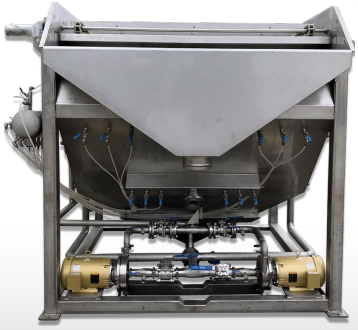
Made in America

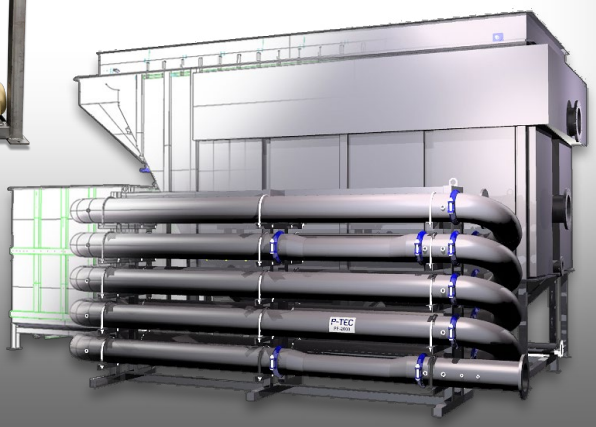
TRUSTED OVER 20 YEARS

STRONG as STEEL

P-TEC DAF Systems

DAF Manufacturing, DAF Rentals, DAF Used Sales and DAF Complete Systems





Advanced Flotation Systems for Water Treatment

Our Story

Since the early 1990's, the members of P-TEC have been entrenched in the DAF business from every possible angle. After over a decade of various careers within the DAF industry, the founders of P-TEC came together in the early 2000's to make the *"Best of the Best"* when it comes to Dissolved Air Flotation Machinery. This combination of expertise in Innovative Equipment Design, Advanced Manufacturing Processes, Detailed Project Management and Ongoing Service/Training is still the foundation of how P-TEC operates.

"Our philosophy is really simple – Build the machine that we would want to buy if it were our own money on the line."

–Chris Windsor, President

System Design

P-TEC utilizes proven DAF concepts and designs combined with innovative features that have yielded cost-effective, heavy duty, high performance systems that span from 5 GPM to over 3,000 GPM in a single DAF unit.

System Manufacturing

P-TEC System Manufacturing is definitely top-of-the-line, utilizing Laser cutting as one of the most cost effective and versatile technologies with increased flexibility and amazing accuracy. This combined with CNC braking, CNC punching and some of the most talented stainless steel welders in the business, and you get a precision-made system that is second-to-none.

Systems Operation and Ongoing Support

The support staff at P-TEC has decades of experience in the design, sizing and operational aspects of several lines of DAF equipment. P-TEC continues to service and supply parts for existing DAF systems that were supplied to many customers prior to the development of the P-TEC line of DAF systems. P-TEC has the expertise to not only produce the highest quality equipment available in the industry, but also to make sure it is properly applied and works as intended for many years to come.

We'll make your next DAF purchase an easy experience with outstanding results!

www.ptecdaf.com 800-450-0398

P-TEC HR Series MacroDAF™

100 – 3000 GPM

P-TEC HR Series MacroDAF™ systems are specifically designed utilizing inclined plate technology and can be used to treat waste streams in both primary and secondary applications. The HR Series units are compact in size relative to the amount of flow they can treat. Designed to handle both floating and settling solids effectively, the HR series DAF is a very versatile machine for many different applications.

The inclined plate design of the HR Series allows for the utilization of effective surface area to significantly increase the hydraulic capacity of these machines while preventing solids build-up often found in systems with plates or media. Coupled with our P-TEC Skimmer System, settled solids removal system is simple with low-to-no maintenance. Field tested, reliable, and heavy-duty, the HR Series gets the job done right, every time.

