



The Hydroflux HyDAF HD range of DAF systems offer superior performance in terms of wastewater quality and sludge dryness.

- Proven counter-current scraping system providing improved performance and drier sludge.
- Ability to handle very high solids or grease loadings using one of a range of select recycle systems to provide guaranteed air to solids ratios in all cases.
- Removal of heavy and neutral density particles whilst producing two distinct, easily separable phases – the treated water and surface sludge.
- Power and air consumption are very low, maintenance is infrequent and the volume of sludge generated is considerably reduced due to the system’s inherent sludge thickening nature.
- Dry solids concentrations in the sludge can exceed 10 percent in certain applications, depending on the chemical program used.

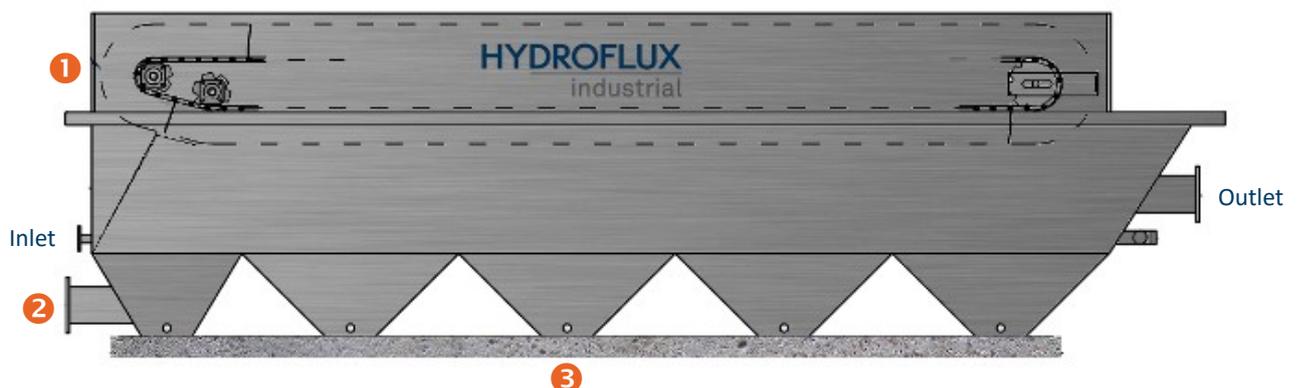
1) The HyDAF Scraper is a heavy duty, low maintenance, roller chain system with multiple blades that minimises the water content in the removed float.

The scraper is fully enclosed to facilitate odour extraction and control and contains all wash-water overspray. It is designed with a completely clean and smooth exterior. Externally mounted bearings that allow maintenance without the removal of guards.

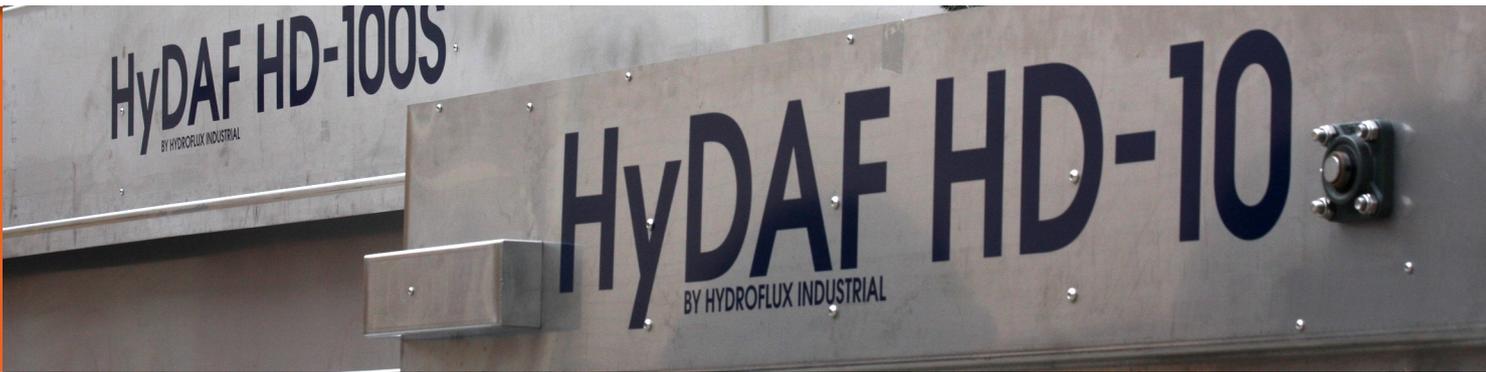
2) A specially designed hex-mixer installed at the inlet of the HyDAF system optimises contact of the dissolved air

stream with the wastewater to improve bubble attraction and enhance performance compared to traditional units. Sludge is scraped from the surface into the sludge hopper from where it is typically pumped to a sludge storage tank for dewatering or disposal.

