

TECHNICAL BULLETIN

Drop-In Dual Flush Converter proven to save 30% on newer 1.6 gpf (6 lpf) toilets

The Case for Dual Flush Technology

Widely accepted in Europe, Australia and Canada, Dual Flush technology has only recently been introduced in the United States. Arriving first as dual flush toilets, more recent plumbing innovation has produced dual flush converters that retrofit existing toilets into dual flush systems.

Central to dual flush technology is the water-savings that can be realized by a Quick Flush setting using lower water volumes for liquids and paper. A second, Full Flush setting uses the standard amount of water for solids. Industry experts agree that 4 out of 5 flushes require only the amount of water used in the Quick Flush setting - **meaning 80% of flushes waste money and water[™]** on all toilets that are not dual flush.

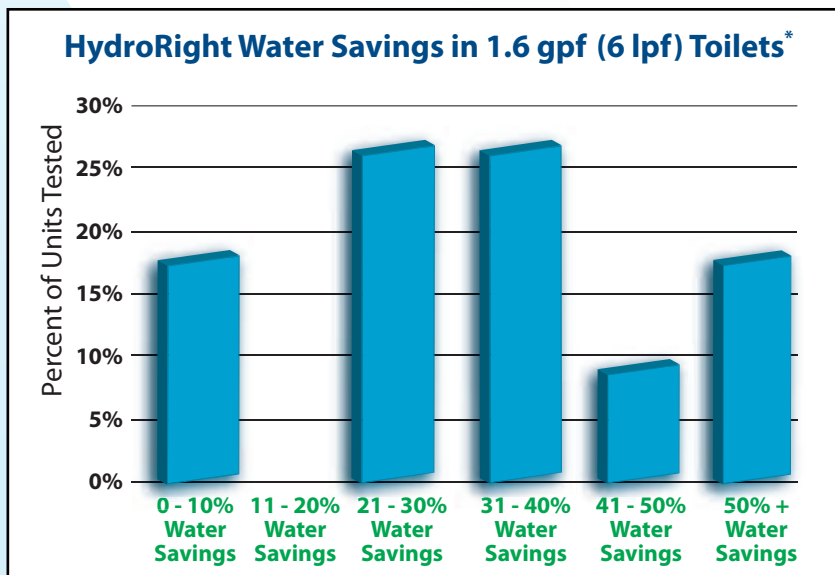
Testing the *HydroRight[™]* Dual Flush Converter

In the Fall of 2009, Veritec Consulting, Inc. conducted a pilot project for Equity Residential, Moen and MJSI that was intended to reduce water demands in an apartment complex by retrofitting existing plumbing fixtures with water-saving plumbing products.

Study Results:

Water savings percentages reflect overall indoor water use.

- 82% of the units showed more than a 20% water savings
- HydroRight showed an average water savings of 30%
- Some apartments had water savings of over 50%



Water savings reflect overall indoor water use

HydroRight Drop-In Dual Flush Converter



The ONLY Drop-In Dual Flush Converter with proven water savings

"The HydroRight dual flush converter reduced demands by almost 30% in this study - which is significant - and might be expected to save even more water if retrofitting toilets that flush with 3.5 gallons or more."

– Bill Gauley, Principal and Co-Founder, Veritec Consulting, Inc.

"Compared to toilet replacements, the HydroRight has surprisingly strong results and is substantially less expensive, which means we can help our residents save more water with less cost."

– Lou Schotsky, Equity Residential

About Veritec Consulting, Inc.

Veritec Consulting, Inc. is considered by governments and utilities to be the leading innovator of water and wastewater optimization strategies and programs. Bill Gauley, Principal and Co-Founder of Veritec, is a recognized leader in water efficiency throughout North America. He is the developer of the de facto toilet performance testing standard (MaP Testing) that forms the basis of the USEPA's WasterSense program requirements for toilet performance.