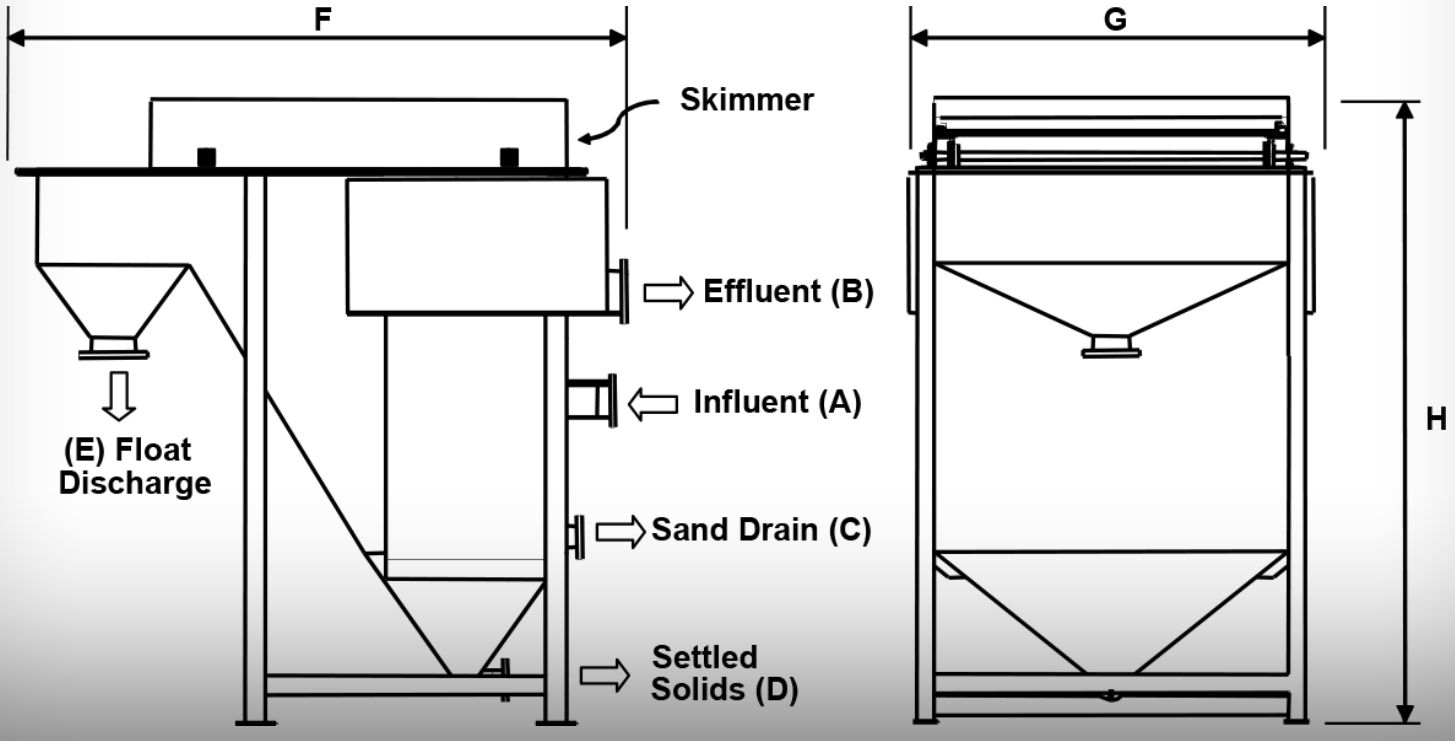
www.ptecdaf.com 800-450-0398

HR Series MacroDAF™ Models

100 – 3000 GPM

Description	Model Numbers									
	HR-100	HR-200	HR-400	HR-600	HR-800	HR-1200	HR-1600	HR-2000	HR-2400	HR-3000
Capacity (GPM)*	100	200	400	600	800	1200	1600	2000	2400	3000
Free Surface ($ft.^2$)	19	38	64	90	92	117	143	168	216	260
Effective Surf. ($ft.^2$)	145	290	580	870	1444	2166	2888	3610	4332	5412
Overflow ($GPM/ft.^2$)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
A–Influent (Dia. In.)	4	6	6	8	10	12	14	16	16	18
B–Effluent (Dia. In.)	6	8	10	12	12	14	14	18	18	20
C–Sand (Dia. In.)	2	4	4	4	4	4	4	4	6	6
D–Settled (Dia. In.)	4	4	6	6	6	6	6	6	6	6
E–Dischg. (Dia. In.)	6	8	10	10	10	10	10	10	12	12
F–Length (Ft./In.)	10'0"	10'0"	13'6"	17'0"	18'0"	21'6"	25'0"	29'6"	25'0"	30'2"
G–Width (Ft./In.)	4'6"	8'0"	8'0"	8'0"	8'5"	8'5"	8'5"	9'6"	12'0"	13'2"
H–Height (Ft./In.)	10'10"	10'10"	10'10"	10'10"	16'0"	16'0"	16'0"	16'0"	16'0"	16'0"