3) The base of the HyDAF is designed with hoppers to facilitate settled sludge removal without fully draining the system.



DIMENSIONS

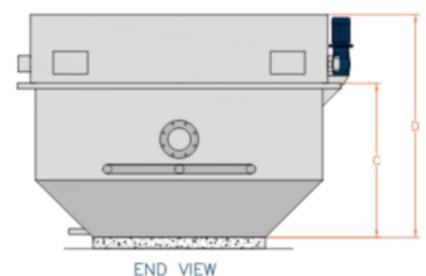
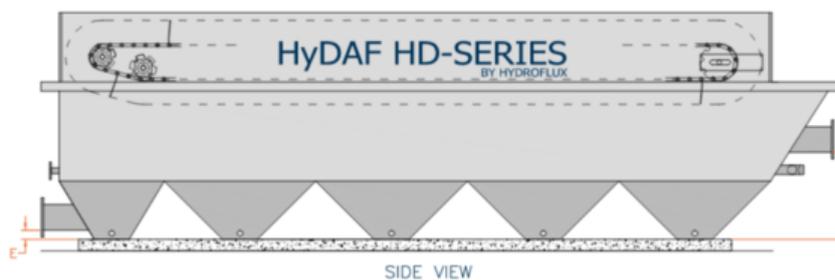
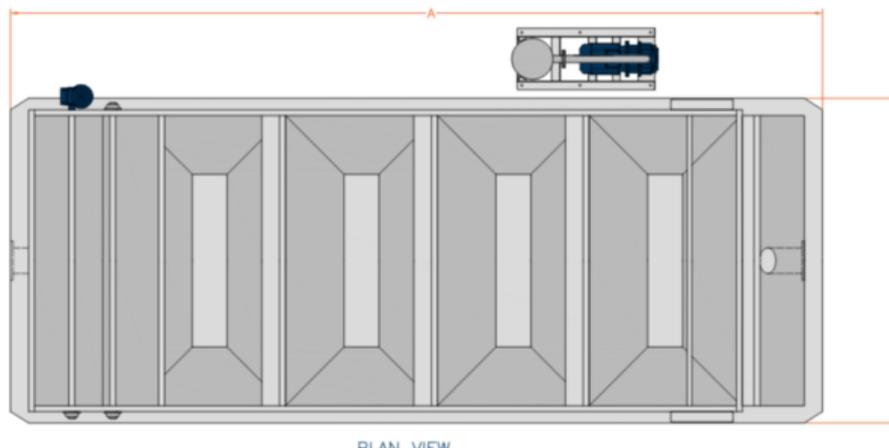


Model	Capacity (kL/hr)	L (mm)	B (mm)	H (mm)
HD-10	5-10	3000	1400	1600
HD-20	15-25	4000	1800	1600
HD-35	30-40	4350	2400	1950
HD-50	45-60	5650	2800	1950
HD-75	70-90	6950	2800	1950
HD-100	90-110	8450	2900	2050
HD-200	150-220	9800	3900	2450
HD-300	250-350	11800	4900	2450

*Treatment capacity depends on solid load and dissolved air stream flow*

The HyDAF system is supplied as a pre-packaged plant to suit flows up to 300 kL/hr. All units are rectangular and fitted with bottom hoppers. The dimensions of the system are designed for economical fabrication and when matched with a suitable dissolved air saturation system can treat a wide range of flows.

GENERAL ARRANGEMENT





## MATERIALS

Item	Materials
DAF Body	304 Stainless steel
Scraper Frame / guard	304 Stainless steel
Scrapers	304 Stainless steel c/w Nitrile Rubber Blades
Scraper Chain / sprockets	Mild steel
Dissolved Air Contactor (DAC)	304 Stainless steel
Recycle Pump	Ebara, Long Coupled Pump
DAC Pressure Gauge	Saturator Pressure Gauge; 0 – 1000 kPa
Pressure Reducing Valve	Proprietary ss air actuated self-cleaning valve
Scraper Motor	Rossi
Emergency Stop Lanyards (both sides)	Two Telemechanique
Drain Valves	Full bore Stainless Steel
Recycle Check Valve	Stainless Steel
Air Control Panel	Proprietary Air Control System

*The above are standard materials of construction and specifications. Alternatives are possible. Please contact your Hydroflux representative to discuss options*

## AIR SATURATION

The Hydroflux dissolved air system is a non blocking continuous process using compressed air and treated water taken from the DAF outlet.

The air saturator does not contain any moving parts or instruments

4 saturator designs are available to match with a HyDAF system to ensure optimisation of air to solids ratio and hydraulic loading.

Saturator Model	Flow kL/hr	kW
100	5 –10	4 –5.5
150	10-20	5.5-9.3
200	20-30	9.3—11
250	30 –45	11-15

*Twin units are used when larger flows are required.*