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Toilet Fill Valve proven to save 36% in older 3.5 gpf (13 lpf)

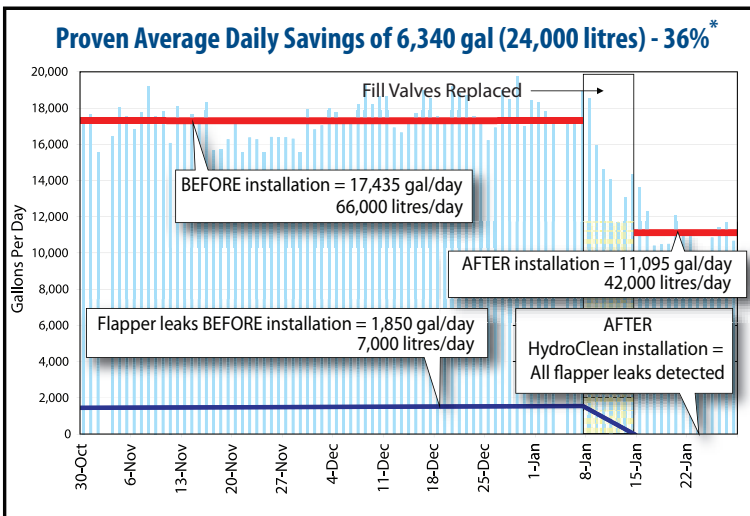
The Case for the **HydroClean[®]** Toilet Fill Valve

The HydroClean Toilet Fill Valve has been tested in two studies conducted by Veritec Consulting, Inc. This toilet fill valve is the only fill valve that solves the two biggest reasons for water loss in toilets – miscalibration and leaks. The HydroClean can be calibrated to eliminate overfilling the toilet bowl during the tank filling process and is also designed to detect leaks by emitting a sound when a leak is detected.



HydroClean Toilet Fill Valve

The **ONLY** Toilet Fill Valve with independently proven water savings



"We chose the HydroClean over a toilet replacement program because it looked easier and less expensive. We are now saving about 190,200 gallons of water for an estimated savings of \$1,250 per month in water and sewer costs. Just phenomenal!"

– Property owner, Georgetown, Ontario

"The results achieved by this field study... clearly indicate that significant water savings can be achieved by retrofitting existing plumbing fixtures."

– Bill Gauley, Principal and Co-Founder, Veritec Consulting, Inc.

Georgetown, Ontario, Canada

Significant savings were found in a study conducted at a 159-unit condominium complex in Canada. In that study, installation of the HydroClean into existing 3.5 gpf (13 lpf) toilets resulted in a 36% daily savings in water usage for a savings of 6,340 gallons (24,000 litres) of water per day.

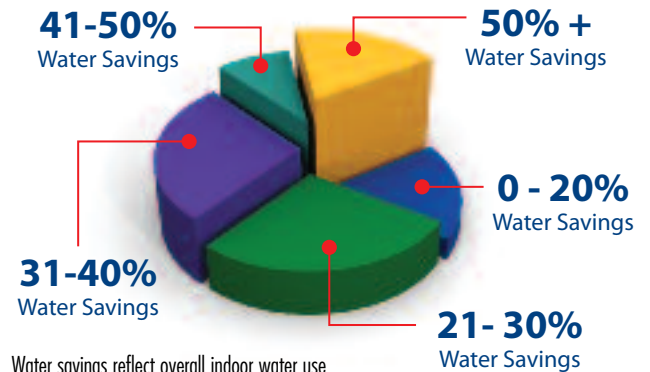
Braintree, Massachusetts

In individually metered apartment units, installation of the HydroClean in existing 1.6 gpf (6 lpf) low-flow toilets showed a total daily water savings of 21%.

When HydroClean and HydroRight were installed together, over 1/2 of the apartments retrofitted had a water savings of over 30%.

HydroRight/HydroClean Water Savings Summary*

Installed in 1.6 gpf (6 lpf) high efficiency, low flow toilets



*Monitoring and data analysis completed by Veritec Consulting Inc.