**Capacities may be significantly decreased with extremely high solids loading.*

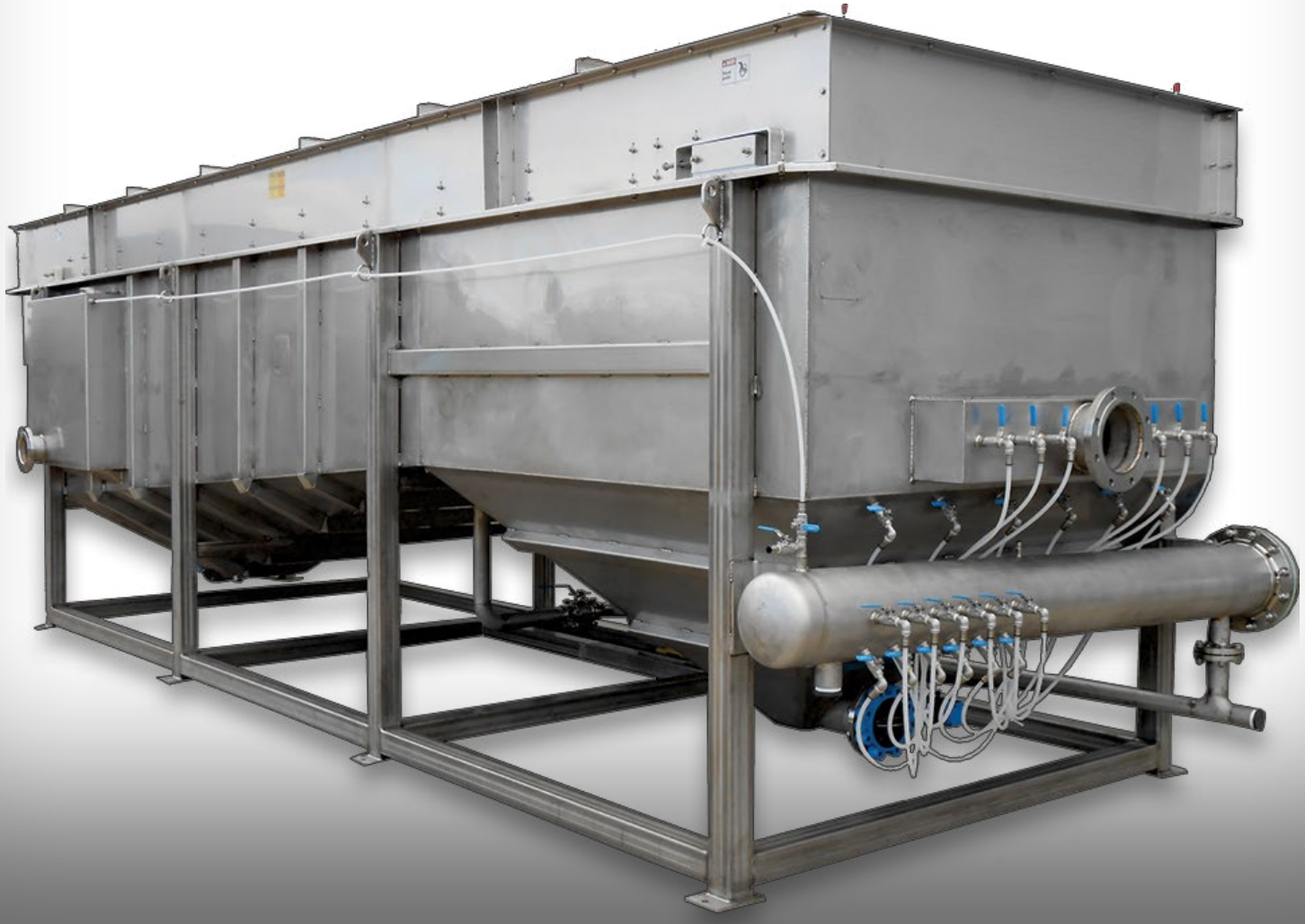


P-TEC HS Series MacroDAF™

90 – 1200 GPM

P-TEC HS Series MacroDAF™ systems are specifically designed utilizing an open-tank design and can be used to treat waste streams in both primary and secondary applications. The HS Series units are large in size relative to their HR Series counterparts. This increased size allows for large Free Surface Areas to handle very high solids loadings. Designed to handle both floating and settling solids effectively, the HS series DAF is a versatile machine for many different applications.

