

# Platypus Jar Tester



*Test up to  
four samples  
simultaneously!*



*Digital programmable settings for each three  
flocculation stages at each of the four stations*

The Platypus Jar tester allows to emulate full scale plant flocculation to confidently optimize physical and chemical treatment including: coagulants, polymers and alkalinity, settlement rates, reaction kinetics, mixing and flocculation energy requirements, aluminium ion residuals.



## MICROPROCESSORS

Four independent stations with separate / sequential speed / time settings for three (3) mix / flocculation stages. Last RPM and TIME memory. Actual paddle speed controlled by P+I controllers tied-back to Hall Effect speed sensors.



## DIGITAL CONTROL

Each station includes a 14mm 3 digit numeric LED display for RPM set / actual speed readout and a 14 mm 4-digit clock LED display for stage time set/time elapsed.

## TACTILE CONTROL PANEL

Keypad control at each Jar Station allows to set mix / flocculation speed, duration and control mode for each stage. Status, mode selection and error LED indicators.



## SQUARE JARS

- 1L<sup>2</sup> or 2L<sup>2</sup> capacity options. Square Jar geometry for emulation of plant conditions.
- Durable, clear polycarbonate material - easy to clean wall and floor corners fillets.
- Anti-slip top lips for safe handling on wet environments.

## CERTIFICATIONS

FCC Title 47, Part 15 Class B  
AS/NZS CISPR 11 (C-tick)  
EN 61326:2002 (emissions+immunity)  
EN 61000 series (as applicable)  
CE, UL (as applicable)



## LIGHTING

Ice white backlighting to monitor floc development, settling rates and supernatant clarity.

## UNIQUE PADDLES

Clip-On/Off, easy-to-clean radial and axial flow types offer a wide range of mix/ flocculation velocity gradients.

## QUIET AND SAFE

The unit is safe to run in wet environments due to its low voltage internal power and also quiet due to the low noise power transmission belts.

# Dissolved Air Flotation (DAF) System Accessories



2L capacity DAF Saturator, distribution Manifold, 4 x 2L DAF Jars and hoseware.

*Platypus Dissolved Air Flotation Test Accessories provide pilot-scale hardware to assess and identify best practice DAF treatment*

Dissolved Air Flotation Test Accessories are used in conjunction with the standard Jar testing - to assess and determine appropriate DAF process parameters including air saturation pressure, recycle rates, DAF treatability, float cohesion, appropriate polymers and appropriate flotation surface loading rates.



## THE PROCESS

Dissolved air flotation (DAF) is an alternative water clarification process using micro air bubbles to attach and float flocculated particles and suspended matter, including slow settling colloids, algae, hydroxides, finely divided particulate matter and hydrocarbons to a basin's water surface.



## THE ACCESSORIES

DAF is achieved by dissolving air within an air "Saturator" under pressure (400–800 kPa), then reducing the air saturated solution's pressure to near atmospheric levels - releasing air from the solution at the lower reaches of (typically) a flotation tank or basin. Released air as micro-bubbles adhere to the suspended matter causing it to float to the water's surface.



## ISOLATING VALVES

The 4 port "recycle" air saturated water distribution manifold with quarter turn station isolators as well as the static saturator (pressure vessel) assembly are both heavy duty and solid.



Distributed by



**Australian Head Office**

PO BOX 465  
Blackburn, VIC 3130

Free Call: 1800 723 405

Ph: (03) 9845 0300

Fax: + 61 3 9845 0350

e-mail: [sales@pacificlab.com.au](mailto:sales@pacificlab.com.au)

Connect with us:



[www.pacificlab.com.au](http://www.pacificlab.com.au)