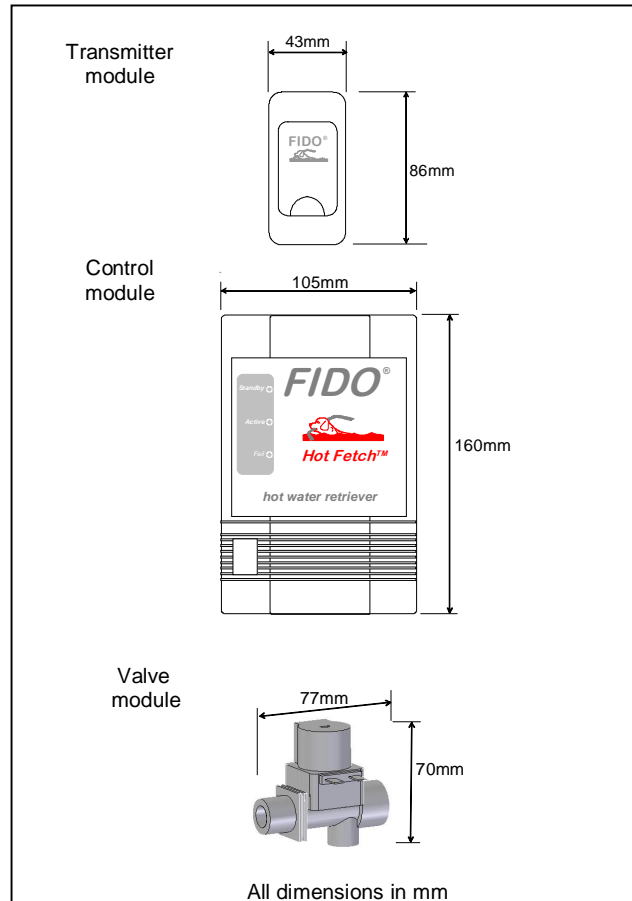
Valve module

Input voltage	12Vdc +/- 10%
Current	~600mA

Transmitter button

Battery (Supplied)	12V (type 23A)
Expected Battery Life	12months

DIMENSIONS



APPROVALS

Complies with electrical standards:

Power pack –

Electrical Safety - N5071

Certificate of electrical Safety:- N20945

EMC compliance - N692

Complies with plumbing standards:

Solenoid Valve –

Watermark Standard - ATS 5200.030-2004

LN:W 4004

Requires installation by a licensed plumber.

This data must be read in conjunction with the relevant installation and operating instructions and all applicable statutory requirements. Product specifications may change without notice. Patents applicable to FIDO® Hot Fetch™ and various advancements have been applied for and are currently in pending status. KMED is short for KM Electronic Developments Pty Ltd. FIDO® is a registered trademark of KM Electronic Developments Pty Ltd.

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KMED

Water Solutions

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