The HS Series utilizes the unique P-TEC Skimmer System that is known for reliability and low maintenance. The settled solids removal system is simple with low-to-no maintenance. These characteristics, heavy-duty design, and treatment efficiencies, allows these machines to be the safest and best place to spend your capital when considering DAF for your application.

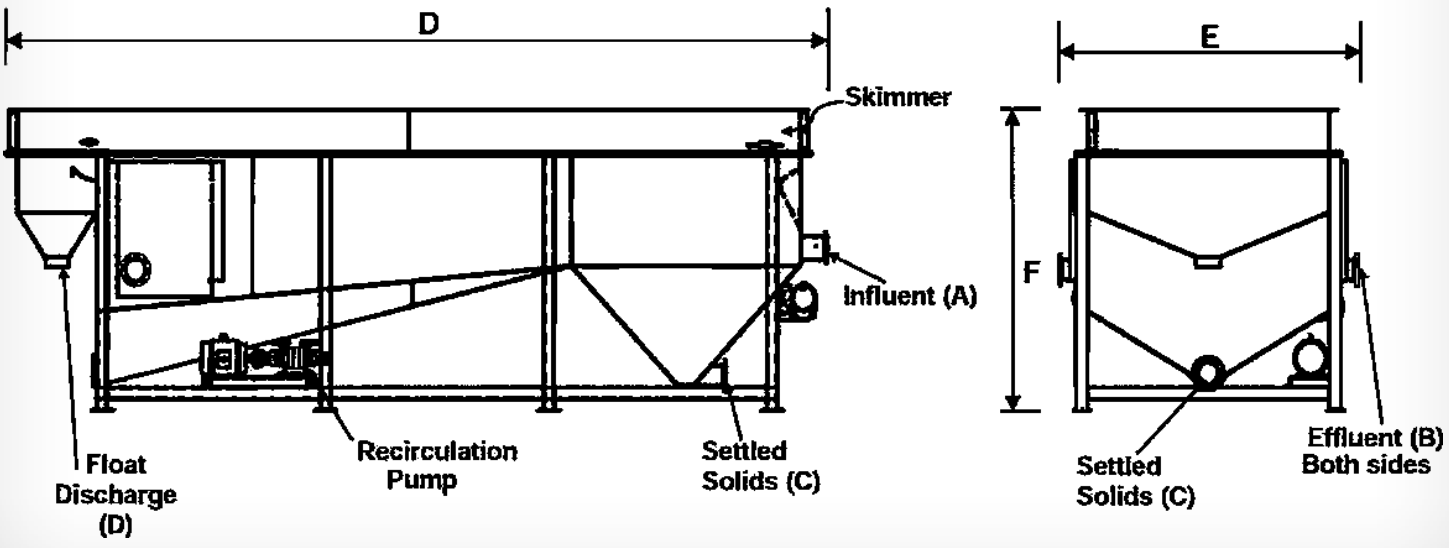


HS Series MacroDAF™ Models

90 – 1200 GPM

Description	Model Numbers						
	HS-90	HS-175	HS-275	HS-400	HS-600	HS-900	HS-1200
Capacity (GPM)*	90	175	275	400	600	900	1200
Surface Area ($ft.^2$)	46	95	152	228	336	455	604
Overflow ($GPM/ft.^2$)	<2	<2	<2	<2	<2	<2	<2
A–Influent (Dia. In.)	4	6	6	6	8	10	12
B–Effluent (Dia. In.)	6	8	10	10	10	12	14
C–Settled (Dia. In.)	6	6	6	6	6	6	6
D–Dischg. (Dia. In.)	8	8	8	8	10	10	10
D–Length (Ft./In.)	10'9"	17'9"	25'9"	27'9"	37'9"	48'9"	62'9"
E–Width (Ft./In.)	9'0"	9'0"	9'0"	12'0"	12'0"	12'0"	12'0"
F–Height (Ft./In.)	8'3"	8'3"	8'3"	10'8"	10'8"	10'8"	10'8"

