
SAF

**Packaged
Wastewater
Treatment
Works**

Copa 
LIMITED

SAF

COPA SAF IS A HIGH PERFORMANCE

- ✓ Small footprint.
- ✓ Robust performance.
- ✓ Simple in operation.
- ✓ Few moving parts.
- ✓ Low maintenance.
- ✓ Rapid installation.
- ✓ High performance (up to 10/15/5) after settlement.
- ✓ Stainless steel tank and pipework options for long asset life.
- ✓ Operation and maintenance contracts available.
- ✓ Hire units available.



CB750 System, population equivalent 750.

APPLICATIONS

As mobile emergency response units.

To relieve biologically overloaded works.

Leachate treatment

Industrial waste treatment

To reduce trade effluent charges.

For pilot studies.



CB 1500 System, population equivalent 1500.

SUBMERGED AERATED BIOLOGICAL FILTER FOR THE TREATMENT OF WASTEWATER

SPECIFICATION

Tank Construction

6mm painted steel plate or 3mm
Grade 304 painted stainless steel.

Aeration

Fine bubble membrane diffusers.

Low maintenance duty/standby side channel
blowers.

Stainless steel air manifold plates and ring
main.



Removable air diffuser manifold assembly (above ground systems).

Control Panel

Duty/standby blower selection, Ammeters.

Externally mounted overload reset buttons.

Generator changeover switch.

Contacts fitted for future telemetry
connection.



Duty/standby blower layout in GRP kiosk.

Media

Corrugated rigid PVC.

Kiosk

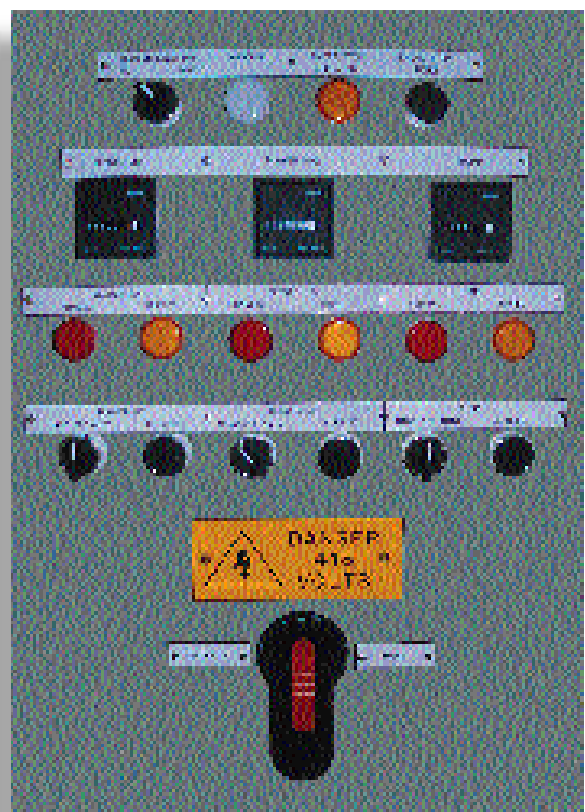
GRP with stainless steel louvres.

Pipework

Non corrosive ABS plastic
and stainless steel.

Plugs and Sockets

Fitted to blowers for safe and
immediate replacement.



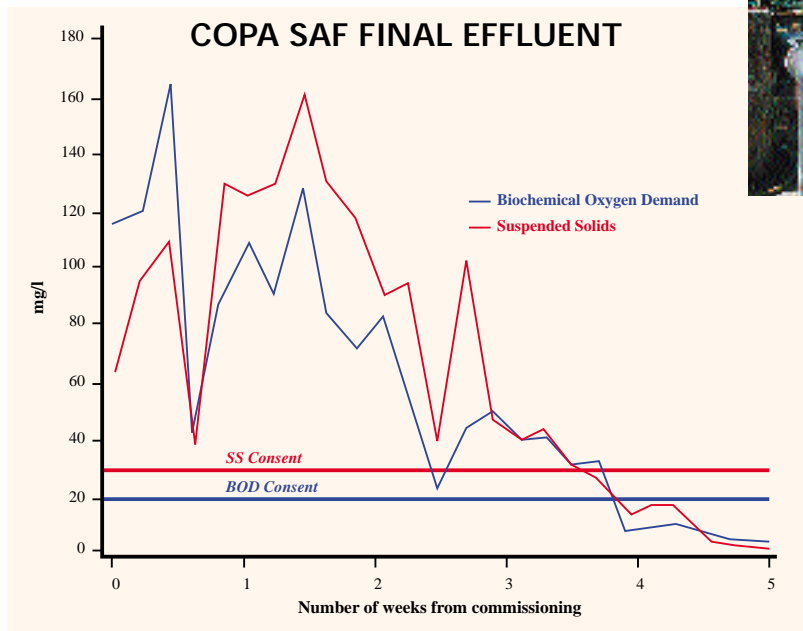
Standard control panel.

TREATMENT OF BOTH DOMESTIC AND INDUSTRIAL WASTES

PERFORMANCE

Copa SAF has a well proven performance record supported by over nine years of ongoing development and many installations throughout the waste water industry, both in the UK and overseas.

The graph below shows that Copa SAF has an immediate effect in reducing BOD and is likely to be 100% effective within 4 weeks of startup.



OPTIONAL EXTRAS

Stainless steel walkway,
handrails and ladders.

Stainless steel pipework
and valves for
increased asset life



SUBMERGED AERATED BIOLOGICAL FILTER

Copa PROCESS design packaged treatment works for population equivalents ranging from 100-1500 persons.

Numerous reference sites in the UK and overseas for the treatment of both domestic and industrial wastes.

Below or above ground options.

Complete turnkey packages available, including all civil works.

Operation and maintenance contracts available through our local area offices.



Above ground wastewater treatment works, population equivalent 150.



Below ground wastewater treatment works, population equivalent 1500.

DESIGN SCHEDULE

System	Approx Population Equivalent	BOD Capacity Kg/day	Max Flow L/sec	BAF™ Cell size (m)	No. of Cells	Footprint (inc. kiosk) L x B x H (m)	Power Req. kW
CB 100	100	4.2	1	1.5 sq.	1	3.2 x 2.1 x 3.0	1.1
CB 200	200	8.4	2	1.5 sq.	2	4.7 x 2.1 x 3.0	2
CB 300	300	12.6	3	1.5 sq.	3	6.2 x 2.1 x 3.0	3
CB 400	400	16.8	4	1.8 sq.	3	7.1 x 2.4 x 3.0	4
CB 500	500	21	5	1.5 sq.	4	7.7 x 2.1 x 3.6	4
CB 750	750	31.5	7.5	1.8 sq.	4	8.9 x 2.4 x 3.6	5.5
CB 1000	1000	42	10	1.5 sq.	2 x 4	7.7 x 4.2 x 3.6	7.5
CB 1500	1500	63	15	1.8 sq.	2 x 4	8.9 x 4.8 x 3.6	10

Notes:

Population equivalent assumes BOD crude sewage at 60 gms/head/day with 30% removal through primary settlement tanks giving a total load to SAF system of 42 gms/head/day.



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