



WATERTECHNIK
engineered wastewater solutions

DISSOLVED AIR FLOTATION DAF SYSTEM

ALLOWS QUICK DISCHARGE COMPLIANCE
LOCAL SUPPORT | SIMPLE INSTALLATION
PLUG AND PLAY | COMPACT STRUCTURE

We have developed an innovative “Modular DAF” solution.
It allows for quick and simple site installation and easy process set up.
This means more cost effective and time efficient projects for our customers.

www.watertecnik.com



▷ Features & Benefits

WATER TECNIK DAF systems have been designed specifically for treating industrial wastewater which is heavily loaded with fats, oil, grease and suspended solids. These require a significant amount of free surface area for flotation and eventual separation.

Having an open tank design with no lamella plates within our DAF system means that there is nothing for fats or various sticky contaminants to foul and eventually block. We also use

open tank chemical mixing tanks, which allow the plant operator to easily inspect the various chemical reactions. Our systems are particularly well suited for effectively treating effluent from the food and drink industry.

Water Teknik DAF systems are built from 304 stainless steel as standard, with the option of 316 construction as an option.



Picture shows our 5m³/h DAF being lowered into position

Available in the following standard throughput capacity's:

2m³/hour

10m³/hour

50m³/hour

100m³/hour

5m³/hour

20m³/hour

75m³/hour

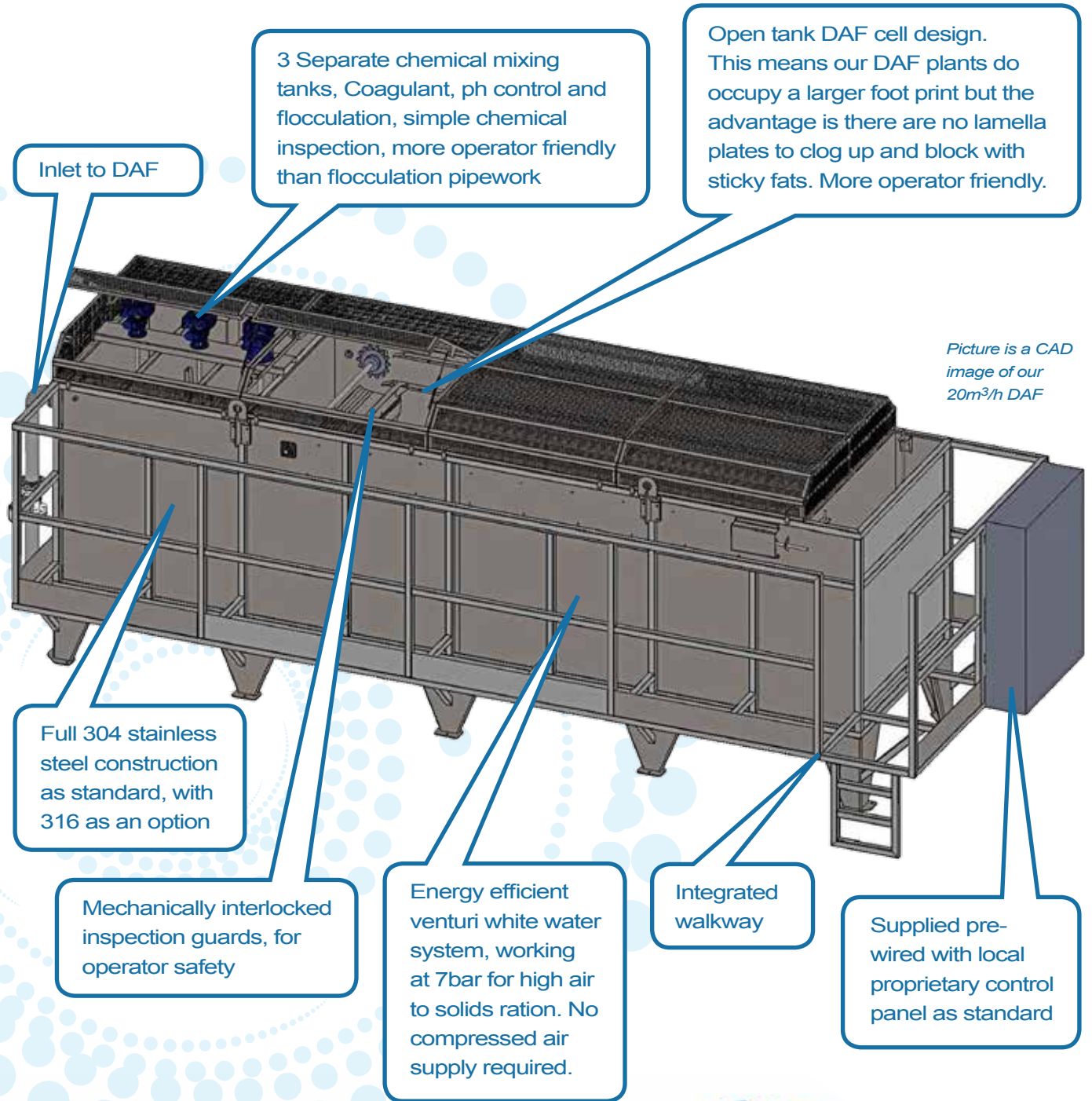
125m³/hour

maximum solids loading of up to 2,500mg/L TSS for each flow rate.