**Capacities may be significantly decreased with extremely high solids loading.*



P-TEC MD Series MicroDAF™

5 – 70 GPM

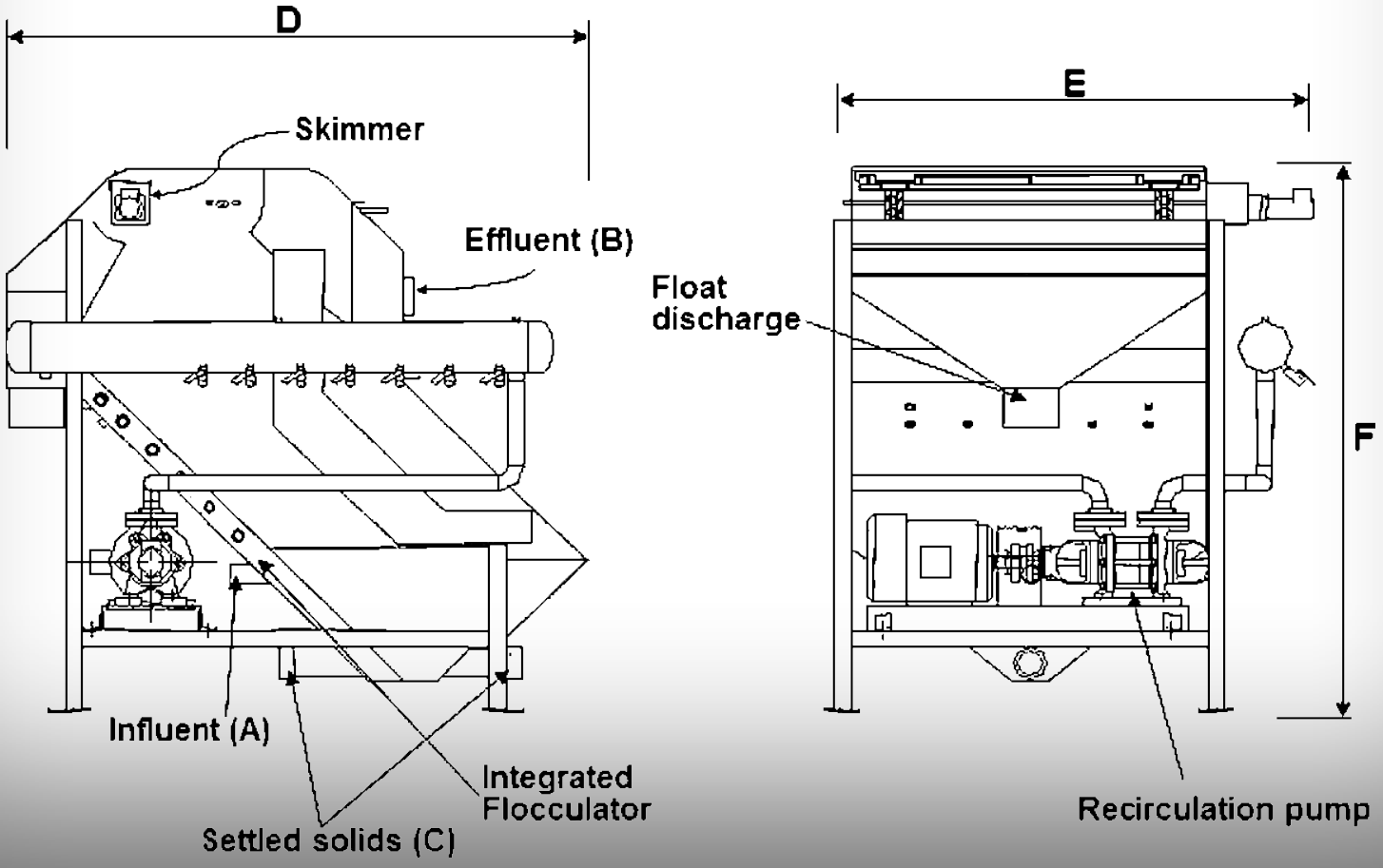
P-TEC MD Series MicroDAF™ systems have been deployed around the world for over 20 years and are still unique in their design. The MD Series MicroDAF™ is specifically designed utilizing a tilted, open-tank design and can be used to treat waste streams in both primary and secondary applications. Combining characteristics from both the HR and HS Series designs, the MD Series is ideally suited for applications with smaller flow rates. Designed to handle both floating and settling solids effectively, the MD Series DAF is a very versatile machine for many different applications.

