



evoqua
WATER TECHNOLOGIES



RENTAL RT SERIES DAF DISSOLVED AIR FLOTATION SYSTEM

GENERAL DESCRIPTION

Dissolved Air Flotation (DAF) is a proven and effective physical/chemical technology for treating a variety of industrial and municipal process and wastewater streams. DAF systems are commonly used to meet a variety of treatment goals including:

- Product recovery and reuse
- Pretreatment to meet sewer discharge limits
- Pretreatment to reduce loading on downstream biological treatment systems
- Polishing of biological treatment effluent
- Thickening of biosolids

Evoqua's RT Rental DAF systems are designed to remove total suspended solids (TSS), biochemical oxygen demand (BOD), and fats, oils and greases (FOG) from a wastewater stream. Contaminants are removed through the use of a dissolved air-in-water solution produced by injecting air under pressure into a recycle stream of clarified DAF effluent. This recycle stream is then combined and mixed with incoming wastewater in an internal contact chamber where the dissolved air comes out of solution in the form of micron sized bubbles that

attach to the contaminants. The bubbles and contaminants rise to the surface and form a floating bed of material that is removed by a surface skimmer into an internal hopper for further handling, while heavier solids sink and are removed by the bottom auger.

RT RENTAL DAF FEATURES

Evoqua offers two sizes of rental DAFs. The RT-100 is designed to hydraulically handle flows to 400 gpm, and the RT-240 is designed to handle hydraulic flows to 1,000 gpm.

Leases are available for any duration of three months or more.

RT Series packaged DAF systems have incorporated more than thirty years of continuous improvements with multiple installations in a variety of applications.

RT systems provide unique standard features including:

- Complete, skid-mounted design for quick, easy installation
- Rugged 304/316 SS tank design that will not flex and is corrosion resistant
- Integral flocculation tube that is equipped with three chemical injection ports and is designed to provide optimal mixing of coagulant and flocculant chemicals
- Safe, simple, reliable design and operation provides superior performance without the use of high maintenance, labor intensive plate-packs that can foul or collapse
- Completely prewired NEMA 4X control cabinet requiring only a single drop of 460V/3 ph power to operate
- An industry-leading HELLBENDER® whitewater system that is both efficient, and eliminates the need for an external air source
- Variable speed skimmer drive



- Large, internal float hopper minimizes pumping requirement
- DAF float hopper is equipped with a float level sensor to enable an optional sludge pump to be started and stopped automatically
- Automated settled solids auger
- Quality drive and pump components for long-term reliability

SPECIFICATIONS

	RT-100A	RT-240A
Overall Dimensions (L x W x H)	18'8" x 8'6" x 8'2"	31'1" x 10'5" x 9'8"
Shipping Weight	7,000 lbs.	12,500 lbs.
Operating Weight	33,300 lbs.	83,300 lbs.
Effluent Water	200 gpm, nominal / 400 gpm max.	480 gpm, nominal / 1,000 gpm max.
Pressure	Gravity	Gravity
Electrical Requirements	460V / 3 phase / 60Hz / 31 FLA	460V / 3 phase / 60 Hz / 44.6 FLA
Optional 3HP-10HP pump depending on sludge volume and characteristics, as well as customer preferences.		
Service Connections - Inlet / Outlet / Float	8" / 8" / 6" - 150# Flange	12" / 12" / 6" - 150# Flange
Settled Solids Discharge	4" Flange	6" Flange
Recycle Pump	Hellbender® HB-90, 15 HP	Hellbender HP-150, 20 HP
Active Surface Area	101 ft ²	239 ft ²
Nominal Water Volume	2,400 gallons	8,450 gallons
Float Hopper Capacity	170 gallons	360 gallons

Environmental Treatment Systems™

an EVOQUA brand

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