



## Platypus Jar Tester

Operations and designer tools to assess the physical and chemical treatment of surface and ground waters.



### Test Scope:

- coagulants, polymers, alkalinity treatment
- metals oxidation
- settlement rates
- pre-treatment for flotation tests
- reaction kinetics
- mixing and flocculation energy evaluation
- metal residuals

### World Class Product

- superior technology, materials, safety, functionality and presentation
- relevant European, US and Australian Standards and Marks
- advanced LED backlighting

### Independent Mixing Stations

- programmable speed and time settings for each of three flocculation stages - at each station

### Advanced Backlighting

- LED backlighting ensure Jar contents under test are not heat impacted
- ice white light contrasts solids in suspension

### Digitally controlled, easy to operate

- LED speed, time, alarm and status displays
- three programmable flocculation stages
- independently programmable duration and speed for each flocculation stage
- paddle speed is not inferred. Paddle speed settings are Hall Effect speed controlled to set point - notwithstanding commonly experienced water temperature variations/ viscosity and paddle type and size
- tactile membrane decals



### Square Jars

- durable, clear polycarbonate materials
- injection moulded; easy to clean fillets at the Jar floor, walls and corners
- anti-slip top lips for wet environments
- geometric emulation of plant mixing and flocculation shear gradients
- 1L or 2L Jars with or without supernatant sample taps

1L Jar without sample tap

2L Jar without sample tap

2L Jar with sample tap

### Velocity Gradient Tables:

- Velocity gradient translation Tables provide bench test correlation of Jar mixing energy under variable water temperature, paddle type and size to determine optimum plant velocity gradient requirements
- Better bench test emulation of plant flocculation conditions - facilitates accurate determination of optimum plant flocculation energy input needs

### Safe Operation In Wet Environments:

- low voltage internal power
- splash proof membrane decals

### Quiet

- low noise power transmission belts



#### Platypus Jar Tester Carry Case

- Internal foam cradle protection
- Internally recessed retractable handle
- Twin core fluted PP walls
- Heavy duty wheels

#### Clip-On Polycarbonate Paddles

- small, large, butterfly radial and axial flow paddles
- easy to clean
- emulate plant flocculation type
- select paddle to suit velocity gradients



**Axial Paddle**



**Butterfly Paddle**

#### 15VDC External Power Supply:

- AS/NZS CISPR 11 (C tick)
- UL 1950 (safety)
- EN 60950 (safety)
- EN 55022 Class B (EMC)
- EN 61000 series (EMC), CE – relevant as below

#### EMC Compliance:

- FCC Part 15 Class A
- AS/NZS CISPR 11 (C tick)
- EN 61326:2002 (emissions and immunity)
- EN 61000-4-2 (ESD)
- EN 61000-4-3 (Radiated field)
- EN 61000-4-4 (EFT/Burst)
- EN 61000-4-5 (Surge)
- EN 61000-4-6 (Conducted RF)
- EN 61000-4-8 (Magnetic field)
- EN 61000-4-11 (Voltage dips)
- EN 61000-3-2 (Harmonics)
- EN 61000-3-3 (Flicker)
- CE

#### Part Numbers:

- 4GJT - 4G Platypus Jar Tester without jars
- 4GJT1L - 4G Platypus Jar Tester with 1L jars
- 4GJT2L - 4G Platypus Jar Tester with 2L jars
- 4GJT2LT - 4G Platypus Jar Tester with 2L jars & taps
- 4GJ1 - 1L jar without sample tap
- 4GJ2 - 2L jar without sample tap
- 4GJ2T - 2L jar with sample tap
- 4GDC - Vinyl dust cover, water resistant
- 4GCC - Platypus Jar Tester Carry Case