

# R5™ DAF

Pre-Engineered DAF Packages



**WESTECH®**

# Dissolved Air Flotation (DAF) System Pre-Engineered for Your Convenience



### Modular Design -

For a "mix and match" approach that fits your needs

### Quick Delivery -

We start building it the day you order it

### Plug and Play -

Simply connect the unit to your system's piping and wiring, and it's ready to go

## The flexible wastewater treatment solution that is ready when you need it.

Our pre-engineered DAF units come in several tank sizes and recycle rates, allowing our process experts to optimize both the tank area and recycle rate to fit our customer's specific needs. We have standardized these around common processes, flow rates, and recycle rates, to provide a custom solution at an affordable price. The main components are skid mounted with the DAF unit to minimize installation requirements. They are also customizable with several options, including screw conveyor, standby pump, and material of construction.

## Industries

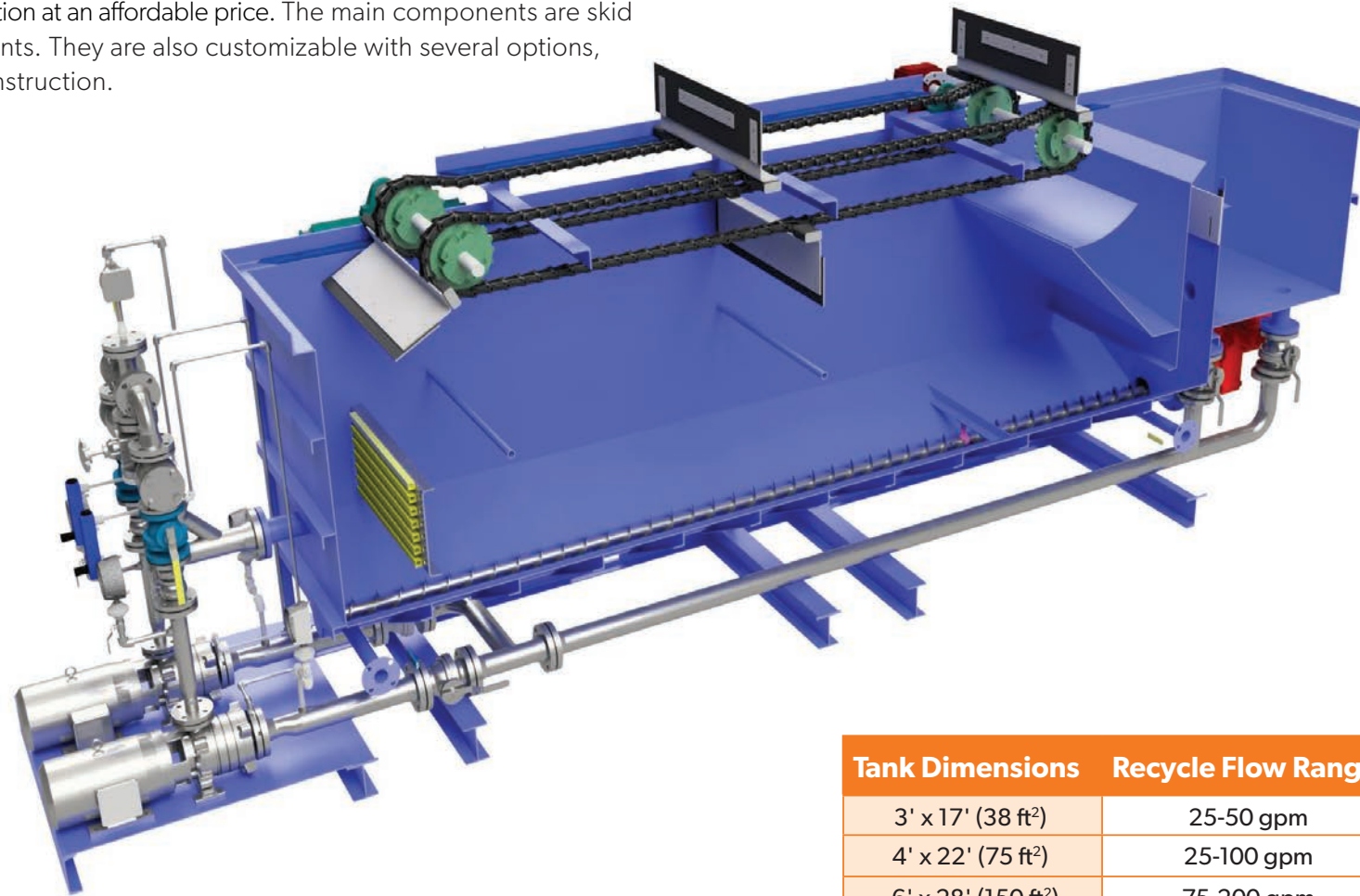
Here are some of the types of operations that can become more cost-effective and efficient by using WesTech's pre-engineered R5 DAF.

