Solid-Liquid
Separation Technology

DAF FLOC15

FLOC15 is a next-generation Dissolved Air Flotation system, delivering a highly efficient solid-liquid separation for wastewater treatment.
Ideal for challenging waters with algae, high fats, oil and grease, suspended solids, and floating substances that are difficult to settle.

Compact, automated, and available anywhere, anytime.

AUTOMATED CHEMICAL DOSING

Integrated chemical dosing skid ensures stable coagulation and flocculation, maximising separation efficiency and process control.

HIGH SEPARATION EFFICIENCY

High-performance clarification of TSS, FOGs, and nutrient pollutants (N & P), ensuring cleaner water and stronger compliance.

ENVIRONMENTALLY SUSTAINABLE

DAF operation can be paired with natural coagulants, producing significant less sludge while reducing chemical use and improving dewaterability.

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FLOC15 tackles what conventional settlers can't – buoyant organics, high FOGs, algae, and nutrient loads. Compact and automated, it delivers high performance while reducing operato workload through advanced control systems

They can also be supplied as part of a complete, tailored, packaged treatment solution, including ancilliary equipment, such as static screens, dewatering systems, and equalisation and sludge tanks.

KEY FEATURES

DAF technology ensures conditions to achieve maximum particle removal rates (up to 99%)

Auto de-sludge system with continuous or timed surface skimming.

Multiparameter analyser with turbidity, UV254, pH, and PID control fully linked for maximum treatment efficiency (Optional)

Metal-free clarification with natural coagulants, less sludge and greener outcomes (optional)

All-in-one skid design for easy transport, unloading, and fast commissioning/ decommissioning.

Compact 1.5-tonne design, fork-liftable, cranelifatable, transportable, and ideal for tight spaces.

Inline mixer built in to maximise chemical efficiency and quickly changes to suit feed water.

Flow capacity: 0–20 m^3/h (up to 0.5 MLD). Designed for continuous 24/7 operation for optimal performance.

Compliant with safety requirements, includes SDS, safety protocol, and operation manual.

Maintain a safe site and avoid fees by exceeding Australian Standards for wastewater disposal.

Mechanical mixer in flocculation chamber, ensuring optimal reaction time and effective operation.

Built-in poly make-down skid, coagulation dosing pumps, and pH adjustment. Optimised chemical OPEX.

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TECHNICAL DATA

FLOC15 SPECIFICATIONS	
Nominal Design Flow Rate	20 m^3/hr
Operational Flow Rate	15 m^3/hr
DAF Body	AISI 304L stainless
Dimensions	5.44m (L) x 1.73m (W) x 1.83m (H)
Approx. Weight	1500 kg
Nominal/Max Power	7/10.6 kW 400V 3-Phase
Dry Shipping/Operating Weight	1.5/7 tonnes
Influent Connection	DN100 PN10 flange Alternate: 4" Bauer coupling
Treated Water Connection	DN100 PN16 flange (4")
Sludge Outlet and Drain points	DN100 PN16 flange (4")DN65 PN16 flange (2½")

DETAILED INFORMATION	
Application Rate	4.05 $m^3/m^2 \cdot h$; Floatation area: 3.7 m^2
Operating Pressure	6 bar (up to 10 max)
pH Control	pH Adjustment Pumps (acid & alkaline): Each 25 L/h with VSD
Coagulation and Flocculation	Polymer Preparation: 200 L/h (max 0.30% active or 3 g/L); Coagulant Pump: 25 L/h; Polymer Dosing Pump: 200 L/h; All with Variable Speed Drive
Power and Energy	Recirculation Pump: 5.5 kW Flocculator Mixer Drive: 0.18 kW Surface Scraper Drive: 0.18 kW Polymer Dosing Pump: 0.75 kW Control Panel: 400 V, 3-phase supply, HMI, PLC
Separation Efficiency	Total Suspended Solids: > 90% Fats, Oils and Grease: 99% Total Nitrogen: up to 55% (TBC) Total Phosphorous: up to 90% (TBC) Algae: >90%