The unique tank design of these machines allows for a very cost-effective manufacturing process which is a challenge for small DAF designs. When you have a small flow rate and small budget, the MD Series MicroDAFs are the way to go!

MD Series MicroDAF™ Models

5 – 70 GPM

Description	Model Numbers				
	24-24	24-42	36-42	36-84	48-84
Capacity (GPM)*	10	20	28	55	70
Free Surface ($ft.^2$)	2.3	4.5	7.8	12.2	19
Effective Surf. ($ft.^2$)	5.2	10.2	10.9	24.5	29
Overflow ($GPM/ft.^2$)	<1.5	<1.5	<1.5	<1.5	<1.5
A–Influent (Dia. In.)	1.5	1.5	2	3	3
B–Effluent (Dia. In.)	4	4	4	6	6
C–Settled (Dia. In.)	3	3	3	3	3
D–Length (In.)	60"	68"	84"	100"	144"
E–Width (In.)	40"	58"	63"	104"	104"
F–Height (In.)	68"	68"	75"	95"	102"



P-TEC PF Series Flocculator™

20 – 3000 GPM

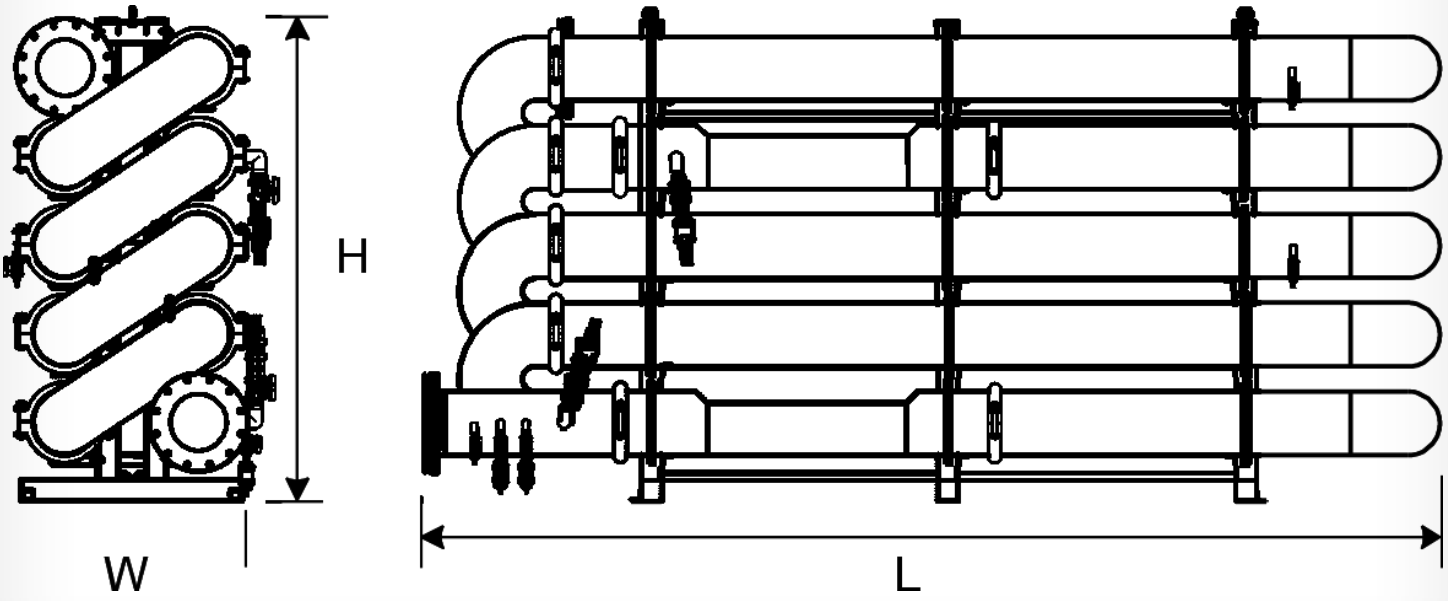
P-TEC PF Series Flocculators™ are designed for effective chemical addition and monitoring of the Floc building process ahead of any of the P-TEC DAF systems. This simple pipe based design allows for versatility and low to no maintenance.

Standard materials of construction are SCH 80 PVC with alternative materials available for special applications. With over 25 years of experience with Pipe Flocculators, P-TEC also knows when this technology is not the best method for the Floc building process and therefore also offers conventional tanks and mixers as well.