- Pulp Processors and Paper Manufacturers
- Municipal Water and Wastewater
- Dairies
- Food Processing Companies
- Refineries
- Breweries and Wineries
- Commercial and Industrial Laundries

## Applications

Dissolved Air Flotation (DAF) is ideal in clarifying water and wastewater where the specific gravity of suspended solids or contaminants is close to or less than 1.0. These include oils, grease, algae, and other low density solids.

- Wastewater Clarification
- Sludge Thickening
- Product Recovery
- Filter Backwash Recovery
- Algae Removal



## Why Buy Pre-Engineered

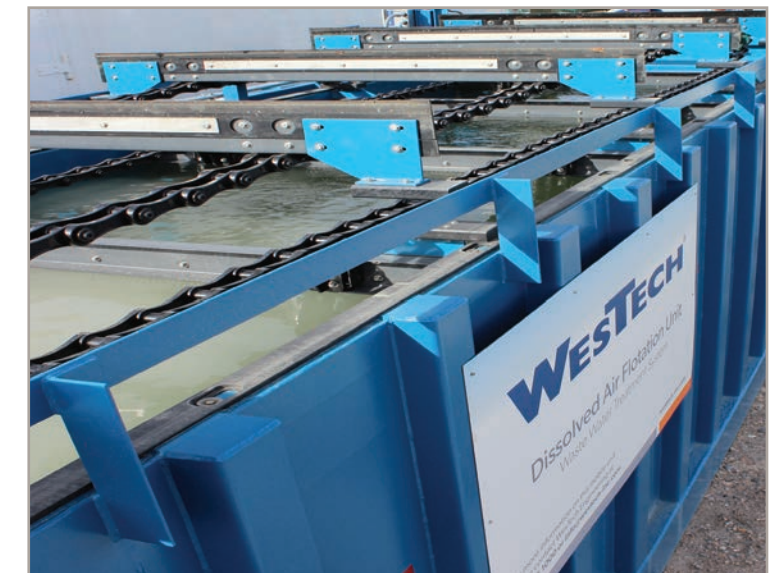
- To accommodate short lead times
- Lower up-front cost compared to custom unit
- In emergency situations, to get operations back online ASAP
- To avoid municipal wastewater treatment charges

## Optional Additions

- Screw Conveyor
- 304 Stainless Steel
- 316 Stainless Steel
- Standby Recycle Pump
- Control Panel AC Unit

## Example Cost Savings Analysis

No Treatment		R5 Treated Effluent	
Feed Rate	125 gpm	Feed Rate	125 gpm
	8,788,600 ft <sup>3</sup> /year		8,788,600 ft <sup>3</sup> /year
<b>Effluent Constituents</b>			
BOD	1700mg/L	BOD	1250 mg/L
TSS	700 mg/L	TSS	150 mg/L
<b>Municipal Wastewater Penalty Costs</b>			
Flow Rate	\$ 1.24 /100 ft <sup>3</sup> water	Flow Rate	\$ 1.24 /100ft <sup>3</sup> water
BOD	\$ 3.13 /100 ft <sup>3</sup> water	BOD	\$ 2.54 /100 ft <sup>3</sup> water
TSS	\$ 0.93 /100 ft <sup>3</sup> water	TSS	\$ 0.27 /100 ft <sup>3</sup> water
Total	\$ 5.30 /100 ft <sup>3</sup> water	Total	\$ 4.05 /100 ft <sup>3</sup> water
<b>Utility Costs</b>			
		Recycle Pump (20 hp) \$10,551/year	
<b>Total Yearly Costs</b>			
\$ 465,795/year		\$ 366,489 /year	
		<b>Yearly Cost Saving \$ 99,306 /year</b>	



Tank Dimensions	Recycle Flow Range
3' x 17' (38 ft <sup>2</sup> )	25-50 gpm
4' x 22' (75 ft <sup>2</sup> )	25-100 gpm
6' x 28' (150 ft <sup>2</sup> )	75-200 gpm
7' x 45' (275 ft <sup>2</sup> )	75-375 gpm

**The R5 DAF units offer one more way for customers to benefit from WesTech's 40+ years of experience and exceptional customer service.**





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