

University : University of Malaya  
 Country : Malaysia  
 Web Address : <http://um.edu.my>  
 Owner : UM Living Lab (Water Warriors)  
 : <https://umwaterwarriors.wixsite.com/>

## CORE AREA: WATER MANAGEMENT

### The Use of Water Efficient Appliances (Water tap, toilet flush, etc.)

No.	Appliances	Explanation	Evidences
1	<b>Dual-flush toilet system</b>	<p>These toilets are equipped with set of buttons that allows users to choose between two water settings. A larger flush, usually about 6L, is designed for solid waste and a smaller flush, usually about 3L, is designed for liquid waste.</p>	<p>Research Management &amp; Innovation Complex</p>  <p>Dayasari Residential College</p> 

Raja Dr. Nazrin Shah Residential College



Faculty of Engineering (Civil Department)



PAUM Clubhouse



Ungku Aziz Residential College



			<p>Za'ba Library</p> 	<p>Faculty of Engineering (Engineering Tower)</p> 
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<p>2</p>	<p><b>Retrofitting ablution taps</b></p>	<p>Installation of water restrictors called “Thimble” for every Mussolah /Mosque in campus. The water restrictor managed to save ~50% of water during ablution. Increase water efficient.</p> <p>Video: <a href="https://tinyurl.com/mrthimble">https://tinyurl.com/mrthimble</a></p>	<p>Awareness signage</p> 	<p>“Thimble”; water restrictor</p> 
		<p>Mussolah Academy Islamic Studies</p> 	<p>Mussolah Botanical Garden</p> 	

			<p>Mussolah Cultural Centre</p> 	<p>Mussolah Ungku Aziz Residential College</p> 
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<p>3</p>	<p><b>Low Flow Shower heads</b></p>	<p>Installation of shower heads for every shower in campus. Reduce water usage and low flow during shower.</p>	<p>Raja Dr. Nazrin Shah Residential College</p> 	<p>Department of Development and Estate Maintenance</p> 
			<p>Tuanku Bahiyah Residential College</p> 	<p>Botanical Garden</p> 
			<p>PAUM Clubhouse</p> 	<p>Dayasari Residential College</p> 

4	<b>Push taps</b>	<p>Push taps are a reliable non-concussive cartridge that reduces water consumption. Conventional taps can be left running for much longer than necessary, wasting water. The push down taps can considerably reduce water &amp; waste, with the time delay mechanism that automatically shuts off which helps to avoid wastage.</p>	 <p style="text-align: center;">Chancellory</p>	
5	<b>Washing machine – water efficient</b>	<p>These washers reduce the amount of water and electricity used in a single load of laundry</p>	 <p style="text-align: center;">Tuanku Bahiyah Residential College</p>	 <p style="text-align: center;">Ungku Aziz Residential College</p>

6	<b>Other water efficient products</b>	<p>University Malaya is moving towards more water efficient products. For upcoming new building and renovation, all toilet fittings (water closet system, tap, urinal equipment, showerhead) and appliances (washing machines, etc.) must be comply with Water Efficient Products set by the Malaysian Government.</p> <p>Link:  <a href="https://www.span.gov.my/category/view/4">https://www.span.gov.my/category/view/4</a></p>	 <p><b>CEKAP AIR</b> Water Efficient</p> <p>★ ★ ★</p> <p><b>SPAN</b> www.span.gov.my</p> <table border="1"> <tr> <td>★ Cekap (Efficient)</td> <td>★★★ Sangat Cekap (Highly Efficient)</td> <td>★★★★ Paling Cekap (Most Efficient)</td> </tr> </table> <p><small>Penggunaan sebenar air mungkin berbeza dari keputusan ujian makmal Actual water consumption may vary from test results</small></p>	★ Cekap (Efficient)	★★★ Sangat Cekap (Highly Efficient)	★★★★ Paling Cekap (Most Efficient)
★ Cekap (Efficient)	★★★ Sangat Cekap (Highly Efficient)	★★★★ Paling Cekap (Most Efficient)				

**Data Provider:**

UM Living Lab (Water Warriors)  
 Department of Development & Estate Maintenance (JPPHB) UM

**Data Verification:**

Deputy Vice-Chancellor (Development) UM