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▷ DAF System Features



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▷ Features & Benefits



Picture shows the scraper mechanism on our 2m³/h DAF system.

Full stainless construction for durability.

- Are you disposing of trade effluent to sewer, rivers or other water ways?
- Are you exceeding your Trade effluent consent to discharge limits?
- Is your local authority or utility provider issuing warning letters about non-compliance?
- Is your existing DAF overloaded due to years of increased production and effluent volumes?
- Perhaps your effluent discharge is within consent limits, but you would like to improve the discharge quality, to ensure lower charges against the Mogden formula?

The food and drink industry is especially prone to high levels of fats, oils and grease (FOG) in trade effluent discharges. This results in expensive effluent bills and very often fines due to breaches of consent.

WATER TECHNIK CAN HELP YOUR COMPANY WITH THESE ISSUES.

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▷ Features & Benefits



Results from recent installation

73% reduction in COD
80% reduction in SS
96% reduction in FOG
(Fats, Oil and Grease)
650mg/L to 26 mg/L

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▷ Supply options - Skid Mounted, Stand Alone or Containerised



32a 3PHASE NEUTRAL
AND EARTH SUPPLY

CONTROL PANEL

Prewired to
proprietary
control panel

Can be
supplied with
skid mounted
feed pump,
sludge pump,
poly make up
and chemical
dosing as
options.

Containerised system
- fitted out with lighting,
heating & ventilation

System comes prewired
and piped so that site
installation process is
plug & play. Available
for 2m³/hr and 5m³/hr
systems.



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► Features & Benefits

The unit is plug and play. The connections between the DAF system container and the site it is to be installed on, being as follows :

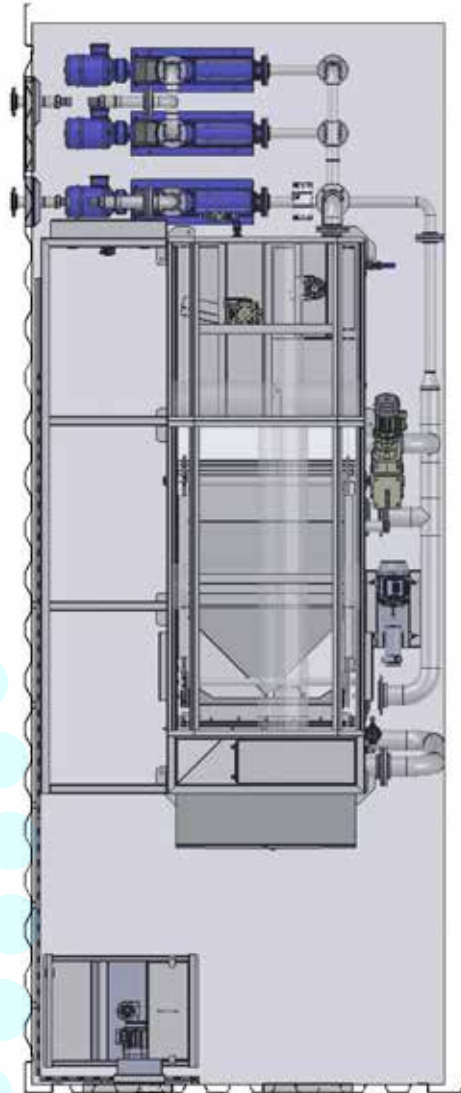
ELECTRICAL	32A / 3 phase neutral and earth electrical supply
WATER	Potable water ¾" mains piped supply for polymer makeup
EFFLUENT IN	Raw effluent inlet connection from balance tank - DN80 pn16 flange
SLUDGE OUT	Sludge outlet connection to sludge tank - DN80 pn16 flange
TREATED OUT	Treated effluent connection to sewer/further processing - DN100 pn16 flange

We can deliver, install, commission and maintain your entire system. Contact us for details

5m³/hr or 10m³/hr Containerised DAF treatment system :

- 1 No. 5m³/hr or 10m³/hr 304 stainless steel constructed pre-wired DAF system.
- Integrated chemical mixing system. 5m³/hr has tank mixing system; 10m³/hr DAF has flocculation pipe mixing system fitted as standard.
- Automatic continuous liquid poly makeup and dosing unit.
- PH control system with automatically controlled Acid and caustic dosing pumps.
- Coagulant dosing pump.
- 1 No. 1.5kw progressive cavity type DAF feed pumps. VSD controlled to monitor flow. (DAF feed pump duty/standby optional).
- 1 No. DAF feed in-line magnetic flowmeter.
- 1 No. 1.5kw progressive cavity type DAF sludge pump.
- System Control Panel with HMI and PLC control system.

Control panel can be upgraded to control all site equipment such as balance tank mixers, etc...
Additional costs will be applicable dependant on extent of requirements



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Modular DAF System



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- ▷ **Containerised DAF installed inside a 20Ft open sided container.**
- ▷ **Fitted out with lighting, heating & ventilation.**
- ▷ **System comes prewired so that site installation process is plug and play.**



▷ **Our Promise**

At Water Teknik we are dedicated to providing all our customers with the highest service standards possible, and strive to exceed customer expectations with each project delivered.



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