PF Series Flocculator™ Models

20 – 3000 GPM

	Flow Rate in GPM			Dims. in Inches				Weight in lbs.	
PF#	Min	Nom	Max	L	W	H	Flg	Dry	Full
50	28	50	74	167	18	40	2	611	902
100	65	100	170	151	20	46	3	935	1614
250	110	250	290	220	24	48	4	1327	2507
500	250	500	640	203	28	58	6	2013	4491
800	425	800	1100	203	32	68	8	2899	7320
1200	670	1200	1720	203	36	76	10	3926	10662
1600	940	1600	2450	241	42	94	12	5258	15151
2000	1100	2000	3000	215	46	104	14	5927	17830
3000	1500	3000	4000	246	50	114	16	7437	25007

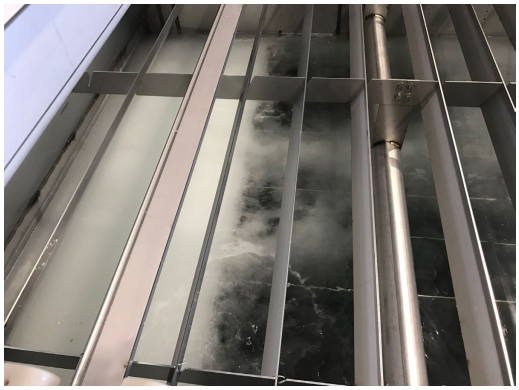


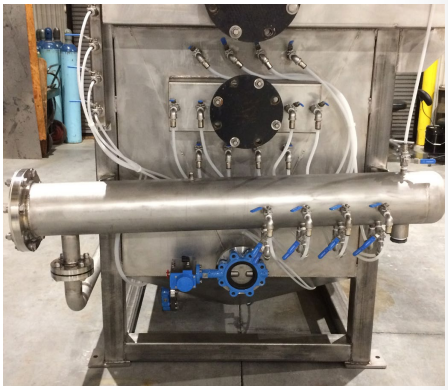
DAF Recirculation / Aeration System Retrofits

The Problem: In many cases, existing Dissolved Air Flotation systems or skimmer tanks are not operating properly due to inadequate Aeration Systems. This may be due to worn out equipment, improperly sized equipment or poor aeration design. Often times, the actual tank or vessel is in fairly good shape but the flotation process is not functioning efficiently.

Our Solution: P-TEC Aeration System Retrofit equipment allows for the conversion of such tanks into efficient DAF systems. In some cases, the actual design of the existing tank may limit the system from performing as well as a newly designed system. In those situations, the benefits still outweigh the costs of a complete replacement.

System Description: P-TEC Aeration System Retrofit equipment is based on the same Aeration Technology that we use on our pre-manufactured DAF systems. This proven partial flow recirculation system has been in use for over twenty years and in many types of applications. The components of the system generally include one or more stainless steel, aeration/recycle pumps, aeration piping, aeration header, aeration valves, pneumatic controls and electrical control panel.





How the System Works: A portion of the treated water from the DAF tank is taken into the recycle pump(s) and pressurized to approximately 90-100 psi. A metered quantity of air is injected into the high pressure side of the recirculation aeration pump. The air is blended and dissolved into this recycle stream under pressure. This method of air dissolving is very efficient and allows for high saturation of air at a given flow, pressure and temperature. This recycle flow containing dissolved air is piped to the Aeration Header. The Aeration Header is equipped with multiple Aeration Valves that allow for the depressurization of the recycle flow into multiple Aeration Lines. This controlled depressurization creates millions of uniformly sized, micro-bubbles (30-50 micron) that are then distributed into the raw influent flow and/or the DAF tank. These micro-bubbles attach themselves to particles that are the same size or larger and gently float them to the surface of the tank.

P-TEC DAF Systems

Our Rental DAF Systems

We offer Rental DAF systems for Emergencies, Seasonal Operations or specialized needs:

- Rental DAF Systems are designed for quick and easy installation
- Rental DAF Systems are typically fully assembled at delivery
- Electrical/Pneumatic Control Panels typically premounted and wired for easy setup
- Rental Costs may be credited back to the purchase of new or used equipment
- Start-up services and operator training are available for immediate needs

Contact P-TEC today for current availability and Rental Agreement Terms!

www.ptecdaf.com 800-450-0398