ACT D'MAND System

Benefits and Advantages

- **Water and Energy saving. (Re WELS Report on Instantaneous Water Heaters.)**
- **5 year Warranty.**
- **20 year life expectancy.**
- **2 ways of installation, (1) Retro Fit to existing Plumbing using the cold water pipe as a return (2) Installed using a separate return pipe in New Home construction.**
- **Works with all types of pressurized Hot Water Heaters.**
- **Is Australian Water Marked.**
- **Has Australian and International Electrical Certification.**
- **Works on the Demand of the home owner.**
- **Can be operated by hardwired Button, motion sensor or wireless remote control, all activation controls low voltage.**
- **Has won environmental awards in Australia, HIA Greensmart & Green Plumbers Water and Energy efficiency Awards in 2006.**
- **Made in the USA, solid construction.**
- **Quiet operation.**
- **Automatic switch off temperature controlled by a "Delta T" rise in water temperature.**
- **ACT D'MAND System only operates when the user requires Hot Water on demand, therefore saving both water and energy and adding convenience to the user.**
- **Proven to extend the life expectancy of Storage Hot Water Heater by 15%.**
- **The only Hot Water Circulator device to be recognized by Rinnai to be compatible with their Instantaneous Hot Water Heater (IHWH) and allowing the IHWH to retain full factory Warranty.**

ACT D'MAND System

Operation principals

- **The ACT D'MAND System is an on demand operated hot water circulation system designed to save both water and energy.**
- **Activation of the system is either by hardwired button, wireless remote control or motion sensor.**
- **To get hot water press Button or walk past motion sensor but do not turn on Tap, wait until pump stops running.**
- **On start-up the ACT D'MAND System measures the ambient temperature in the hot water pipe and Pump rapidly circulates the cooled off water in the Hot Water pipe back to the Hot Water Heater.**
- **Once the "Delta T" temperature rise of the water in the hot water pipe is measured the Electronic Controller will shut the system down and Hot water will be available with in a second after turning on the Tap.**

Savings

- **Save the Water that normally runs down the drain.**
- **Rapid movement of cooled water in the hot water pipe back to the hot water heater has been proven to save around 20% of the energy required for production of Hot Water.**

Advantages

- **Reduction in Town or Tank water supply through saving the cooled water in the hot water pipe.**
- **Reduction in waste to the Sewer as the cooled water is retained in the houses potable water piping.**

When don't you need hot water?

- **When you already have hot water in the pipes.**
- **When nobody is home.**

TABLE OF SAVINGS OF WATER AND ENERGY.

HOT WATER ON DEMAND.

ONE PERSON PER YEAR	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY
	Liters cold water	Liters hot water	Total cold+hot water	Diferencial 8ºC	Diferencial 40ºC	Total Energía Kw of heat
	10 Liters	3 Liters	Total Liters water	Kw heat	Kw heat	
3 DEMANDS	30	9	39	0,2791	0,4186	0,6977
6 DEMANDS	60	18	78	0,5581	0,8372	1,3953
9 DEMANDS	90	27	117	0,8372	1,2558	2,0930
12 DEMANDS	120	36	156	1,1163	1,6744	2,7907
ONE PERSON PER YEAR	ONE YEAR	ONE YEAR	ONE YEAR	ONE YEAR	ONE YEAR	ONE YEAR
	Liters cold water	Liters hot water	Total cold+hot water	Diferencial 8ºC	Diferencial 40ºC	Total Energía Kw of heat
EVERY TIME YOU DEMAND HOT WATER	10 Liters	3 Liters	Total Liters water	Kw heat	Kw heat	
3 DEMANDS	**10950**	**3285**	**14235**	**101,8605**	**152,7907**	**254,6512**
6 DEMANDS	**21900**	**6570**	**28470**	**203,7209**	**305,5814**	**509,3023**
9 DEMANDS	32850	9855	42705	305,5814	458,3721	763,9535
12 DEMANDS	43800	13140	56940	407,4419	611,1628	1018,6047

SAVINGS YOU CAN GET WITH THIS DEVICE INSTALLED IN YOUR HOME.
HOW MANY TIMES DO YOU DEMAND HOT WATER IN YOUR HOME ?
ON THE WHOLE YOU CAN SAVE ABOUT 100€ PER YEAR.