



## Summary of Aquatek Irrigation Pty. Ltd Rain Bird 5000 PRS Study

Aquatek Irrigation Pty. Ltd was commissioned by Rain Bird to independently evaluate the performance and water saving features of the Rain Bird 5000 PRS Rotor.

The purpose of the evaluation was to test the Bird 5000 PRS performance along with comparable market brands. The other brands chosen were the Hunter PGP and the Toro V1550. All rotors were tested with a range of comparable nozzles selected to represent quarter, half and full circle rotors in a matched precipitation system.

The evaluation created a typical field scenario and applied two conditions:

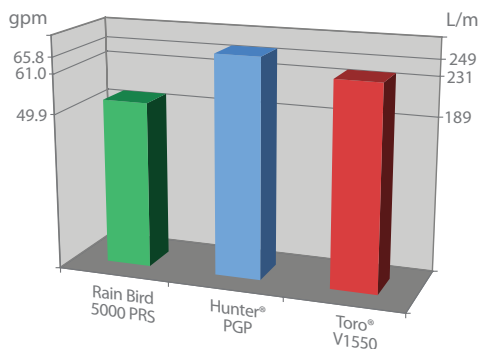
1. A high operating pressure scenario which often occurs when users do not set sprinkler pressures (i.e. the system operates at maximum pressure capacity) or there are fluctuating mainline pressures.

**Result: The Hunter PGP and Toro V1550 used 15% to 45% more water than the Rain Bird 5000 PRS.**

2. A wide operating pressure range across rotors operating at the same time. This occurs when there is excessive pressure loss; commonly caused by using too small a pipe diameter. The pressure variation results in uneven application rates, the users will adjust the watering to the driest area to compensate resulting in over watering.

**Result: A negligible effect for the Rain Bird 5000 PRS (3%) and between a 28% and 38% excess watering required for the Hunter PGP and Toro V1550.**

Total Flow



Precipitation Rates

